**Table 1. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**New England**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | |
| Distillate Fuel | 0.275 | 0.295 | 0.282 | 0.304 | 0.305 | 0.307 | 0.310 | 0.311 | 0.311 | 0.310 | 0.310 | 0.309 | 0.309 |
| Kerosene | 0.013 | 0.014 | 0.011 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 |
| Liquefied Petroleum Gas | 0.028 | 0.026 | 0.027 | 0.025 | 0.025 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 |
| Petroleum Subtotal | 0.316 | 0.335 | 0.320 | 0.342 | 0.342 | 0.344 | 0.347 | 0.347 | 0.348 | 0.347 | 0.346 | 0.346 | 0.346 |
| Natural Gas | 0.181 | 0.173 | 0.172 | 0.183 | 0.185 | 0.186 | 0.187 | 0.187 | 0.188 | 0.187 | 0.187 | 0.188 | 0.188 |
| Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Renewable Energy 1/ | 0.033 | 0.031 | 0.031 | 0.033 | 0.033 | 0.033 | 0.033 | 0.034 | 0.034 | 0.034 | 0.034 | 0.034 | 0.035 |
| Electricity | 0.140 | 0.141 | 0.144 | 0.149 | 0.151 | 0.153 | 0.155 | 0.157 | 0.158 | 0.159 | 0.160 | 0.160 | 0.160 |
| Delivered Energy | 0.670 | 0.680 | 0.667 | 0.706 | 0.712 | 0.715 | 0.722 | 0.725 | 0.728 | 0.728 | 0.728 | 0.728 | 0.730 |
| Electricity Related Losses | 0.306 | 0.314 | 0.339 | 0.358 | 0.353 | 0.348 | 0.328 | 0.336 | 0.348 | 0.339 | 0.345 | 0.340 | 0.344 |
| Total | 0.976 | 0.994 | 1.006 | 1.064 | 1.065 | 1.064 | 1.050 | 1.061 | 1.076 | 1.066 | 1.073 | 1.068 | 1.074 |
| Commercial | | | | | | | | | | | | | |
| Distillate Fuel | 0.136 | 0.128 | 0.123 | 0.122 | 0.123 | 0.124 | 0.125 | 0.125 | 0.125 | 0.125 | 0.124 | 0.124 | 0.124 |
| Residual Fuel | 0.020 | 0.018 | 0.007 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.010 |
| Kerosene | 0.003 | 0.003 | 0.002 | 0.002 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 |
| Liquefied Petroleum Gas | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Motor Gasoline 2/ | 0.007 | 0.006 | 0.007 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Petroleum Subtotal | 0.171 | 0.161 | 0.145 | 0.142 | 0.144 | 0.145 | 0.146 | 0.147 | 0.146 | 0.146 | 0.146 | 0.146 | 0.145 |
| Natural Gas | 0.117 | 0.118 | 0.116 | 0.123 | 0.127 | 0.129 | 0.131 | 0.133 | 0.134 | 0.136 | 0.137 | 0.138 | 0.140 |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Renewable Energy 3/ | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 |
| Electricity | 0.159 | 0.169 | 0.173 | 0.172 | 0.177 | 0.181 | 0.185 | 0.189 | 0.192 | 0.196 | 0.199 | 0.202 | 0.205 |
| Delivered Energy | 0.458 | 0.458 | 0.445 | 0.448 | 0.458 | 0.465 | 0.473 | 0.479 | 0.484 | 0.489 | 0.493 | 0.497 | 0.501 |
| Electricity Related Losses | 0.347 | 0.376 | 0.408 | 0.414 | 0.414 | 0.413 | 0.392 | 0.405 | 0.422 | 0.417 | 0.430 | 0.430 | 0.441 |
| Total | 0.806 | 0.834 | 0.853 | 0.862 | 0.872 | 0.878 | 0.866 | 0.884 | 0.906 | 0.905 | 0.922 | 0.927 | 0.942 |
| Industrial 4/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.024 | 0.025 | 0.023 | 0.023 | 0.024 | 0.024 | 0.024 | 0.024 | 0.025 | 0.025 | 0.026 | 0.026 | 0.026 |
| Liquefied Petroleum Gas | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Petrochemical Feedstocks | 0.052 | 0.045 | 0.048 | 0.049 | 0.050 | 0.049 | 0.050 | 0.051 | 0.052 | 0.054 | 0.056 | 0.057 | 0.059 |
| Residual Fuel | 0.050 | 0.045 | 0.036 | 0.039 | 0.040 | 0.040 | 0.041 | 0.041 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 |
| Motor Gasoline 2/ | 0.004 | 0.004 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Other Petroleum 5/ | 0.041 | 0.043 | 0.046 | 0.043 | 0.042 | 0.041 | 0.040 | 0.040 | 0.039 | 0.040 | 0.040 | 0.041 | 0.041 |
| Petroleum Subtotal | 0.175 | 0.165 | 0.161 | 0.162 | 0.164 | 0.163 | 0.163 | 0.166 | 0.168 | 0.170 | 0.173 | 0.176 | 0.179 |
| Natural Gas | 0.248 | 0.223 | 0.237 | 0.243 | 0.248 | 0.251 | 0.255 | 0.261 | 0.265 | 0.270 | 0.277 | 0.283 | 0.289 |
| Lease and Plant Fuel 6/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Natural Gas Subtotal | 0.248 | 0.223 | 0.237 | 0.243 | 0.248 | 0.251 | 0.255 | 0.261 | 0.265 | 0.270 | 0.277 | 0.283 | 0.289 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 0.006 | 0.006 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 0.006 | 0.006 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 |
| Renewable Energy 7/ | 0.112 | 0.109 | 0.107 | 0.111 | 0.114 | 0.116 | 0.118 | 0.121 | 0.124 | 0.127 | 0.131 | 0.135 | 0.139 |
| Electricity | 0.088 | 0.081 | 0.075 | 0.079 | 0.081 | 0.082 | 0.084 | 0.086 | 0.088 | 0.090 | 0.092 | 0.095 | 0.096 |
| Delivered Energy | 0.630 | 0.584 | 0.586 | 0.600 | 0.613 | 0.618 | 0.626 | 0.639 | 0.650 | 0.663 | 0.680 | 0.695 | 0.708 |
| Electricity Related Losses | 0.193 | 0.181 | 0.177 | 0.190 | 0.190 | 0.187 | 0.177 | 0.184 | 0.193 | 0.191 | 0.199 | 0.201 | 0.207 |
| Total | 0.822 | 0.765 | 0.763 | 0.790 | 0.803 | 0.806 | 0.804 | 0.822 | 0.843 | 0.855 | 0.879 | 0.896 | 0.915 |
| Transportation | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.155 | 0.158 | 0.157 | 0.163 | 0.168 | 0.172 | 0.177 | 0.182 | 0.188 | 0.194 | 0.200 | 0.205 | 0.210 |

**Table 1. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**New England**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jet Fuel 9/ | 0.079 | 0.075 | 0.074 | 0.074 | 0.073 | 0.074 | 0.076 | 0.077 | 0.079 | 0.081 | 0.082 | 0.084 | 0.086 |
| Motor Gasoline 2/ | 0.776 | 0.786 | 0.805 | 0.821 | 0.835 | 0.853 | 0.872 | 0.892 | 0.913 | 0.933 | 0.953 | 0.972 | 0.989 |
| Residual Fuel | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Liquefied Petroleum Gas | 0.000 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 |
| Other Petroleum 10/ | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 |
| Petroleum Subtotal | 1.020 | 1.030 | 1.047 | 1.069 | 1.088 | 1.111 | 1.137 | 1.164 | 1.192 | 1.219 | 1.248 | 1.274 | 1.298 |
| Pipeline Fuel Natural Gas | 0.007 | 0.006 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 |
| Compressed Natural Gas | 0.000 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.004 | 0.004 | 0.005 | 0.005 |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 |
| Delivered Energy | 1.030 | 1.041 | 1.057 | 1.080 | 1.099 | 1.122 | 1.149 | 1.177 | 1.205 | 1.234 | 1.263 | 1.290 | 1.315 |
| Electricity Related Losses | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 |
| Total | 1.038 | 1.049 | 1.066 | 1.089 | 1.108 | 1.131 | 1.157 | 1.186 | 1.215 | 1.243 | 1.273 | 1.300 | 1.325 |
| | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | |
| Distillate Fuel | 0.590 | 0.605 | 0.585 | 0.612 | 0.619 | 0.626 | 0.636 | 0.643 | 0.649 | 0.654 | 0.660 | 0.665 | 0.669 |
| Kerosene | 0.019 | 0.020 | 0.015 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 |
| Jet Fuel 9/ | 0.079 | 0.075 | 0.074 | 0.074 | 0.073 | 0.074 | 0.076 | 0.077 | 0.079 | 0.081 | 0.082 | 0.084 | 0.086 |
| Liquefied Petroleum Gas | 0.038 | 0.035 | 0.037 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.036 | 0.036 |
| Motor Gasoline 2/ | 0.787 | 0.797 | 0.816 | 0.830 | 0.844 | 0.862 | 0.881 | 0.901 | 0.922 | 0.942 | 0.963 | 0.981 | 0.999 |
| Petrochemical Feedstocks | 0.052 | 0.045 | 0.048 | 0.049 | 0.050 | 0.049 | 0.050 | 0.051 | 0.052 | 0.054 | 0.056 | 0.057 | 0.059 |
| Residual Fuel | 0.072 | 0.065 | 0.045 | 0.048 | 0.050 | 0.051 | 0.052 | 0.052 | 0.053 | 0.054 | 0.054 | 0.054 | 0.055 |
| Other Petroleum 12/ | 0.046 | 0.049 | 0.053 | 0.049 | 0.049 | 0.047 | 0.046 | 0.046 | 0.045 | 0.046 | 0.046 | 0.047 | 0.048 |
| Petroleum Subtotal | 1.682 | 1.691 | 1.673 | 1.714 | 1.737 | 1.762 | 1.793 | 1.823 | 1.854 | 1.883 | 1.914 | 1.942 | 1.968 |
| Natural Gas | 0.547 | 0.515 | 0.526 | 0.550 | 0.562 | 0.568 | 0.575 | 0.583 | 0.590 | 0.597 | 0.605 | 0.614 | 0.622 |
| Lease and Plant Fuel 6/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Pipeline Natural Gas | 0.007 | 0.006 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 |
| Natural Gas Subtotal | 0.553 | 0.521 | 0.532 | 0.555 | 0.568 | 0.574 | 0.581 | 0.589 | 0.596 | 0.603 | 0.612 | 0.621 | 0.629 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 |
| Renewable Energy 13/ | 0.154 | 0.150 | 0.148 | 0.154 | 0.157 | 0.159 | 0.161 | 0.164 | 0.167 | 0.171 | 0.176 | 0.180 | 0.183 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.391 | 0.395 | 0.396 | 0.404 | 0.413 | 0.420 | 0.428 | 0.436 | 0.443 | 0.450 | 0.456 | 0.462 | 0.467 |
| Delivered Energy | 2.788 | 2.763 | 2.755 | 2.834 | 2.881 | 2.921 | 2.970 | 3.019 | 3.067 | 3.113 | 3.164 | 3.210 | 3.254 |
| Electricity Related Losses | 0.854 | 0.879 | 0.932 | 0.971 | 0.966 | 0.957 | 0.907 | 0.933 | 0.973 | 0.956 | 0.983 | 0.981 | 1.002 |
| Total | 3.642 | 3.642 | 3.688 | 3.805 | 3.847 | 3.878 | 3.877 | 3.953 | 4.040 | 4.069 | 4.147 | 4.191 | 4.256 |
| | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.002 | 0.003 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.006 | 0.006 | 0.005 | 0.006 |
| Residual Fuel | 0.187 | 0.165 | 0.065 | 0.047 | 0.081 | 0.079 | 0.083 | 0.090 | 0.111 | 0.082 | 0.089 | 0.082 | 0.094 |
| Petroleum Subtotal | 0.189 | 0.168 | 0.071 | 0.053 | 0.087 | 0.084 | 0.089 | 0.096 | 0.118 | 0.087 | 0.095 | 0.088 | 0.100 |
| Natural Gas | 0.206 | 0.286 | 0.389 | 0.398 | 0.381 | 0.366 | 0.367 | 0.371 | 0.380 | 0.407 | 0.407 | 0.416 | 0.421 |
| Steam Coal | 0.197 | 0.191 | 0.192 | 0.193 | 0.198 | 0.205 | 0.212 | 0.219 | 0.216 | 0.216 | 0.216 | 0.216 | 0.216 |
| Nuclear Power | 0.354 | 0.361 | 0.363 | 0.364 | 0.364 | 0.365 | 0.366 | 0.369 | 0.370 | 0.370 | 0.371 | 0.372 | 0.372 |
| Renewable Energy/Other 15/ | 0.148 | 0.138 | 0.146 | 0.155 | 0.156 | 0.156 | 0.158 | 0.160 | 0.162 | 0.168 | 0.171 | 0.176 | 0.180 |
| Electricity Imports | 0.152 | 0.129 | 0.167 | 0.213 | 0.193 | 0.201 | 0.142 | 0.155 | 0.170 | 0.157 | 0.179 | 0.175 | 0.180 |
| Total | 1.245 | 1.273 | 1.329 | 1.375 | 1.379 | 1.377 | 1.335 | 1.369 | 1.416 | 1.406 | 1.439 | 1.443 | 1.469 |
| | | | | | | | | | | | | | |
| Total Energy Consumption | | | | | | | | | | | | | |
| Distillate Fuel | 0.592 | 0.608 | 0.591 | 0.618 | 0.625 | 0.632 | 0.642 | 0.649 | 0.656 | 0.659 | 0.665 | 0.670 | 0.675 |
| Kerosene | 0.019 | 0.020 | 0.015 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 |
| Jet Fuel 9/ | 0.079 | 0.075 | 0.074 | 0.074 | 0.073 | 0.074 | 0.076 | 0.077 | 0.079 | 0.081 | 0.082 | 0.084 | 0.086 |

**Table 1. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**New England**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liquefied Petroleum Gas | 0.038 | 0.035 | 0.037 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.036 | 0.036 |
| Motor Gasoline 2/ | 0.787 | 0.797 | 0.816 | 0.830 | 0.844 | 0.862 | 0.881 | 0.901 | 0.922 | 0.942 | 0.963 | 0.981 | 0.999 |
| Petrochemical Feedstocks | 0.052 | 0.045 | 0.048 | 0.049 | 0.050 | 0.049 | 0.050 | 0.051 | 0.052 | 0.054 | 0.056 | 0.057 | 0.059 |
| Residual Fuel | 0.259 | 0.230 | 0.111 | 0.096 | 0.131 | 0.130 | 0.135 | 0.142 | 0.165 | 0.135 | 0.143 | 0.137 | 0.149 |
| Other Petroleum 12/ | 0.046 | 0.049 | 0.053 | 0.049 | 0.049 | 0.047 | 0.046 | 0.046 | 0.045 | 0.046 | 0.046 | 0.047 | 0.048 |
| Petroleum Subtotal | 1.871 | 1.860 | 1.744 | 1.768 | 1.824 | 1.846 | 1.882 | 1.919 | 1.971 | 1.970 | 2.009 | 2.030 | 2.068 |
| Natural Gas | 0.752 | 0.801 | 0.916 | 0.947 | 0.943 | 0.933 | 0.942 | 0.954 | 0.971 | 1.004 | 1.012 | 1.030 | 1.043 |
| Lease and Plant Fuel 6/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Pipeline Natural Gas | 0.007 | 0.006 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 |
| Natural Gas Subtotal | 0.759 | 0.807 | 0.921 | 0.953 | 0.948 | 0.939 | 0.948 | 0.960 | 0.977 | 1.010 | 1.019 | 1.036 | 1.050 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 0.204 | 0.198 | 0.198 | 0.199 | 0.205 | 0.211 | 0.219 | 0.225 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 0.204 | 0.198 | 0.198 | 0.199 | 0.205 | 0.211 | 0.219 | 0.225 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 |
| Nuclear Power | 0.354 | 0.361 | 0.363 | 0.364 | 0.364 | 0.365 | 0.366 | 0.369 | 0.370 | 0.370 | 0.371 | 0.372 | 0.372 |
| Renewable Energy 16/ | 0.302 | 0.287 | 0.294 | 0.309 | 0.313 | 0.316 | 0.320 | 0.325 | 0.329 | 0.339 | 0.347 | 0.355 | 0.363 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity Imports | 0.152 | 0.129 | 0.167 | 0.213 | 0.193 | 0.201 | 0.142 | 0.155 | 0.170 | 0.157 | 0.179 | 0.175 | 0.180 |
| Total | 3.642 | 3.642 | 3.688 | 3.805 | 3.847 | 3.878 | 3.877 | 3.953 | 4.040 | 4.069 | 4.147 | 4.191 | 4.256 |
| Energy Use & Related Statistics | | | | | | | | | | | | | |
| Delivered Energy Use | 2.788 | 2.763 | 2.755 | 2.834 | 2.881 | 2.921 | 2.970 | 3.019 | 3.067 | 3.113 | 3.164 | 3.210 | 3.254 |
| Total Energy Use | 3.642 | 3.642 | 3.688 | 3.805 | 3.847 | 3.878 | 3.877 | 3.953 | 4.040 | 4.069 | 4.147 | 4.191 | 4.256 |
| Population (millions) | 13.590 | 13.670 | 13.755 | 13.837 | 13.906 | 13.968 | 14.029 | 14.089 | 14.147 | 14.205 | 14.262 | 14.319 | 14.376 |
| US GDP (billion 1996 dollars) | 9191 | 9215 | 9440 | 9743 | 10074 | 10361 | 10667 | 11017 | 11408 | 11810 | 12258 | 12671 | 13082 |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1578.2 | 1558.6 | 1536.2 | 1567.9 | 1597.2 | 1623.7 | 1662.3 | 1699.7 | 1734.5 | 1765.8 | 1800.5 | 1832.6 | 1862.1 |

**Table 1. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**New England**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | | |
| Distillate Fuel | 0.308 | 0.307 | 0.306 | 0.306 | 0.306 | 0.306 | 0.305 | 0.305 | 0.304 | 0.305 | 0.306 | 0.307 | 0.308 | 0.2% |
| Kerosene | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | -0.2% |
| Liquefied Petroleum Gas | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | -0.4% |
| Petroleum Subtotal | 0.344 | 0.343 | 0.343 | 0.343 | 0.343 | 0.342 | 0.342 | 0.342 | 0.341 | 0.342 | 0.343 | 0.345 | 0.345 | 0.1% |
| Natural Gas | 0.188 | 0.189 | 0.190 | 0.191 | 0.191 | 0.192 | 0.194 | 0.195 | 0.196 | 0.198 | 0.199 | 0.201 | 0.201 | 0.6% |
| Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.3% |
| Renewable Energy 1/ | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.036 | 0.036 | 0.036 | 0.036 | 0.036 | 0.036 | 0.037 | 0.037 | 0.8% |
| Electricity | 0.160 | 0.160 | 0.161 | 0.162 | 0.162 | 0.163 | 0.163 | 0.165 | 0.166 | 0.167 | 0.169 | 0.171 | 0.172 | 0.8% |
| Delivered Energy | 0.728 | 0.728 | 0.729 | 0.732 | 0.732 | 0.733 | 0.735 | 0.739 | 0.739 | 0.743 | 0.747 | 0.753 | 0.755 | 0.4% |
| Electricity Related Losses | 0.339 | 0.337 | 0.339 | 0.337 | 0.333 | 0.324 | 0.318 | 0.318 | 0.312 | 0.310 | 0.302 | 0.303 | 0.301 | -0.2% |
| Total | 1.067 | 1.065 | 1.068 | 1.069 | 1.064 | 1.058 | 1.052 | 1.056 | 1.051 | 1.053 | 1.049 | 1.056 | 1.056 | 0.3% |
| Commercial | | | | | | | | | | | | | | |
| Distillate Fuel | 0.123 | 0.123 | 0.122 | 0.122 | 0.122 | 0.122 | 0.121 | 0.121 | 0.120 | 0.119 | 0.119 | 0.119 | 0.119 | -0.3% |
| Residual Fuel | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 | -2.3% |
| Kerosene | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | -0.6% |
| Liquefied Petroleum Gas | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.1% |
| Motor Gasoline 2/ | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | -1.2% |
| Petroleum Subtotal | 0.145 | 0.145 | 0.144 | 0.144 | 0.144 | 0.144 | 0.144 | 0.143 | 0.143 | 0.142 | 0.142 | 0.142 | 0.142 | -0.5% |
| Natural Gas | 0.141 | 0.143 | 0.144 | 0.146 | 0.148 | 0.151 | 0.153 | 0.156 | 0.160 | 0.164 | 0.167 | 0.169 | 0.171 | 1.6% |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.5% |
| Renewable Energy 3/ | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.0% |
| Electricity | 0.208 | 0.211 | 0.214 | 0.216 | 0.219 | 0.222 | 0.225 | 0.227 | 0.230 | 0.233 | 0.237 | 0.240 | 0.244 | 1.5% |
| Delivered Energy | 0.505 | 0.509 | 0.513 | 0.517 | 0.523 | 0.528 | 0.532 | 0.538 | 0.543 | 0.550 | 0.556 | 0.562 | 0.568 | 0.9% |
| Electricity Related Losses | 0.441 | 0.444 | 0.451 | 0.451 | 0.449 | 0.442 | 0.436 | 0.438 | 0.433 | 0.432 | 0.424 | 0.426 | 0.428 | 0.5% |
| Total | 0.947 | 0.953 | 0.964 | 0.968 | 0.972 | 0.970 | 0.969 | 0.976 | 0.977 | 0.982 | 0.980 | 0.988 | 0.996 | 0.7% |
| Industrial 4/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.028 | 0.028 | 0.028 | 0.028 | 0.029 | 0.029 | 0.029 | 0.7% |
| Liquefied Petroleum Gas | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 1.5% |
| Petrochemical Feedstocks | 0.059 | 0.060 | 0.061 | 0.061 | 0.062 | 0.063 | 0.064 | 0.065 | 0.066 | 0.066 | 0.067 | 0.068 | 0.069 | 1.8% |
| Residual Fuel | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | -0.2% |
| Motor Gasoline 2/ | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.6% |
| Other Petroleum 5/ | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 | 0.0% |
| Petroleum Subtotal | 0.180 | 0.181 | 0.182 | 0.183 | 0.184 | 0.185 | 0.186 | 0.188 | 0.189 | 0.190 | 0.191 | 0.193 | 0.194 | 0.7% |
| Natural Gas | 0.294 | 0.299 | 0.303 | 0.307 | 0.312 | 0.318 | 0.324 | 0.330 | 0.336 | 0.344 | 0.351 | 0.359 | 0.366 | 2.1% |
| Lease and Plant Fuel 6/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Natural Gas Subtotal | 0.294 | 0.299 | 0.303 | 0.307 | 0.312 | 0.318 | 0.324 | 0.330 | 0.336 | 0.344 | 0.351 | 0.359 | 0.366 | 2.1% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.1% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.1% |
| Renewable Energy 7/ | 0.142 | 0.145 | 0.147 | 0.149 | 0.152 | 0.155 | 0.158 | 0.160 | 0.162 | 0.164 | 0.166 | 0.168 | 0.170 | 1.9% |
| Electricity | 0.098 | 0.099 | 0.100 | 0.101 | 0.102 | 0.103 | 0.104 | 0.105 | 0.106 | 0.107 | 0.108 | 0.109 | 0.110 | 1.3% |
| Delivered Energy | 0.719 | 0.730 | 0.739 | 0.746 | 0.755 | 0.766 | 0.778 | 0.788 | 0.798 | 0.811 | 0.822 | 0.835 | 0.846 | 1.6% |
| Electricity Related Losses | 0.208 | 0.209 | 0.212 | 0.210 | 0.209 | 0.205 | 0.202 | 0.202 | 0.199 | 0.198 | 0.193 | 0.194 | 0.193 | 0.3% |
| Total | 0.927 | 0.939 | 0.950 | 0.957 | 0.965 | 0.971 | 0.980 | 0.990 | 0.997 | 1.008 | 1.015 | 1.028 | 1.039 | 1.3% |
| Transportation | | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.214 | 0.218 | 0.221 | 0.223 | 0.227 | 0.230 | 0.233 | 0.236 | 0.240 | 0.243 | 0.247 | 0.251 | 0.255 | 2.0% |

**Table 1. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**New England**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jet Fuel 9/ | 0.088 | 0.090 | 0.092 | 0.093 | 0.095 | 0.097 | 0.099 | 0.101 | 0.103 | 0.104 | 0.106 | 0.108 | 0.110 | 1.6% |
| Motor Gasoline 2/ | 1.006 | 1.021 | 1.034 | 1.047 | 1.058 | 1.071 | 1.084 | 1.095 | 1.105 | 1.116 | 1.129 | 1.144 | 1.157 | 1.6% |
| Residual Fuel | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.3% |
| Liquefied Petroleum Gas | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 | 7.4% |
| Other Petroleum 10/ | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.010 | 0.010 | 0.5% |
| Petroleum Subtotal | 1.321 | 1.341 | 1.360 | 1.377 | 1.394 | 1.412 | 1.431 | 1.447 | 1.462 | 1.479 | 1.497 | 1.518 | 1.537 | 1.7% |
| Pipeline Fuel Natural Gas | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 1.2% |
| Compressed Natural Gas | 0.005 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 11.4% |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 8.6% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 2.4% |
| Delivered Energy | 1.338 | 1.359 | 1.378 | 1.396 | 1.414 | 1.432 | 1.452 | 1.467 | 1.483 | 1.500 | 1.520 | 1.541 | 1.560 | 1.7% |
| Electricity Related Losses | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 1.4% |
| Total | 1.348 | 1.370 | 1.389 | 1.407 | 1.424 | 1.443 | 1.462 | 1.478 | 1.494 | 1.511 | 1.530 | 1.552 | 1.571 | 1.7% |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | | |
| Distillate Fuel | 0.671 | 0.674 | 0.676 | 0.679 | 0.682 | 0.685 | 0.687 | 0.690 | 0.692 | 0.696 | 0.700 | 0.707 | 0.711 | 0.7% |
| Kerosene | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.019 | 0.019 | 0.019 | -0.3% |
| Jet Fuel 9/ | 0.088 | 0.090 | 0.092 | 0.093 | 0.095 | 0.097 | 0.099 | 0.101 | 0.103 | 0.104 | 0.106 | 0.108 | 0.110 | 1.6% |
| Liquefied Petroleum Gas | 0.036 | 0.036 | 0.036 | 0.036 | 0.036 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.038 | 0.3% |
| Motor Gasoline 2/ | 1.016 | 1.030 | 1.044 | 1.056 | 1.068 | 1.080 | 1.094 | 1.105 | 1.115 | 1.126 | 1.139 | 1.154 | 1.167 | 1.6% |
| Petrochemical Feedstocks | 0.059 | 0.060 | 0.061 | 0.061 | 0.062 | 0.063 | 0.064 | 0.065 | 0.066 | 0.066 | 0.067 | 0.068 | 0.069 | 1.8% |
| Residual Fuel | 0.055 | 0.055 | 0.055 | 0.054 | 0.054 | 0.054 | 0.055 | 0.055 | 0.055 | 0.055 | 0.055 | 0.055 | 0.056 | -0.6% |
| Other Petroleum 12/ | 0.048 | 0.048 | 0.048 | 0.049 | 0.049 | 0.049 | 0.049 | 0.049 | 0.049 | 0.050 | 0.050 | 0.050 | 0.050 | 0.1% |
| Petroleum Subtotal | 1.990 | 2.011 | 2.029 | 2.048 | 2.065 | 2.084 | 2.103 | 2.120 | 2.135 | 2.153 | 2.173 | 2.198 | 2.217 | 1.1% |
| Natural Gas | 0.628 | 0.636 | 0.643 | 0.651 | 0.658 | 0.668 | 0.678 | 0.689 | 0.700 | 0.713 | 0.724 | 0.737 | 0.747 | 1.6% |
| Lease and Plant Fuel 6/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Pipeline Natural Gas | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 1.2% |
| Natural Gas Subtotal | 0.635 | 0.644 | 0.651 | 0.658 | 0.666 | 0.675 | 0.686 | 0.697 | 0.708 | 0.721 | 0.733 | 0.745 | 0.755 | 1.6% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.1% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.1% |
| Renewable Energy 13/ | 0.186 | 0.190 | 0.192 | 0.195 | 0.198 | 0.200 | 0.203 | 0.206 | 0.208 | 0.210 | 0.213 | 0.215 | 0.217 | 1.6% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 0.471 | 0.476 | 0.480 | 0.484 | 0.488 | 0.493 | 0.498 | 0.503 | 0.507 | 0.513 | 0.519 | 0.526 | 0.532 | 1.3% |
| Delivered Energy | 3.290 | 3.326 | 3.359 | 3.391 | 3.423 | 3.459 | 3.497 | 3.532 | 3.564 | 3.604 | 3.645 | 3.690 | 3.728 | 1.3% |
| Electricity Related Losses | 0.998 | 1.000 | 1.013 | 1.009 | 1.002 | 0.982 | 0.967 | 0.968 | 0.955 | 0.950 | 0.930 | 0.935 | 0.933 | 0.3% |
| Total | 4.288 | 4.327 | 4.372 | 4.400 | 4.425 | 4.440 | 4.463 | 4.500 | 4.519 | 4.554 | 4.575 | 4.625 | 4.662 | 1.0% |
| Electric Generators 14/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.006 | 0.006 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.006 | 2.5% |
| Residual Fuel | 0.100 | 0.107 | 0.110 | 0.117 | 0.116 | 0.116 | 0.118 | 0.113 | 0.111 | 0.108 | 0.101 | 0.109 | 0.106 | -1.8% |
| Petroleum Subtotal | 0.106 | 0.113 | 0.115 | 0.123 | 0.122 | 0.122 | 0.124 | 0.119 | 0.117 | 0.114 | 0.106 | 0.114 | 0.112 | -1.7% |
| Natural Gas | 0.422 | 0.431 | 0.431 | 0.431 | 0.441 | 0.444 | 0.450 | 0.439 | 0.453 | 0.474 | 0.480 | 0.487 | 0.502 | 2.4% |
| Steam Coal | 0.216 | 0.216 | 0.216 | 0.217 | 0.216 | 0.216 | 0.217 | 0.217 | 0.217 | 0.217 | 0.217 | 0.217 | 0.217 | 0.5% |
| Nuclear Power | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.1% |
| Renewable Energy/Other 15/ | 0.184 | 0.189 | 0.194 | 0.198 | 0.205 | 0.209 | 0.213 | 0.218 | 0.219 | 0.220 | 0.220 | 0.220 | 0.220 | 2.0% |
| Electricity Imports | 0.168 | 0.155 | 0.165 | 0.152 | 0.134 | 0.112 | 0.088 | 0.106 | 0.084 | 0.066 | 0.054 | 0.050 | 0.043 | -4.5% |
| Total | 1.469 | 1.476 | 1.493 | 1.493 | 1.490 | 1.475 | 1.464 | 1.471 | 1.462 | 1.463 | 1.449 | 1.461 | 1.465 | 0.6% |
| Total Energy Consumption | | | | | | | | | | | | | | |
| Distillate Fuel | 0.677 | 0.679 | 0.681 | 0.685 | 0.688 | 0.691 | 0.693 | 0.696 | 0.698 | 0.702 | 0.706 | 0.712 | 0.716 | 0.7% |
| Kerosene | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.019 | 0.019 | 0.019 | -0.3% |
| Jet Fuel 9/ | 0.088 | 0.090 | 0.092 | 0.093 | 0.095 | 0.097 | 0.099 | 0.101 | 0.103 | 0.104 | 0.106 | 0.108 | 0.110 | 1.6% |

**Table 1. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**New England**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liquefied Petroleum Gas | 0.036 | 0.036 | 0.036 | 0.036 | 0.036 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.037 | 0.038 | 0.3% |
| Motor Gasoline 2/ | 1.016 | 1.030 | 1.044 | 1.056 | 1.068 | 1.080 | 1.094 | 1.105 | 1.115 | 1.126 | 1.139 | 1.154 | 1.167 | 1.6% |
| Petrochemical Feedstocks | 0.059 | 0.060 | 0.061 | 0.061 | 0.062 | 0.063 | 0.064 | 0.065 | 0.066 | 0.066 | 0.067 | 0.068 | 0.069 | 1.8% |
| Residual Fuel | 0.155 | 0.162 | 0.164 | 0.172 | 0.170 | 0.170 | 0.173 | 0.168 | 0.165 | 0.163 | 0.156 | 0.164 | 0.162 | -1.5% |
| Other Petroleum 12/ | 0.048 | 0.048 | 0.048 | 0.049 | 0.049 | 0.049 | 0.049 | 0.049 | 0.049 | 0.050 | 0.050 | 0.050 | 0.050 | 0.1% |
| Petroleum Subtotal | 2.096 | 2.123 | 2.144 | 2.171 | 2.187 | 2.205 | 2.227 | 2.239 | 2.252 | 2.267 | 2.280 | 2.312 | 2.329 | 0.9% |
| Natural Gas | 1.051 | 1.067 | 1.074 | 1.082 | 1.099 | 1.112 | 1.128 | 1.128 | 1.152 | 1.187 | 1.204 | 1.224 | 1.248 | 1.9% |
| Lease and Plant Fuel 6/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Pipeline Natural Gas | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 1.2% |
| Natural Gas Subtotal | 1.058 | 1.075 | 1.081 | 1.089 | 1.106 | 1.120 | 1.136 | 1.135 | 1.160 | 1.195 | 1.213 | 1.232 | 1.257 | 1.9% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.5% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.223 | 0.5% |
| Nuclear Power | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.372 | 0.1% |
| Renewable Energy 16/ | 0.371 | 0.379 | 0.386 | 0.393 | 0.402 | 0.409 | 0.416 | 0.424 | 0.427 | 0.431 | 0.433 | 0.435 | 0.437 | 1.8% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity Imports | 0.168 | 0.155 | 0.165 | 0.152 | 0.134 | 0.112 | 0.088 | 0.106 | 0.084 | 0.066 | 0.054 | 0.050 | 0.043 | -4.5% |
| Total | 4.288 | 4.327 | 4.372 | 4.400 | 4.425 | 4.440 | 4.463 | 4.500 | 4.519 | 4.554 | 4.575 | 4.625 | 4.662 | 1.0% |
| Energy Use & Related Statistics | | | | | | | | | | | | | | |
| Delivered Energy Use | 3.290 | 3.326 | 3.359 | 3.391 | 3.423 | 3.459 | 3.497 | 3.532 | 3.564 | 3.604 | 3.645 | 3.690 | 3.728 | 1.3% |
| Total Energy Use | 4.288 | 4.327 | 4.372 | 4.400 | 4.425 | 4.440 | 4.463 | 4.500 | 4.519 | 4.554 | 4.575 | 4.625 | 4.662 | 1.0% |
| Population (millions) | 14.434 | 14.491 | 14.549 | 14.606 | 14.664 | 14.721 | 14.778 | 14.835 | 14.892 | 14.950 | 15.009 | 15.068 | 15.128 | 0.4% |
| US GDP (billion 1996 dollars) | 13480 | 13893 | 14288 | 14681 | 15101 | 15540 | 16013 | 16450 | 16888 | 17363 | 17858 | 18389 | 18917 | 3.0% |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1889.2 | 1915.7 | 1944.2 | 1970.2 | 1996.8 | 2024.6 | 2055.5 | 2082.5 | 2108.3 | 2139.7 | 2170.8 | 2204.3 | 2236.9 | 1.5% |

**Table 1. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**New England**

1/ Includes wood used for residential heating. See Table A18 estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.
2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.
3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.
4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.
5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.
6/ Represents natural gas used in the field gathering and processing plant machinery.
7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.
8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.
9/ Includes only kerosene type.
10/ Includes aviation gasoline and lubricants.
11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.
13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.
16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.
Sources: 2000 and 2001 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). 2000 and 2001 population and gross domestic product: Global Insight macroeconomic model CTL0802. 2000 and 2001 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2001, DOE/EIA-0573(2001) (Washington, DC, December 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 2. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Middle Atlantic**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | |
| Distillate Fuel | 0.387 | 0.403 | 0.386 | 0.421 | 0.417 | 0.415 | 0.415 | 0.411 | 0.407 | 0.401 | 0.396 | 0.390 | 0.386 |
| Kerosene | 0.023 | 0.025 | 0.019 | 0.021 | 0.020 | 0.020 | 0.020 | 0.019 | 0.019 | 0.018 | 0.018 | 0.017 | 0.017 |
| Liquefied Petroleum Gas | 0.042 | 0.040 | 0.042 | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 | 0.041 | 0.041 | 0.041 | 0.042 | 0.042 |
| Petroleum Subtotal | 0.452 | 0.468 | 0.447 | 0.481 | 0.477 | 0.475 | 0.474 | 0.471 | 0.467 | 0.460 | 0.455 | 0.449 | 0.445 |
| Natural Gas | 0.872 | 0.829 | 0.828 | 0.881 | 0.890 | 0.890 | 0.894 | 0.894 | 0.896 | 0.893 | 0.892 | 0.892 | 0.894 |
| Coal | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Renewable Energy 1/ | 0.092 | 0.083 | 0.083 | 0.089 | 0.089 | 0.088 | 0.087 | 0.086 | 0.085 | 0.084 | 0.083 | 0.083 | 0.082 |
| Electricity | 0.380 | 0.384 | 0.393 | 0.406 | 0.413 | 0.418 | 0.424 | 0.431 | 0.437 | 0.439 | 0.440 | 0.440 | 0.440 |
| Delivered Energy | 1.801 | 1.767 | 1.754 | 1.863 | 1.874 | 1.875 | 1.884 | 1.887 | 1.891 | 1.882 | 1.875 | 1.868 | 1.867 |
| Electricity Related Losses | 0.946 | 0.935 | 0.877 | 0.919 | 0.921 | 0.930 | 0.940 | 0.960 | 0.980 | 0.979 | 0.980 | 0.973 | 0.977 |
| Total | 2.747 | 2.702 | 2.631 | 2.782 | 2.795 | 2.805 | 2.824 | 2.847 | 2.871 | 2.861 | 2.855 | 2.841 | 2.844 |
| Commercial | | | | | | | | | | | | | |
| Distillate Fuel | 0.147 | 0.137 | 0.133 | 0.132 | 0.134 | 0.135 | 0.136 | 0.136 | 0.136 | 0.136 | 0.135 | 0.135 | 0.134 |
| Residual Fuel | 0.063 | 0.059 | 0.025 | 0.023 | 0.026 | 0.028 | 0.029 | 0.028 | 0.027 | 0.028 | 0.029 | 0.029 | 0.030 |
| Kerosene | 0.013 | 0.013 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 |
| Liquefied Petroleum Gas | 0.008 | 0.007 | 0.007 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 |
| Motor Gasoline 2/ | 0.004 | 0.005 | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Petroleum Subtotal | 0.234 | 0.220 | 0.179 | 0.176 | 0.180 | 0.183 | 0.184 | 0.184 | 0.183 | 0.184 | 0.184 | 0.184 | 0.184 |
| Natural Gas | 0.448 | 0.437 | 0.427 | 0.449 | 0.460 | 0.466 | 0.473 | 0.477 | 0.480 | 0.482 | 0.485 | 0.487 | 0.490 |
| Coal | 0.017 | 0.016 | 0.016 | 0.016 | 0.015 | 0.015 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.017 |
| Renewable Energy 3/ | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| Electricity | 0.510 | 0.533 | 0.549 | 0.547 | 0.560 | 0.573 | 0.585 | 0.598 | 0.609 | 0.619 | 0.627 | 0.636 | 0.643 |
| Delivered Energy | 1.234 | 1.232 | 1.196 | 1.212 | 1.241 | 1.262 | 1.283 | 1.301 | 1.314 | 1.327 | 1.338 | 1.349 | 1.359 |
| Electricity Related Losses | 1.268 | 1.300 | 1.226 | 1.238 | 1.249 | 1.273 | 1.296 | 1.331 | 1.365 | 1.380 | 1.396 | 1.407 | 1.427 |
| Total | 2.502 | 2.532 | 2.423 | 2.451 | 2.490 | 2.535 | 2.579 | 2.632 | 2.679 | 2.707 | 2.734 | 2.757 | 2.786 |
| Industrial 4/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.063 | 0.065 | 0.061 | 0.061 | 0.059 | 0.060 | 0.060 | 0.062 | 0.063 | 0.064 | 0.065 | 0.066 | 0.066 |
| Liquefied Petroleum Gas | 0.032 | 0.029 | 0.031 | 0.031 | 0.030 | 0.030 | 0.030 | 0.031 | 0.031 | 0.032 | 0.033 | 0.036 | 0.048 |
| Petrochemical Feedstocks | 0.149 | 0.129 | 0.137 | 0.142 | 0.143 | 0.142 | 0.144 | 0.147 | 0.151 | 0.155 | 0.160 | 0.164 | 0.168 |
| Residual Fuel | 0.030 | 0.030 | 0.027 | 0.028 | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.015 |
| Motor Gasoline 2/ | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 |
| Other Petroleum 5/ | 0.393 | 0.403 | 0.421 | 0.408 | 0.414 | 0.409 | 0.403 | 0.408 | 0.406 | 0.409 | 0.413 | 0.418 | 0.422 |
| Petroleum Subtotal | 0.676 | 0.667 | 0.687 | 0.680 | 0.670 | 0.664 | 0.660 | 0.671 | 0.676 | 0.685 | 0.696 | 0.709 | 0.731 |
| Natural Gas | 0.719 | 0.641 | 0.680 | 0.695 | 0.749 | 0.754 | 0.767 | 0.790 | 0.805 | 0.826 | 0.847 | 0.858 | 0.852 |
| Lease and Plant Fuel 6/ | 0.006 | 0.006 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Natural Gas Subtotal | 0.725 | 0.647 | 0.685 | 0.700 | 0.753 | 0.758 | 0.772 | 0.794 | 0.810 | 0.831 | 0.852 | 0.863 | 0.857 |
| Metallurgical Coal | 0.220 | 0.199 | 0.179 | 0.189 | 0.188 | 0.188 | 0.188 | 0.187 | 0.190 | 0.186 | 0.183 | 0.180 | 0.176 |
| Steam Coal | 0.126 | 0.122 | 0.118 | 0.119 | 0.120 | 0.120 | 0.120 | 0.121 | 0.122 | 0.122 | 0.123 | 0.123 | 0.124 |
| Net Coal Coke Imports | 0.004 | 0.001 | 0.001 | 0.002 | 0.003 | 0.003 | 0.004 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 | 0.009 |
| Coal Subtotal | 0.350 | 0.322 | 0.297 | 0.310 | 0.311 | 0.312 | 0.312 | 0.313 | 0.318 | 0.315 | 0.314 | 0.312 | 0.310 |
| Renewable Energy 7/ | 0.176 | 0.170 | 0.168 | 0.174 | 0.178 | 0.181 | 0.184 | 0.188 | 0.191 | 0.196 | 0.203 | 0.208 | 0.213 |
| Electricity | 0.291 | 0.270 | 0.250 | 0.263 | 0.266 | 0.269 | 0.273 | 0.282 | 0.289 | 0.296 | 0.304 | 0.311 | 0.318 |
| Delivered Energy | 2.217 | 2.076 | 2.087 | 2.126 | 2.178 | 2.184 | 2.201 | 2.249 | 2.284 | 2.324 | 2.367 | 2.403 | 2.428 |
| Electricity Related Losses | 0.723 | 0.657 | 0.559 | 0.595 | 0.592 | 0.599 | 0.604 | 0.628 | 0.648 | 0.660 | 0.676 | 0.689 | 0.705 |

**Table 2. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Middle Atlantic**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 2.941 | 2.733 | 2.647 | 2.721 | 2.770 | 2.783 | 2.805 | 2.877 | 2.932 | 2.984 | 3.043 | 3.092 | 3.133 |
| | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.482 | 0.491 | 0.489 | 0.506 | 0.522 | 0.535 | 0.551 | 0.568 | 0.584 | 0.601 | 0.619 | 0.635 | 0.649 |
| Jet Fuel 9/ | 0.360 | 0.345 | 0.338 | 0.332 | 0.329 | 0.335 | 0.344 | 0.352 | 0.362 | 0.371 | 0.379 | 0.388 | 0.397 |
| Motor Gasoline 2/ | 1.796 | 1.820 | 1.864 | 1.886 | 1.908 | 1.940 | 1.976 | 2.015 | 2.056 | 2.095 | 2.135 | 2.171 | 2.204 |
| Residual Fuel | 0.149 | 0.140 | 0.132 | 0.136 | 0.135 | 0.134 | 0.134 | 0.134 | 0.133 | 0.132 | 0.132 | 0.131 | 0.131 |
| Liquefied Petroleum Gas | 0.001 | 0.002 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 |
| Other Petroleum 10/ | 0.023 | 0.025 | 0.025 | 0.026 | 0.026 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.026 | 0.026 |
| Petroleum Subtotal | 2.812 | 2.822 | 2.851 | 2.890 | 2.925 | 2.974 | 3.035 | 3.099 | 3.165 | 3.231 | 3.297 | 3.358 | 3.414 |
| Pipeline Fuel Natural Gas | 0.050 | 0.047 | 0.037 | 0.040 | 0.041 | 0.042 | 0.042 | 0.043 | 0.045 | 0.047 | 0.048 | 0.049 | 0.050 |
| Compressed Natural Gas | 0.001 | 0.001 | 0.002 | 0.003 | 0.004 | 0.004 | 0.005 | 0.005 | 0.006 | 0.007 | 0.007 | 0.008 | 0.009 |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 0.013 |
| Delivered Energy | 2.872 | 2.882 | 2.900 | 2.944 | 2.980 | 3.031 | 3.094 | 3.160 | 3.228 | 3.296 | 3.365 | 3.427 | 3.485 |
| Electricity Related Losses | 0.025 | 0.025 | 0.023 | 0.024 | 0.024 | 0.025 | 0.025 | 0.026 | 0.026 | 0.027 | 0.027 | 0.028 | 0.028 |
| Total | 2.897 | 2.907 | 2.923 | 2.968 | 3.005 | 3.056 | 3.119 | 3.185 | 3.254 | 3.323 | 3.392 | 3.455 | 3.513 |
| | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | |
| Distillate Fuel | 1.079 | 1.097 | 1.069 | 1.121 | 1.133 | 1.145 | 1.162 | 1.176 | 1.190 | 1.201 | 1.214 | 1.226 | 1.236 |
| Kerosene | 0.041 | 0.043 | 0.032 | 0.035 | 0.035 | 0.035 | 0.034 | 0.034 | 0.034 | 0.034 | 0.033 | 0.033 | 0.032 |
| Jet Fuel 9/ | 0.360 | 0.345 | 0.338 | 0.332 | 0.329 | 0.335 | 0.344 | 0.352 | 0.362 | 0.371 | 0.379 | 0.388 | 0.397 |
| Liquefied Petroleum Gas | 0.083 | 0.078 | 0.082 | 0.081 | 0.081 | 0.081 | 0.082 | 0.083 | 0.084 | 0.086 | 0.087 | 0.091 | 0.104 |
| Motor Gasoline 2/ | 1.810 | 1.834 | 1.879 | 1.900 | 1.922 | 1.953 | 1.989 | 2.028 | 2.069 | 2.108 | 2.149 | 2.185 | 2.218 |
| Petrochemical Feedstocks | 0.149 | 0.129 | 0.137 | 0.142 | 0.143 | 0.142 | 0.144 | 0.147 | 0.151 | 0.155 | 0.160 | 0.164 | 0.168 |
| Residual Fuel | 0.241 | 0.228 | 0.183 | 0.187 | 0.175 | 0.176 | 0.176 | 0.176 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 |
| Other Petroleum 12/ | 0.411 | 0.423 | 0.443 | 0.429 | 0.435 | 0.430 | 0.423 | 0.428 | 0.426 | 0.430 | 0.434 | 0.438 | 0.443 |
| Petroleum Subtotal | 4.173 | 4.177 | 4.164 | 4.226 | 4.252 | 4.297 | 4.354 | 4.425 | 4.490 | 4.559 | 4.632 | 4.701 | 4.774 |
| Natural Gas | 2.040 | 1.908 | 1.937 | 2.028 | 2.102 | 2.114 | 2.139 | 2.166 | 2.188 | 2.208 | 2.231 | 2.245 | 2.245 |
| Lease and Plant Fuel 6/ | 0.006 | 0.006 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Pipeline Natural Gas | 0.050 | 0.047 | 0.037 | 0.040 | 0.041 | 0.042 | 0.042 | 0.043 | 0.045 | 0.047 | 0.048 | 0.049 | 0.050 |
| Natural Gas Subtotal | 2.096 | 1.961 | 1.978 | 2.072 | 2.147 | 2.160 | 2.185 | 2.214 | 2.238 | 2.260 | 2.284 | 2.299 | 2.300 |
| Metallurgical Coal | 0.220 | 0.199 | 0.179 | 0.189 | 0.188 | 0.188 | 0.188 | 0.187 | 0.190 | 0.186 | 0.183 | 0.180 | 0.176 |
| Steam Coal | 0.147 | 0.143 | 0.138 | 0.140 | 0.140 | 0.141 | 0.141 | 0.142 | 0.143 | 0.143 | 0.144 | 0.145 | 0.145 |
| Net Coal Coke Imports | 0.004 | 0.001 | 0.001 | 0.002 | 0.003 | 0.003 | 0.004 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 | 0.009 |
| Coal Subtotal | 0.371 | 0.342 | 0.317 | 0.331 | 0.331 | 0.332 | 0.333 | 0.334 | 0.339 | 0.337 | 0.335 | 0.333 | 0.331 |
| Renewable Energy 13/ | 0.293 | 0.279 | 0.276 | 0.288 | 0.292 | 0.294 | 0.296 | 0.299 | 0.302 | 0.306 | 0.311 | 0.316 | 0.320 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 1.191 | 1.197 | 1.203 | 1.226 | 1.250 | 1.271 | 1.294 | 1.323 | 1.347 | 1.367 | 1.383 | 1.400 | 1.414 |
| Delivered Energy | 8.124 | 7.956 | 7.938 | 8.144 | 8.272 | 8.353 | 8.462 | 8.596 | 8.716 | 8.828 | 8.945 | 9.049 | 9.139 |
| Electricity Related Losses | 2.962 | 2.917 | 2.686 | 2.777 | 2.787 | 2.826 | 2.865 | 2.944 | 3.020 | 3.046 | 3.079 | 3.096 | 3.138 |
| Total | 11.086 | 10.873 | 10.624 | 10.921 | 11.059 | 11.179 | 11.327 | 11.540 | 11.736 | 11.874 | 12.024 | 12.145 | 12.277 |
| | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.010 | 0.017 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.009 | 0.009 | 0.010 |
| Residual Fuel | 0.208 | 0.214 | 0.129 | 0.090 | 0.088 | 0.086 | 0.088 | 0.087 | 0.088 | 0.092 | 0.100 | 0.105 | 0.110 |
| Petroleum Subtotal | 0.218 | 0.231 | 0.136 | 0.097 | 0.093 | 0.092 | 0.094 | 0.093 | 0.095 | 0.100 | 0.109 | 0.114 | 0.120 |
| Natural Gas | 0.541 | 0.539 | 0.472 | 0.514 | 0.543 | 0.565 | 0.562 | 0.589 | 0.644 | 0.677 | 0.694 | 0.731 | 0.762 |
| Steam Coal | 1.583 | 1.550 | 1.418 | 1.454 | 1.441 | 1.442 | 1.523 | 1.571 | 1.594 | 1.609 | 1.612 | 1.600 | 1.613 |
| Nuclear Power | 1.458 | 1.485 | 1.496 | 1.501 | 1.520 | 1.522 | 1.528 | 1.550 | 1.557 | 1.558 | 1.559 | 1.560 | 1.560 |
| Renewable Energy/Other 15/ | 0.263 | 0.226 | 0.262 | 0.303 | 0.318 | 0.349 | 0.361 | 0.366 | 0.369 | 0.371 | 0.375 | 0.381 | 0.383 |
| Electricity Imports | 0.091 | 0.082 | 0.106 | 0.135 | 0.122 | 0.127 | 0.090 | 0.098 | 0.108 | 0.099 | 0.113 | 0.111 | 0.114 |
| Total | 4.153 | 4.114 | 3.889 | 4.003 | 4.037 | 4.097 | 4.159 | 4.267 | 4.367 | 4.413 | 4.462 | 4.497 | 4.552 |

**Table 2. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Middle Atlantic**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | |
| Distillate Fuel | 1.089 | 1.114 | 1.075 | 1.127 | 1.138 | 1.151 | 1.168 | 1.183 | 1.197 | 1.208 | 1.223 | 1.235 | 1.246 |
| Kerosene | 0.041 | 0.043 | 0.032 | 0.035 | 0.035 | 0.035 | 0.034 | 0.034 | 0.034 | 0.034 | 0.033 | 0.033 | 0.032 |
| Jet Fuel 9/ | 0.360 | 0.345 | 0.338 | 0.332 | 0.329 | 0.335 | 0.344 | 0.352 | 0.362 | 0.371 | 0.379 | 0.388 | 0.397 |
| Liquefied Petroleum Gas | 0.083 | 0.078 | 0.082 | 0.081 | 0.081 | 0.081 | 0.082 | 0.083 | 0.084 | 0.086 | 0.087 | 0.091 | 0.104 |
| Motor Gasoline 2/ | 1.810 | 1.834 | 1.879 | 1.900 | 1.922 | 1.953 | 1.989 | 2.028 | 2.069 | 2.108 | 2.149 | 2.185 | 2.218 |
| Petrochemical Feedstocks | 0.149 | 0.129 | 0.137 | 0.142 | 0.143 | 0.142 | 0.144 | 0.147 | 0.151 | 0.155 | 0.160 | 0.164 | 0.168 |
| Residual Fuel | 0.448 | 0.443 | 0.312 | 0.277 | 0.262 | 0.262 | 0.264 | 0.262 | 0.263 | 0.267 | 0.276 | 0.280 | 0.285 |
| Other Petroleum 12/ | 0.411 | 0.423 | 0.443 | 0.429 | 0.435 | 0.430 | 0.423 | 0.428 | 0.426 | 0.430 | 0.434 | 0.438 | 0.443 |
| Petroleum Subtotal | 4.391 | 4.408 | 4.299 | 4.323 | 4.345 | 4.389 | 4.448 | 4.519 | 4.585 | 4.659 | 4.741 | 4.814 | 4.894 |
| Natural Gas | 2.581 | 2.447 | 2.408 | 2.542 | 2.644 | 2.679 | 2.701 | 2.756 | 2.832 | 2.885 | 2.925 | 2.976 | 3.007 |
| Lease and Plant Fuel 6/ | 0.006 | 0.006 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Pipeline Natural Gas | 0.050 | 0.047 | 0.037 | 0.040 | 0.041 | 0.042 | 0.042 | 0.043 | 0.045 | 0.047 | 0.048 | 0.049 | 0.050 |
| Natural Gas Subtotal | 2.637 | 2.500 | 2.450 | 2.586 | 2.689 | 2.725 | 2.747 | 2.804 | 2.882 | 2.937 | 2.978 | 3.030 | 3.062 |
| Metallurgical Coal | 0.220 | 0.199 | 0.179 | 0.189 | 0.188 | 0.188 | 0.188 | 0.187 | 0.190 | 0.186 | 0.183 | 0.180 | 0.176 |
| Steam Coal | 1.730 | 1.693 | 1.556 | 1.594 | 1.581 | 1.583 | 1.664 | 1.713 | 1.737 | 1.752 | 1.756 | 1.745 | 1.758 |
| Net Coal Coke Imports | 0.004 | 0.001 | 0.001 | 0.002 | 0.003 | 0.003 | 0.004 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 | 0.009 |
| Coal Subtotal | 1.954 | 1.893 | 1.735 | 1.785 | 1.772 | 1.774 | 1.856 | 1.905 | 1.933 | 1.945 | 1.947 | 1.933 | 1.944 |
| Nuclear Power | 1.458 | 1.485 | 1.496 | 1.501 | 1.520 | 1.522 | 1.528 | 1.550 | 1.557 | 1.558 | 1.559 | 1.560 | 1.560 |
| Renewable Energy 16/ | 0.556 | 0.505 | 0.538 | 0.592 | 0.610 | 0.643 | 0.657 | 0.664 | 0.670 | 0.676 | 0.686 | 0.697 | 0.703 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity Imports | 0.091 | 0.082 | 0.106 | 0.135 | 0.122 | 0.127 | 0.090 | 0.098 | 0.108 | 0.099 | 0.113 | 0.111 | 0.114 |
| Total | 11.086 | 10.873 | 10.624 | 10.921 | 11.059 | 11.179 | 11.327 | 11.540 | 11.736 | 11.874 | 12.024 | 12.145 | 12.277 |
| Energy Use & Related Statistics | | | | | | | | | | | | | |
| Delivered Energy Use | 8.124 | 7.956 | 7.938 | 8.144 | 8.272 | 8.353 | 8.462 | 8.596 | 8.716 | 8.828 | 8.945 | 9.049 | 9.139 |
| Total Energy Use | 11.086 | 10.873 | 10.624 | 10.921 | 11.059 | 11.179 | 11.327 | 11.540 | 11.736 | 11.874 | 12.024 | 12.145 | 12.277 |
| Population (millions) | 38.441 | 38.532 | 38.624 | 38.714 | 38.797 | 38.877 | 38.953 | 39.025 | 39.093 | 39.158 | 39.219 | 39.278 | 39.338 |
| US GDP (billion 1996 dollars) | 9191 | 9215 | 9440 | 9743 | 10074 | 10361 | 10667 | 11017 | 11408 | 11810 | 12258 | 12671 | 13082 |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1578.2 | 1558.6 | 1536.2 | 1567.9 | 1597.2 | 1623.7 | 1662.3 | 1699.7 | 1734.5 | 1765.8 | 1800.5 | 1832.6 | 1862.1 |

**Table 2. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Middle Atlantic**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | | |
| Distillate Fuel | 0.380 | 0.374 | 0.370 | 0.366 | 0.362 | 0.358 | 0.353 | 0.350 | 0.346 | 0.343 | 0.341 | 0.340 | 0.337 | -0.8% |
| Kerosene | 0.016 | 0.016 | 0.015 | 0.015 | 0.014 | 0.013 | 0.013 | 0.012 | 0.012 | 0.011 | 0.011 | 0.010 | 0.010 | -3.8% |
| Liquefied Petroleum Gas | 0.042 | 0.043 | 0.043 | 0.043 | 0.044 | 0.044 | 0.044 | 0.045 | 0.045 | 0.045 | 0.046 | 0.046 | 0.046 | 0.7% |
| Petroleum Subtotal | 0.438 | 0.433 | 0.428 | 0.424 | 0.419 | 0.415 | 0.411 | 0.407 | 0.403 | 0.399 | 0.397 | 0.396 | 0.392 | -0.7% |
| Natural Gas | 0.893 | 0.894 | 0.896 | 0.901 | 0.901 | 0.905 | 0.909 | 0.914 | 0.916 | 0.920 | 0.925 | 0.932 | 0.934 | 0.5% |
| Coal | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.5% |
| Renewable Energy 1/ | 0.081 | 0.080 | 0.079 | 0.079 | 0.078 | 0.077 | 0.076 | 0.076 | 0.075 | 0.074 | 0.074 | 0.073 | 0.073 | -0.6% |
| Electricity | 0.439 | 0.439 | 0.440 | 0.442 | 0.442 | 0.444 | 0.446 | 0.449 | 0.451 | 0.454 | 0.458 | 0.462 | 0.463 | 0.8% |
| Delivered Energy | 1.856 | 1.851 | 1.848 | 1.850 | 1.845 | 1.846 | 1.846 | 1.851 | 1.849 | 1.853 | 1.858 | 1.868 | 1.867 | 0.2% |
| Electricity Related Losses | 0.975 | 0.974 | 0.960 | 0.972 | 0.970 | 0.983 | 0.990 | 1.007 | 1.008 | 1.015 | 1.019 | 1.034 | 1.035 | 0.4% |
| Total | 2.831 | 2.825 | 2.808 | 2.823 | 2.815 | 2.829 | 2.836 | 2.859 | 2.857 | 2.868 | 2.877 | 2.902 | 2.902 | 0.3% |
| Commercial | | | | | | | | | | | | | | |
| Distillate Fuel | 0.134 | 0.133 | 0.132 | 0.131 | 0.131 | 0.130 | 0.129 | 0.128 | 0.127 | 0.126 | 0.125 | 0.124 | 0.123 | -0.5% |
| Residual Fuel | 0.030 | 0.030 | 0.030 | 0.030 | 0.029 | 0.029 | 0.029 | 0.029 | 0.030 | 0.030 | 0.030 | 0.029 | 0.029 | -2.9% |
| Kerosene | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | -0.9% |
| Liquefied Petroleum Gas | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.0% |
| Motor Gasoline 2/ | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | -1.2% |
| Petroleum Subtotal | 0.184 | 0.183 | 0.182 | 0.181 | 0.181 | 0.180 | 0.179 | 0.178 | 0.177 | 0.176 | 0.175 | 0.174 | 0.172 | -1.0% |
| Natural Gas | 0.493 | 0.495 | 0.498 | 0.500 | 0.502 | 0.505 | 0.508 | 0.510 | 0.513 | 0.515 | 0.517 | 0.516 | 0.515 | 0.7% |
| Coal | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.1% |
| Renewable Energy 3/ | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.0% |
| Electricity | 0.650 | 0.655 | 0.658 | 0.660 | 0.661 | 0.662 | 0.664 | 0.667 | 0.672 | 0.678 | 0.683 | 0.687 | 0.688 | 1.1% |
| Delivered Energy | 1.368 | 1.375 | 1.380 | 1.383 | 1.386 | 1.388 | 1.392 | 1.397 | 1.404 | 1.411 | 1.416 | 1.419 | 1.417 | 0.6% |
| Electricity Related Losses | 1.443 | 1.453 | 1.437 | 1.452 | 1.450 | 1.465 | 1.472 | 1.495 | 1.502 | 1.514 | 1.521 | 1.538 | 1.536 | 0.7% |
| Total | 2.811 | 2.828 | 2.816 | 2.835 | 2.836 | 2.854 | 2.864 | 2.891 | 2.906 | 2.925 | 2.938 | 2.957 | 2.953 | 0.6% |
| Industrial 4/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.067 | 0.067 | 0.068 | 0.068 | 0.069 | 0.069 | 0.070 | 0.070 | 0.071 | 0.071 | 0.072 | 0.073 | 0.074 | 0.5% |
| Liquefied Petroleum Gas | 0.074 | 0.076 | 0.083 | 0.084 | 0.086 | 0.090 | 0.096 | 0.097 | 0.098 | 0.097 | 0.098 | 0.098 | 0.103 | 5.4% |
| Petrochemical Feedstocks | 0.171 | 0.173 | 0.175 | 0.177 | 0.179 | 0.182 | 0.184 | 0.186 | 0.189 | 0.191 | 0.193 | 0.196 | 0.197 | 1.8% |
| Residual Fuel | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | -3.0% |
| Motor Gasoline 2/ | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.6% |
| Other Petroleum 5/ | 0.425 | 0.422 | 0.417 | 0.425 | 0.429 | 0.431 | 0.432 | 0.435 | 0.438 | 0.442 | 0.446 | 0.451 | 0.449 | 0.5% |
| Petroleum Subtotal | 0.762 | 0.764 | 0.768 | 0.778 | 0.788 | 0.796 | 0.808 | 0.814 | 0.821 | 0.828 | 0.835 | 0.844 | 0.849 | 1.0% |
| Natural Gas | 0.821 | 0.842 | 0.852 | 0.859 | 0.870 | 0.880 | 0.888 | 0.904 | 0.922 | 0.942 | 0.961 | 0.982 | 1.002 | 1.9% |
| Lease and Plant Fuel 6/ | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | -0.2% |
| Natural Gas Subtotal | 0.827 | 0.848 | 0.858 | 0.865 | 0.876 | 0.886 | 0.894 | 0.910 | 0.928 | 0.948 | 0.967 | 0.988 | 1.008 | 1.9% |
| Metallurgical Coal | 0.173 | 0.170 | 0.167 | 0.164 | 0.161 | 0.158 | 0.155 | 0.152 | 0.149 | 0.147 | 0.144 | 0.141 | 0.139 | -1.5% |
| Steam Coal | 0.124 | 0.124 | 0.125 | 0.125 | 0.125 | 0.124 | 0.125 | 0.124 | 0.124 | 0.124 | 0.124 | 0.124 | 0.124 | 0.1% |
| Net Coal Coke Imports | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 11.4% |
| Coal Subtotal | 0.307 | 0.305 | 0.302 | 0.299 | 0.296 | 0.293 | 0.291 | 0.287 | 0.285 | 0.282 | 0.280 | 0.277 | 0.274 | -0.7% |
| Renewable Energy 7/ | 0.217 | 0.222 | 0.225 | 0.228 | 0.232 | 0.236 | 0.240 | 0.244 | 0.248 | 0.252 | 0.257 | 0.261 | 0.266 | 1.9% |
| Electricity | 0.323 | 0.328 | 0.331 | 0.334 | 0.337 | 0.340 | 0.344 | 0.347 | 0.349 | 0.353 | 0.357 | 0.361 | 0.365 | 1.3% |
| Delivered Energy | 2.436 | 2.467 | 2.484 | 2.504 | 2.529 | 2.551 | 2.576 | 2.602 | 2.630 | 2.663 | 2.696 | 2.732 | 2.762 | 1.2% |
| Electricity Related Losses | 0.717 | 0.728 | 0.722 | 0.734 | 0.740 | 0.754 | 0.763 | 0.777 | 0.780 | 0.789 | 0.796 | 0.809 | 0.815 | 0.9% |
| Total | 3.153 | 3.194 | 3.206 | 3.238 | 3.269 | 3.305 | 3.339 | 3.379 | 3.410 | 3.452 | 3.491 | 3.541 | 3.576 | 1.1% |

**Table 2. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Middle Atlantic**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Transportation | | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.661 | 0.671 | 0.679 | 0.686 | 0.694 | 0.702 | 0.711 | 0.719 | 0.726 | 0.736 | 0.746 | 0.757 | 0.767 | 1.9% |
| Jet Fuel 9/ | 0.406 | 0.415 | 0.424 | 0.432 | 0.441 | 0.450 | 0.458 | 0.465 | 0.473 | 0.480 | 0.488 | 0.496 | 0.503 | 1.6% |
| Motor Gasoline 2/ | 2.236 | 2.263 | 2.287 | 2.309 | 2.329 | 2.351 | 2.375 | 2.393 | 2.409 | 2.428 | 2.451 | 2.477 | 2.499 | 1.3% |
| Residual Fuel | 0.130 | 0.130 | 0.129 | 0.129 | 0.128 | 0.128 | 0.128 | 0.127 | 0.127 | 0.126 | 0.126 | 0.126 | 0.125 | -0.5% |
| Liquefied Petroleum Gas | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 | 7.0% |
| Other Petroleum 10/ | 0.026 | 0.026 | 0.026 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.028 | 0.4% |
| Petroleum Subtotal | 3.466 | 3.513 | 3.554 | 3.591 | 3.628 | 3.666 | 3.708 | 3.740 | 3.771 | 3.808 | 3.848 | 3.893 | 3.933 | 1.4% |
| Pipeline Fuel Natural Gas | 0.049 | 0.050 | 0.050 | 0.051 | 0.051 | 0.051 | 0.052 | 0.053 | 0.053 | 0.054 | 0.055 | 0.056 | 0.056 | 0.7% |
| Compressed Natural Gas | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 9.3% |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 8.2% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 2.1% |
| Delivered Energy | 3.538 | 3.586 | 3.628 | 3.666 | 3.704 | 3.744 | 3.786 | 3.820 | 3.852 | 3.890 | 3.932 | 3.978 | 4.019 | 1.4% |
| Electricity Related Losses | 0.029 | 0.029 | 0.029 | 0.030 | 0.031 | 0.032 | 0.033 | 0.034 | 0.035 | 0.035 | 0.036 | 0.037 | 0.038 | 1.8% |
| Total | 3.567 | 3.615 | 3.657 | 3.696 | 3.735 | 3.775 | 3.819 | 3.854 | 3.887 | 3.926 | 3.968 | 4.015 | 4.057 | 1.4% |
| Delivered Energy Consumption, All Sector | | | | | | | | | | | | | | |
| Distillate Fuel | 1.241 | 1.246 | 1.248 | 1.251 | 1.255 | 1.259 | 1.263 | 1.267 | 1.270 | 1.276 | 1.283 | 1.294 | 1.301 | 0.7% |
| Kerosene | 0.032 | 0.031 | 0.030 | 0.030 | 0.029 | 0.029 | 0.028 | 0.028 | 0.027 | 0.026 | 0.026 | 0.025 | 0.025 | -2.2% |
| Jet Fuel 9/ | 0.406 | 0.415 | 0.424 | 0.432 | 0.441 | 0.450 | 0.458 | 0.465 | 0.473 | 0.480 | 0.488 | 0.496 | 0.503 | 1.6% |
| Liquefied Petroleum Gas | 0.131 | 0.133 | 0.140 | 0.142 | 0.144 | 0.149 | 0.156 | 0.157 | 0.159 | 0.159 | 0.160 | 0.161 | 0.166 | 3.2% |
| Motor Gasoline 2/ | 2.250 | 2.277 | 2.301 | 2.323 | 2.344 | 2.365 | 2.390 | 2.407 | 2.424 | 2.443 | 2.466 | 2.492 | 2.514 | 1.3% |
| Petrochemical Feedstocks | 0.171 | 0.173 | 0.175 | 0.177 | 0.179 | 0.182 | 0.184 | 0.186 | 0.189 | 0.191 | 0.193 | 0.196 | 0.197 | 1.8% |
| Residual Fuel | 0.174 | 0.174 | 0.173 | 0.173 | 0.172 | 0.172 | 0.171 | 0.171 | 0.171 | 0.170 | 0.170 | 0.170 | 0.169 | -1.3% |
| Other Petroleum 12/ | 0.445 | 0.444 | 0.438 | 0.446 | 0.451 | 0.453 | 0.454 | 0.457 | 0.460 | 0.465 | 0.469 | 0.474 | 0.472 | 0.5% |
| Petroleum Subtotal | 4.850 | 4.893 | 4.932 | 4.975 | 5.016 | 5.057 | 5.105 | 5.139 | 5.171 | 5.211 | 5.255 | 5.306 | 5.347 | 1.0% |
| Natural Gas | 2.216 | 2.241 | 2.256 | 2.270 | 2.285 | 2.301 | 2.316 | 2.340 | 2.361 | 2.389 | 2.415 | 2.443 | 2.463 | 1.1% |
| Lease and Plant Fuel 6/ | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | -0.2% |
| Pipeline Natural Gas | 0.049 | 0.050 | 0.050 | 0.051 | 0.051 | 0.051 | 0.052 | 0.053 | 0.053 | 0.054 | 0.055 | 0.056 | 0.056 | 0.7% |
| Natural Gas Subtotal | 2.271 | 2.297 | 2.312 | 2.327 | 2.342 | 2.358 | 2.374 | 2.399 | 2.421 | 2.450 | 2.476 | 2.505 | 2.526 | 1.1% |
| Metallurgical Coal | 0.173 | 0.170 | 0.167 | 0.164 | 0.161 | 0.158 | 0.155 | 0.152 | 0.149 | 0.147 | 0.144 | 0.141 | 0.139 | -1.5% |
| Steam Coal | 0.146 | 0.146 | 0.146 | 0.146 | 0.146 | 0.146 | 0.146 | 0.146 | 0.146 | 0.146 | 0.146 | 0.145 | 0.145 | 0.1% |
| Net Coal Coke Imports | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 11.4% |
| Coal Subtotal | 0.329 | 0.326 | 0.323 | 0.320 | 0.317 | 0.314 | 0.312 | 0.309 | 0.306 | 0.303 | 0.301 | 0.298 | 0.296 | -0.6% |
| Renewable Energy 13/ | 0.324 | 0.327 | 0.330 | 0.333 | 0.335 | 0.338 | 0.342 | 0.345 | 0.348 | 0.352 | 0.356 | 0.360 | 0.364 | 1.1% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 1.425 | 1.436 | 1.443 | 1.449 | 1.454 | 1.461 | 1.469 | 1.478 | 1.488 | 1.501 | 1.514 | 1.527 | 1.533 | 1.0% |
| Delivered Energy | 9.198 | 9.279 | 9.339 | 9.403 | 9.464 | 9.529 | 9.601 | 9.670 | 9.735 | 9.817 | 9.902 | 9.997 | 10.065 | 1.0% |
| Electricity Related Losses | 3.164 | 3.184 | 3.148 | 3.188 | 3.191 | 3.234 | 3.257 | 3.312 | 3.325 | 3.353 | 3.372 | 3.419 | 3.424 | 0.7% |
| Total | 12.362 | 12.462 | 12.488 | 12.591 | 12.655 | 12.763 | 12.858 | 12.983 | 13.060 | 13.170 | 13.274 | 13.416 | 13.489 | 0.9% |
| Electric Generators 14/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.010 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | -2.2% |
| Residual Fuel | 0.115 | 0.116 | 0.118 | 0.118 | 0.117 | 0.116 | 0.117 | 0.119 | 0.119 | 0.119 | 0.120 | 0.120 | 0.121 | -2.4% |
| Petroleum Subtotal | 0.125 | 0.126 | 0.128 | 0.128 | 0.127 | 0.126 | 0.126 | 0.129 | 0.129 | 0.129 | 0.130 | 0.130 | 0.131 | -2.4% |
| Natural Gas | 0.784 | 0.811 | 0.851 | 0.887 | 0.903 | 0.936 | 0.981 | 1.026 | 1.063 | 1.111 | 1.151 | 1.174 | 1.188 | 3.3% |
| Steam Coal | 1.628 | 1.636 | 1.644 | 1.652 | 1.657 | 1.691 | 1.691 | 1.696 | 1.696 | 1.699 | 1.697 | 1.733 | 1.732 | 0.5% |
| Nuclear Power | 1.561 | 1.561 | 1.475 | 1.486 | 1.487 | 1.487 | 1.488 | 1.488 | 1.489 | 1.489 | 1.489 | 1.489 | 1.489 | 0.0% |
| Renewable Energy/Other 15/ | 0.385 | 0.387 | 0.389 | 0.388 | 0.386 | 0.384 | 0.384 | 0.384 | 0.384 | 0.385 | 0.385 | 0.388 | 0.389 | 2.3% |
| Electricity Imports | 0.107 | 0.098 | 0.105 | 0.096 | 0.085 | 0.071 | 0.056 | 0.067 | 0.053 | 0.042 | 0.034 | 0.032 | 0.027 | -4.5% |
| Total | 4.589 | 4.620 | 4.591 | 4.637 | 4.645 | 4.695 | 4.726 | 4.791 | 4.814 | 4.854 | 4.886 | 4.946 | 4.957 | 0.8% |
| Total Energy Consumption | | | | | | | | | | | | | | |

**Table 2. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Middle Atlantic**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 1.251 | 1.255 | 1.258 | 1.261 | 1.265 | 1.269 | 1.273 | 1.277 | 1.279 | 1.286 | 1.293 | 1.304 | 1.310 | 0.7% |
| Kerosene | 0.032 | 0.031 | 0.030 | 0.030 | 0.029 | 0.029 | 0.028 | 0.028 | 0.027 | 0.026 | 0.026 | 0.025 | 0.025 | -2.2% |
| Jet Fuel 9/ | 0.406 | 0.415 | 0.424 | 0.432 | 0.441 | 0.450 | 0.458 | 0.465 | 0.473 | 0.480 | 0.488 | 0.496 | 0.503 | 1.6% |
| Liquefied Petroleum Gas | 0.131 | 0.133 | 0.140 | 0.142 | 0.144 | 0.149 | 0.156 | 0.157 | 0.159 | 0.159 | 0.160 | 0.161 | 0.166 | 3.2% |
| Motor Gasoline 2/ | 2.250 | 2.277 | 2.301 | 2.323 | 2.344 | 2.365 | 2.390 | 2.407 | 2.424 | 2.443 | 2.466 | 2.492 | 2.514 | 1.3% |
| Petrochemical Feedstocks | 0.171 | 0.173 | 0.175 | 0.177 | 0.179 | 0.182 | 0.184 | 0.186 | 0.189 | 0.191 | 0.193 | 0.196 | 0.197 | 1.8% |
| Residual Fuel | 0.289 | 0.290 | 0.291 | 0.291 | 0.289 | 0.288 | 0.288 | 0.290 | 0.290 | 0.289 | 0.290 | 0.290 | 0.290 | -1.8% |
| Other Petroleum 12/ | 0.445 | 0.444 | 0.438 | 0.446 | 0.451 | 0.453 | 0.454 | 0.457 | 0.460 | 0.465 | 0.469 | 0.474 | 0.472 | 0.5% |
| Petroleum Subtotal | 4.975 | 5.018 | 5.059 | 5.103 | 5.143 | 5.183 | 5.231 | 5.268 | 5.300 | 5.339 | 5.385 | 5.437 | 5.478 | 0.9% |
| Natural Gas | 3.000 | 3.052 | 3.107 | 3.157 | 3.188 | 3.237 | 3.296 | 3.366 | 3.424 | 3.501 | 3.566 | 3.617 | 3.652 | 1.7% |
| Lease and Plant Fuel 6/ | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | -0.2% |
| Pipeline Natural Gas | 0.049 | 0.050 | 0.050 | 0.051 | 0.051 | 0.051 | 0.052 | 0.053 | 0.053 | 0.054 | 0.055 | 0.056 | 0.056 | 0.7% |
| Natural Gas Subtotal | 3.055 | 3.107 | 3.163 | 3.214 | 3.245 | 3.294 | 3.355 | 3.425 | 3.484 | 3.561 | 3.627 | 3.679 | 3.714 | 1.7% |
| Metallurgical Coal | 0.173 | 0.170 | 0.167 | 0.164 | 0.161 | 0.158 | 0.155 | 0.152 | 0.149 | 0.147 | 0.144 | 0.141 | 0.139 | -1.5% |
| Steam Coal | 1.773 | 1.782 | 1.790 | 1.798 | 1.803 | 1.837 | 1.837 | 1.842 | 1.842 | 1.845 | 1.843 | 1.878 | 1.878 | 0.4% |
| Net Coal Coke Imports | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 11.4% |
| Coal Subtotal | 1.956 | 1.962 | 1.967 | 1.972 | 1.974 | 2.005 | 2.003 | 2.005 | 2.002 | 2.003 | 1.998 | 2.031 | 2.028 | 0.3% |
| Nuclear Power | 1.561 | 1.561 | 1.475 | 1.486 | 1.487 | 1.487 | 1.488 | 1.488 | 1.489 | 1.489 | 1.489 | 1.489 | 1.489 | 0.0% |
| Renewable Energy 16/ | 0.709 | 0.714 | 0.718 | 0.720 | 0.721 | 0.722 | 0.726 | 0.729 | 0.732 | 0.737 | 0.741 | 0.749 | 0.753 | 1.7% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity Imports | 0.107 | 0.098 | 0.105 | 0.096 | 0.085 | 0.071 | 0.056 | 0.067 | 0.053 | 0.042 | 0.034 | 0.032 | 0.027 | -4.5% |
| Total | 12.362 | 12.462 | 12.488 | 12.591 | 12.655 | 12.763 | 12.858 | 12.983 | 13.060 | 13.170 | 13.274 | 13.416 | 13.489 | 0.9% |
| Energy Use & Related Statistics | | | | | | | | | | | | | | |
| Delivered Energy Use | 9.198 | 9.279 | 9.339 | 9.403 | 9.464 | 9.529 | 9.601 | 9.670 | 9.735 | 9.817 | 9.902 | 9.997 | 10.065 | 1.0% |
| Total Energy Use | 12.362 | 12.462 | 12.488 | 12.591 | 12.655 | 12.763 | 12.858 | 12.983 | 13.060 | 13.170 | 13.274 | 13.416 | 13.489 | 0.9% |
| Population (millions) | 39.398 | 39.459 | 39.519 | 39.578 | 39.637 | 39.696 | 39.755 | 39.813 | 39.873 | 39.935 | 40.000 | 40.067 | 40.135 | 0.2% |
| US GDP (billion 1996 dollars) | 13480 | 13893 | 14288 | 14681 | 15101 | 15540 | 16013 | 16450 | 16888 | 17363 | 17858 | 18389 | 18917 | 3.0% |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1889.2 | 1915.7 | 1944.2 | 1970.2 | 1996.8 | 2024.6 | 2055.5 | 2082.5 | 2108.3 | 2139.7 | 2170.8 | 2204.3 | 2236.9 | 1.5% |

**Table 2. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Middle Atlantic**

1/ Includes wood used for residential heating. See Table A18 estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.
2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.
3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.
4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.
5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.
6/ Represents natural gas used in the field gathering and processing plant machinery.
7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.
8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.
9/ Includes only kerosene type.
10/ Includes aviation gasoline and lubricants.
11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.
13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.
16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.
Sources: 2000 and 2001 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). 2000 and 2001 population and gross domestic product: Global Insight macroeconomic model CTL0802. 2000 and 2001 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2001, DOE/EIA-0573(2001) (Washington, DC, December 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 3. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East North Central)**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | |
| Distillate Fuel | 0.056 | 0.058 | 0.057 | 0.061 | 0.061 | 0.061 | 0.061 | 0.061 | 0.061 | 0.060 | 0.059 | 0.059 | 0.058 |
| Kerosene | 0.008 | 0.008 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 |
| Liquefied Petroleum Gas | 0.136 | 0.124 | 0.133 | 0.125 | 0.126 | 0.125 | 0.126 | 0.126 | 0.127 | 0.126 | 0.126 | 0.126 | 0.127 |
| Petroleum Subtotal | 0.200 | 0.191 | 0.196 | 0.194 | 0.194 | 0.194 | 0.195 | 0.195 | 0.195 | 0.194 | 0.193 | 0.192 | 0.192 |
| Natural Gas | 1.502 | 1.428 | 1.464 | 1.550 | 1.572 | 1.578 | 1.593 | 1.602 | 1.614 | 1.614 | 1.618 | 1.618 | 1.627 |
| Coal | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Renewable Energy 1/ | 0.041 | 0.038 | 0.040 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.043 | 0.043 | 0.043 | 0.043 | 0.043 |
| Electricity | 0.588 | 0.605 | 0.631 | 0.649 | 0.662 | 0.673 | 0.685 | 0.699 | 0.715 | 0.726 | 0.738 | 0.747 | 0.757 |
| Delivered Energy | 2.334 | 2.265 | 2.333 | 2.438 | 2.473 | 2.489 | 2.518 | 2.541 | 2.568 | 2.579 | 2.594 | 2.603 | 2.621 |
| Electricity Related Losses | 1.383 | 1.402 | 1.528 | 1.575 | 1.593 | 1.611 | 1.650 | 1.672 | 1.693 | 1.732 | 1.744 | 1.766 | 1.781 |
| Total | 3.717 | 3.667 | 3.861 | 4.014 | 4.066 | 4.100 | 4.168 | 4.214 | 4.261 | 4.311 | 4.338 | 4.369 | 4.403 |
| Commercial | | | | | | | | | | | | | |
| Distillate Fuel | 0.047 | 0.048 | 0.049 | 0.049 | 0.051 | 0.052 | 0.053 | 0.053 | 0.053 | 0.053 | 0.054 | 0.054 | 0.054 |
| Residual Fuel | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Kerosene | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Liquefied Petroleum Gas | 0.024 | 0.022 | 0.023 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 |
| Motor Gasoline 2/ | 0.010 | 0.010 | 0.010 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 |
| Petroleum Subtotal | 0.086 | 0.084 | 0.085 | 0.081 | 0.082 | 0.083 | 0.084 | 0.085 | 0.085 | 0.085 | 0.086 | 0.086 | 0.086 |
| Natural Gas | 0.810 | 0.806 | 0.807 | 0.848 | 0.867 | 0.875 | 0.881 | 0.883 | 0.882 | 0.879 | 0.874 | 0.872 | 0.872 |
| Coal | 0.023 | 0.023 | 0.023 | 0.022 | 0.022 | 0.022 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 |
| Renewable Energy 3/ | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 |
| Electricity | 0.540 | 0.569 | 0.594 | 0.590 | 0.602 | 0.612 | 0.622 | 0.632 | 0.639 | 0.646 | 0.651 | 0.657 | 0.663 |
| Delivered Energy | 1.475 | 1.497 | 1.525 | 1.557 | 1.588 | 1.607 | 1.626 | 1.638 | 1.644 | 1.648 | 1.650 | 1.654 | 1.660 |
| Electricity Related Losses | 1.271 | 1.316 | 1.440 | 1.432 | 1.449 | 1.466 | 1.498 | 1.510 | 1.513 | 1.540 | 1.539 | 1.553 | 1.559 |
| Total | 2.746 | 2.814 | 2.965 | 2.989 | 3.037 | 3.073 | 3.124 | 3.148 | 3.157 | 3.188 | 3.189 | 3.208 | 3.219 |
| Industrial 4/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.166 | 0.167 | 0.161 | 0.162 | 0.164 | 0.165 | 0.166 | 0.169 | 0.173 | 0.176 | 0.179 | 0.182 | 0.184 |
| Liquefied Petroleum Gas | 0.090 | 0.083 | 0.087 | 0.088 | 0.087 | 0.087 | 0.088 | 0.089 | 0.091 | 0.093 | 0.096 | 0.098 | 0.100 |
| Petrochemical Feedstocks | 0.202 | 0.175 | 0.186 | 0.192 | 0.195 | 0.196 | 0.199 | 0.204 | 0.209 | 0.215 | 0.221 | 0.227 | 0.233 |
| Residual Fuel | 0.020 | 0.020 | 0.017 | 0.018 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 |
| Motor Gasoline 2/ | 0.024 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.026 | 0.026 | 0.027 | 0.027 |
| Other Petroleum 5/ | 0.662 | 0.678 | 0.702 | 0.677 | 0.724 | 0.720 | 0.719 | 0.728 | 0.731 | 0.739 | 0.742 | 0.742 | 0.743 |
| Petroleum Subtotal | 1.165 | 1.147 | 1.179 | 1.162 | 1.205 | 1.202 | 1.207 | 1.226 | 1.240 | 1.260 | 1.275 | 1.287 | 1.298 |
| Natural Gas | 1.308 | 1.175 | 1.235 | 1.255 | 1.330 | 1.340 | 1.367 | 1.388 | 1.399 | 1.423 | 1.462 | 1.498 | 1.521 |
| Lease and Plant Fuel 6/ | 0.012 | 0.012 | 0.015 | 0.015 | 0.014 | 0.013 | 0.012 | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 | 0.010 |
| Natural Gas Subtotal | 1.320 | 1.187 | 1.250 | 1.270 | 1.344 | 1.352 | 1.379 | 1.399 | 1.410 | 1.434 | 1.472 | 1.508 | 1.531 |
| Metallurgical Coal | 0.378 | 0.341 | 0.307 | 0.324 | 0.324 | 0.323 | 0.323 | 0.322 | 0.326 | 0.320 | 0.315 | 0.309 | 0.303 |
| Steam Coal | 0.360 | 0.349 | 0.330 | 0.337 | 0.338 | 0.338 | 0.338 | 0.341 | 0.345 | 0.347 | 0.349 | 0.351 | 0.353 |
| Net Coal Coke Imports | 0.044 | 0.017 | 0.013 | 0.024 | 0.029 | 0.031 | 0.037 | 0.043 | 0.048 | 0.055 | 0.063 | 0.070 | 0.075 |
| Coal Subtotal | 0.783 | 0.708 | 0.650 | 0.684 | 0.691 | 0.693 | 0.698 | 0.706 | 0.719 | 0.722 | 0.727 | 0.730 | 0.732 |
| Renewable Energy 7/ | 0.341 | 0.334 | 0.330 | 0.344 | 0.356 | 0.365 | 0.373 | 0.385 | 0.395 | 0.409 | 0.425 | 0.440 | 0.453 |
| Electricity | 0.776 | 0.721 | 0.671 | 0.708 | 0.728 | 0.739 | 0.756 | 0.779 | 0.802 | 0.820 | 0.841 | 0.861 | 0.878 |

**Table 3. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East North Central)**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Delivered Energy | 4.385 | 4.097 | 4.080 | 4.169 | 4.323 | 4.350 | 4.413 | 4.494 | 4.566 | 4.644 | 4.741 | 4.826 | 4.892 |
| Electricity Related Losses | 1.826 | 1.669 | 1.626 | 1.717 | 1.750 | 1.768 | 1.821 | 1.862 | 1.898 | 1.955 | 1.987 | 2.035 | 2.065 |
| Total | 6.211 | 5.767 | 5.706 | 5.886 | 6.073 | 6.118 | 6.234 | 6.357 | 6.465 | 6.599 | 6.728 | 6.861 | 6.956 |
| | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.875 | 0.891 | 0.886 | 0.914 | 0.942 | 0.962 | 0.989 | 1.018 | 1.046 | 1.076 | 1.109 | 1.139 | 1.163 |
| Jet Fuel 9/ | 0.343 | 0.328 | 0.322 | 0.316 | 0.313 | 0.319 | 0.326 | 0.334 | 0.342 | 0.351 | 0.359 | 0.367 | 0.375 |
| Motor Gasoline 2/ | 2.568 | 2.602 | 2.665 | 2.696 | 2.729 | 2.776 | 2.832 | 2.893 | 2.955 | 3.014 | 3.075 | 3.131 | 3.182 |
| Residual Fuel | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Liquefied Petroleum Gas | 0.003 | 0.003 | 0.004 | 0.005 | 0.006 | 0.006 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.009 | 0.010 |
| Other Petroleum 10/ | 0.031 | 0.033 | 0.034 | 0.034 | 0.034 | 0.033 | 0.033 | 0.034 | 0.034 | 0.034 | 0.034 | 0.035 | 0.035 |
| Petroleum Subtotal | 3.822 | 3.860 | 3.914 | 3.968 | 4.026 | 4.099 | 4.190 | 4.287 | 4.386 | 4.485 | 4.588 | 4.683 | 4.768 |
| Pipeline Fuel Natural Gas | 0.070 | 0.066 | 0.058 | 0.063 | 0.065 | 0.066 | 0.067 | 0.068 | 0.070 | 0.073 | 0.074 | 0.076 | 0.076 |
| Compressed Natural Gas | 0.001 | 0.002 | 0.002 | 0.003 | 0.004 | 0.005 | 0.005 | 0.006 | 0.007 | 0.007 | 0.008 | 0.009 | 0.009 |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.012 | 0.012 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 |
| Delivered Energy | 3.904 | 3.940 | 3.987 | 4.047 | 4.108 | 4.183 | 4.276 | 4.375 | 4.477 | 4.580 | 4.686 | 4.783 | 4.869 |
| Electricity Related Losses | 0.028 | 0.028 | 0.030 | 0.030 | 0.031 | 0.031 | 0.032 | 0.032 | 0.033 | 0.034 | 0.034 | 0.035 | 0.036 |
| Total | 3.932 | 3.968 | 4.017 | 4.077 | 4.138 | 4.214 | 4.308 | 4.408 | 4.510 | 4.614 | 4.720 | 4.818 | 4.905 |
| | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | |
| Distillate Fuel | 1.144 | 1.165 | 1.154 | 1.187 | 1.218 | 1.240 | 1.269 | 1.301 | 1.333 | 1.365 | 1.401 | 1.433 | 1.459 |
| Kerosene | 0.013 | 0.014 | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.013 | 0.012 | 0.012 | 0.012 | 0.012 |
| Jet Fuel 9/ | 0.343 | 0.328 | 0.322 | 0.316 | 0.313 | 0.319 | 0.326 | 0.334 | 0.342 | 0.351 | 0.359 | 0.367 | 0.375 |
| Liquefied Petroleum Gas | 0.254 | 0.232 | 0.247 | 0.240 | 0.240 | 0.241 | 0.243 | 0.245 | 0.248 | 0.250 | 0.253 | 0.256 | 0.259 |
| Motor Gasoline 2/ | 2.602 | 2.637 | 2.701 | 2.728 | 2.760 | 2.807 | 2.864 | 2.925 | 2.987 | 3.047 | 3.108 | 3.164 | 3.216 |
| Petrochemical Feedstocks | 0.202 | 0.175 | 0.186 | 0.192 | 0.195 | 0.196 | 0.199 | 0.204 | 0.209 | 0.215 | 0.221 | 0.227 | 0.233 |
| Residual Fuel | 0.024 | 0.024 | 0.020 | 0.021 | 0.013 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.014 | 0.015 |
| Other Petroleum 12/ | 0.690 | 0.708 | 0.733 | 0.708 | 0.755 | 0.750 | 0.749 | 0.758 | 0.761 | 0.770 | 0.773 | 0.773 | 0.775 |
| Petroleum Subtotal | 5.273 | 5.283 | 5.374 | 5.406 | 5.507 | 5.578 | 5.676 | 5.792 | 5.906 | 6.024 | 6.142 | 6.248 | 6.344 |
| Natural Gas | 3.621 | 3.411 | 3.509 | 3.657 | 3.772 | 3.797 | 3.847 | 3.880 | 3.901 | 3.923 | 3.963 | 3.998 | 4.030 |
| Lease and Plant Fuel 6/ | 0.012 | 0.012 | 0.015 | 0.015 | 0.014 | 0.013 | 0.012 | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 | 0.010 |
| Pipeline Natural Gas | 0.070 | 0.066 | 0.058 | 0.063 | 0.065 | 0.066 | 0.067 | 0.068 | 0.070 | 0.073 | 0.074 | 0.076 | 0.076 |
| Natural Gas Subtotal | 3.703 | 3.489 | 3.582 | 3.735 | 3.851 | 3.875 | 3.925 | 3.959 | 3.982 | 4.006 | 4.047 | 4.083 | 4.116 |
| Metallurgical Coal | 0.378 | 0.341 | 0.307 | 0.324 | 0.324 | 0.323 | 0.323 | 0.322 | 0.326 | 0.320 | 0.315 | 0.309 | 0.303 |
| Steam Coal | 0.386 | 0.375 | 0.356 | 0.362 | 0.363 | 0.363 | 0.364 | 0.367 | 0.370 | 0.372 | 0.375 | 0.377 | 0.380 |
| Net Coal Coke Imports | 0.044 | 0.017 | 0.013 | 0.024 | 0.029 | 0.031 | 0.037 | 0.043 | 0.048 | 0.055 | 0.063 | 0.070 | 0.075 |
| Coal Subtotal | 0.808 | 0.734 | 0.676 | 0.709 | 0.716 | 0.718 | 0.723 | 0.732 | 0.745 | 0.747 | 0.752 | 0.756 | 0.758 |
| Renewable Energy 13/ | 0.398 | 0.387 | 0.385 | 0.402 | 0.414 | 0.422 | 0.431 | 0.443 | 0.454 | 0.467 | 0.483 | 0.498 | 0.512 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 1.916 | 1.907 | 1.909 | 1.959 | 2.005 | 2.037 | 2.077 | 2.123 | 2.169 | 2.206 | 2.245 | 2.280 | 2.312 |
| Delivered Energy | 12.098 | 11.800 | 11.924 | 12.211 | 12.492 | 12.630 | 12.833 | 13.049 | 13.256 | 13.451 | 13.670 | 13.866 | 14.043 |
| Electricity Related Losses | 4.508 | 4.415 | 4.624 | 4.755 | 4.822 | 4.876 | 5.000 | 5.077 | 5.137 | 5.261 | 5.304 | 5.389 | 5.440 |
| Total | 16.606 | 16.215 | 16.548 | 16.966 | 17.314 | 17.506 | 17.833 | 18.126 | 18.392 | 18.711 | 18.975 | 19.255 | 19.483 |
| | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.004 | 0.007 | 0.004 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 |
| Residual Fuel | 0.025 | 0.029 | 0.001 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Petroleum Subtotal | 0.029 | 0.036 | 0.005 | 0.008 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 |
| Natural Gas | 0.231 | 0.226 | 0.470 | 0.483 | 0.537 | 0.551 | 0.557 | 0.549 | 0.626 | 0.711 | 0.727 | 0.785 | 0.817 |
| Steam Coal | 4.584 | 4.466 | 4.410 | 4.570 | 4.618 | 4.675 | 4.815 | 4.973 | 5.103 | 5.171 | 5.231 | 5.289 | 5.340 |
| Nuclear Power | 1.496 | 1.524 | 1.568 | 1.579 | 1.586 | 1.592 | 1.602 | 1.576 | 1.473 | 1.475 | 1.476 | 1.477 | 1.477 |
| Renewable Energy/Other 15/ | 0.081 | 0.086 | 0.099 | 0.100 | 0.101 | 0.112 | 0.114 | 0.115 | 0.117 | 0.123 | 0.130 | 0.133 | 0.133 |
| Electricity Imports | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Table 3. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East North Central)**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 6.424 | 6.322 | 6.533 | 6.714 | 6.827 | 6.913 | 7.078 | 7.200 | 7.306 | 7.466 | 7.549 | 7.669 | 7.753 |
| Total Energy Consumption | | | | | | | | | | | | | |
| Distillate Fuel | 1.148 | 1.172 | 1.158 | 1.194 | 1.224 | 1.246 | 1.275 | 1.307 | 1.339 | 1.371 | 1.407 | 1.439 | 1.466 |
| Kerosene | 0.013 | 0.014 | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.013 | 0.012 | 0.012 | 0.012 | 0.012 |
| Jet Fuel 9/ | 0.343 | 0.328 | 0.322 | 0.316 | 0.313 | 0.319 | 0.326 | 0.334 | 0.342 | 0.351 | 0.359 | 0.367 | 0.375 |
| Liquefied Petroleum Gas | 0.254 | 0.232 | 0.247 | 0.240 | 0.240 | 0.241 | 0.243 | 0.245 | 0.248 | 0.250 | 0.253 | 0.256 | 0.259 |
| Motor Gasoline 2/ | 2.602 | 2.637 | 2.701 | 2.728 | 2.760 | 2.807 | 2.864 | 2.925 | 2.987 | 3.047 | 3.108 | 3.164 | 3.216 |
| Petrochemical Feedstocks | 0.202 | 0.175 | 0.186 | 0.192 | 0.195 | 0.196 | 0.199 | 0.204 | 0.209 | 0.215 | 0.221 | 0.227 | 0.233 |
| Residual Fuel | 0.050 | 0.053 | 0.021 | 0.022 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 |
| Other Petroleum 12/ | 0.690 | 0.708 | 0.733 | 0.708 | 0.755 | 0.750 | 0.749 | 0.758 | 0.761 | 0.770 | 0.773 | 0.773 | 0.775 |
| Petroleum Subtotal | 5.302 | 5.319 | 5.379 | 5.413 | 5.514 | 5.584 | 5.682 | 5.798 | 5.913 | 6.031 | 6.149 | 6.254 | 6.351 |
| Natural Gas | 3.852 | 3.637 | 3.979 | 4.140 | 4.309 | 4.348 | 4.404 | 4.428 | 4.527 | 4.634 | 4.690 | 4.783 | 4.847 |
| Lease and Plant Fuel 6/ | 0.012 | 0.012 | 0.015 | 0.015 | 0.014 | 0.013 | 0.012 | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 | 0.010 |
| Pipeline Natural Gas | 0.070 | 0.066 | 0.058 | 0.063 | 0.065 | 0.066 | 0.067 | 0.068 | 0.070 | 0.073 | 0.074 | 0.076 | 0.076 |
| Natural Gas Subtotal | 3.933 | 3.715 | 4.052 | 4.218 | 4.388 | 4.426 | 4.483 | 4.507 | 4.608 | 4.717 | 4.774 | 4.868 | 4.933 |
| Metallurgical Coal | 0.378 | 0.341 | 0.307 | 0.324 | 0.324 | 0.323 | 0.323 | 0.322 | 0.326 | 0.320 | 0.315 | 0.309 | 0.303 |
| Steam Coal | 4.969 | 4.841 | 4.766 | 4.931 | 4.981 | 5.038 | 5.179 | 5.340 | 5.474 | 5.543 | 5.606 | 5.667 | 5.720 |
| Net Coal Coke Imports | 0.044 | 0.017 | 0.013 | 0.024 | 0.029 | 0.031 | 0.037 | 0.043 | 0.048 | 0.055 | 0.063 | 0.070 | 0.075 |
| Coal Subtotal | 5.392 | 5.200 | 5.086 | 5.279 | 5.334 | 5.393 | 5.539 | 5.705 | 5.848 | 5.918 | 5.983 | 6.046 | 6.098 |
| Nuclear Power | 1.496 | 1.524 | 1.568 | 1.579 | 1.586 | 1.592 | 1.602 | 1.576 | 1.473 | 1.475 | 1.476 | 1.477 | 1.477 |
| Renewable Energy 16/ | 0.479 | 0.473 | 0.484 | 0.502 | 0.515 | 0.534 | 0.545 | 0.558 | 0.571 | 0.590 | 0.613 | 0.631 | 0.645 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity Imports | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 16.606 | 16.231 | 16.568 | 16.991 | 17.337 | 17.530 | 17.850 | 18.144 | 18.413 | 18.730 | 18.996 | 19.276 | 19.505 |
| Energy Use & Related Statistics | | | | | | | | | | | | | |
| Delivered Energy Use | 12.098 | 11.800 | 11.924 | 12.211 | 12.492 | 12.630 | 12.833 | 13.049 | 13.256 | 13.451 | 13.670 | 13.866 | 14.043 |
| Total Energy Use | 16.606 | 16.215 | 16.548 | 16.966 | 17.314 | 17.506 | 17.833 | 18.126 | 18.392 | 18.711 | 18.975 | 19.255 | 19.483 |
| Population (millions) | 44.698 | 44.904 | 45.110 | 45.302 | 45.491 | 45.680 | 45.868 | 46.046 | 46.202 | 46.335 | 46.464 | 46.591 | 46.719 |
| US GDP (billion 1996 dollars) | 9191 | 9215 | 9440 | 9743 | 10074 | 10361 | 10667 | 11017 | 11408 | 11810 | 12258 | 12671 | 13082 |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1578.2 | 1558.6 | 1536.2 | 1567.9 | 1597.2 | 1623.7 | 1662.3 | 1699.7 | 1734.5 | 1765.8 | 1800.5 | 1832.6 | 1862.1 |

**Table 3. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East North Central)**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | | |
| Distillate Fuel | 0.057 | 0.056 | 0.055 | 0.055 | 0.054 | 0.053 | 0.052 | 0.051 | 0.050 | 0.049 | 0.048 | 0.047 | 0.047 | -0.9% |
| Kerosene | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.004 | -2.7% |
| Liquefied Petroleum Gas | 0.127 | 0.128 | 0.128 | 0.129 | 0.129 | 0.129 | 0.130 | 0.131 | 0.131 | 0.131 | 0.132 | 0.133 | 0.133 | 0.3% |
| Petroleum Subtotal | 0.191 | 0.190 | 0.190 | 0.190 | 0.188 | 0.188 | 0.187 | 0.187 | 0.186 | 0.185 | 0.184 | 0.185 | 0.184 | -0.2% |
| Natural Gas | 1.628 | 1.634 | 1.641 | 1.653 | 1.657 | 1.669 | 1.682 | 1.696 | 1.703 | 1.716 | 1.728 | 1.744 | 1.749 | 0.8% |
| Coal | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | 0.5% |
| Renewable Energy 1/ | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.042 | 0.3% |
| Electricity | 0.763 | 0.772 | 0.782 | 0.792 | 0.800 | 0.809 | 0.820 | 0.831 | 0.838 | 0.847 | 0.859 | 0.870 | 0.880 | 1.6% |
| Delivered Energy | 2.627 | 2.640 | 2.657 | 2.680 | 2.691 | 2.711 | 2.733 | 2.758 | 2.772 | 2.793 | 2.816 | 2.843 | 2.857 | 1.0% |
| Electricity Related Losses | 1.790 | 1.788 | 1.801 | 1.813 | 1.826 | 1.821 | 1.845 | 1.859 | 1.875 | 1.877 | 1.899 | 1.880 | 1.887 | 1.2% |
| Total | 4.417 | 4.429 | 4.458 | 4.493 | 4.516 | 4.532 | 4.579 | 4.618 | 4.646 | 4.669 | 4.715 | 4.722 | 4.744 | 1.1% |
| Commercial | | | | | | | | | | | | | | |
| Distillate Fuel | 0.054 | 0.054 | 0.054 | 0.054 | 0.054 | 0.054 | 0.054 | 0.054 | 0.054 | 0.054 | 0.054 | 0.054 | 0.054 | 0.5% |
| Residual Fuel | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | -1.6% |
| Kerosene | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | -1.1% |
| Liquefied Petroleum Gas | 0.022 | 0.022 | 0.022 | 0.022 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.2% |
| Motor Gasoline 2/ | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | -1.4% |
| Petroleum Subtotal | 0.086 | 0.086 | 0.086 | 0.086 | 0.086 | 0.086 | 0.086 | 0.086 | 0.087 | 0.087 | 0.087 | 0.087 | 0.088 | 0.2% |
| Natural Gas | 0.874 | 0.876 | 0.880 | 0.885 | 0.891 | 0.898 | 0.906 | 0.913 | 0.921 | 0.930 | 0.939 | 0.948 | 0.958 | 0.7% |
| Coal | 0.023 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.026 | 0.4% |
| Renewable Energy 3/ | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.0% |
| Electricity | 0.669 | 0.676 | 0.685 | 0.693 | 0.702 | 0.712 | 0.723 | 0.734 | 0.747 | 0.759 | 0.774 | 0.787 | 0.804 | 1.5% |
| Delivered Energy | 1.668 | 1.678 | 1.690 | 1.703 | 1.719 | 1.736 | 1.755 | 1.773 | 1.795 | 1.817 | 1.840 | 1.863 | 1.890 | 1.0% |
| Electricity Related Losses | 1.570 | 1.568 | 1.577 | 1.585 | 1.603 | 1.603 | 1.628 | 1.642 | 1.670 | 1.682 | 1.712 | 1.701 | 1.724 | 1.1% |
| Total | 3.238 | 3.246 | 3.267 | 3.288 | 3.322 | 3.338 | 3.383 | 3.416 | 3.465 | 3.498 | 3.552 | 3.564 | 3.615 | 1.0% |
| Industrial 4/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.185 | 0.187 | 0.188 | 0.190 | 0.191 | 0.193 | 0.195 | 0.197 | 0.199 | 0.201 | 0.203 | 0.206 | 0.208 | 0.9% |
| Liquefied Petroleum Gas | 0.102 | 0.103 | 0.105 | 0.106 | 0.107 | 0.109 | 0.111 | 0.112 | 0.114 | 0.116 | 0.117 | 0.119 | 0.121 | 1.6% |
| Petrochemical Feedstocks | 0.236 | 0.240 | 0.243 | 0.245 | 0.249 | 0.253 | 0.258 | 0.261 | 0.265 | 0.269 | 0.272 | 0.276 | 0.280 | 2.0% |
| Residual Fuel | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | -2.2% |
| Motor Gasoline 2/ | 0.027 | 0.027 | 0.027 | 0.028 | 0.028 | 0.028 | 0.028 | 0.029 | 0.029 | 0.029 | 0.030 | 0.030 | 0.030 | 0.9% |
| Other Petroleum 5/ | 0.745 | 0.751 | 0.750 | 0.753 | 0.756 | 0.756 | 0.761 | 0.764 | 0.765 | 0.767 | 0.768 | 0.771 | 0.774 | 0.5% |
| Petroleum Subtotal | 1.306 | 1.319 | 1.324 | 1.332 | 1.343 | 1.351 | 1.364 | 1.375 | 1.383 | 1.393 | 1.402 | 1.413 | 1.425 | 0.9% |
| Natural Gas | 1.538 | 1.552 | 1.567 | 1.576 | 1.590 | 1.610 | 1.635 | 1.651 | 1.675 | 1.702 | 1.724 | 1.751 | 1.772 | 1.7% |
| Lease and Plant Fuel 6/ | 0.010 | 0.010 | 0.010 | 0.010 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | -1.3% |
| Natural Gas Subtotal | 1.547 | 1.562 | 1.577 | 1.586 | 1.600 | 1.619 | 1.644 | 1.661 | 1.684 | 1.711 | 1.733 | 1.760 | 1.781 | 1.7% |
| Metallurgical Coal | 0.298 | 0.292 | 0.287 | 0.282 | 0.276 | 0.271 | 0.266 | 0.262 | 0.257 | 0.252 | 0.248 | 0.243 | 0.239 | -1.5% |
| Steam Coal | 0.355 | 0.356 | 0.357 | 0.357 | 0.357 | 0.357 | 0.358 | 0.359 | 0.359 | 0.360 | 0.361 | 0.363 | 0.364 | 0.2% |
| Net Coal Coke Imports | 0.078 | 0.081 | 0.080 | 0.079 | 0.080 | 0.082 | 0.084 | 0.083 | 0.083 | 0.085 | 0.087 | 0.089 | 0.091 | 7.1% |
| Coal Subtotal | 0.730 | 0.729 | 0.724 | 0.718 | 0.714 | 0.710 | 0.708 | 0.703 | 0.699 | 0.697 | 0.695 | 0.695 | 0.693 | -0.1% |
| Renewable Energy 7/ | 0.466 | 0.479 | 0.490 | 0.500 | 0.512 | 0.525 | 0.538 | 0.549 | 0.559 | 0.571 | 0.583 | 0.596 | 0.607 | 2.5% |
| Electricity | 0.891 | 0.905 | 0.915 | 0.923 | 0.935 | 0.946 | 0.960 | 0.971 | 0.982 | 0.996 | 1.011 | 1.027 | 1.042 | 1.5% |

**Table 3. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East North Central)**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Delivered Energy | 4.941 | 4.993 | 5.029 | 5.060 | 5.104 | 5.152 | 5.215 | 5.258 | 5.307 | 5.369 | 5.424 | 5.491 | 5.547 | 1.3% |
| Electricity Related Losses | 2.090 | 2.097 | 2.107 | 2.113 | 2.133 | 2.129 | 2.161 | 2.172 | 2.195 | 2.207 | 2.236 | 2.219 | 2.234 | 1.2% |
| Total | 7.031 | 7.090 | 7.137 | 7.173 | 7.237 | 7.281 | 7.376 | 7.431 | 7.502 | 7.575 | 7.659 | 7.710 | 7.781 | 1.3% |
| | | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 1.183 | 1.202 | 1.217 | 1.230 | 1.245 | 1.261 | 1.278 | 1.293 | 1.308 | 1.327 | 1.347 | 1.370 | 1.389 | 1.9% |
| Jet Fuel 9/ | 0.384 | 0.393 | 0.402 | 0.411 | 0.419 | 0.428 | 0.436 | 0.444 | 0.452 | 0.460 | 0.468 | 0.476 | 0.484 | 1.6% |
| Motor Gasoline 2/ | 3.232 | 3.275 | 3.314 | 3.350 | 3.383 | 3.419 | 3.458 | 3.487 | 3.515 | 3.546 | 3.583 | 3.625 | 3.661 | 1.4% |
| Residual Fuel | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | -0.5% |
| Liquefied Petroleum Gas | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 6.0% |
| Other Petroleum 10/ | 0.035 | 0.036 | 0.036 | 0.037 | 0.037 | 0.038 | 0.038 | 0.038 | 0.038 | 0.039 | 0.039 | 0.039 | 0.039 | 0.7% |
| Petroleum Subtotal | 4.847 | 4.919 | 4.982 | 5.040 | 5.099 | 5.159 | 5.224 | 5.277 | 5.328 | 5.387 | 5.452 | 5.525 | 5.589 | 1.6% |
| Pipeline Fuel Natural Gas | 0.077 | 0.078 | 0.079 | 0.079 | 0.081 | 0.082 | 0.084 | 0.085 | 0.087 | 0.089 | 0.091 | 0.091 | 0.092 | 1.4% |
| Compressed Natural Gas | 0.010 | 0.010 | 0.011 | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 9.2% |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 8.4% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 0.015 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.018 | 0.018 | 0.019 | 0.019 | 0.020 | 0.020 | 0.020 | 2.3% |
| Delivered Energy | 4.950 | 5.023 | 5.089 | 5.148 | 5.208 | 5.270 | 5.338 | 5.393 | 5.447 | 5.509 | 5.576 | 5.651 | 5.717 | 1.6% |
| Electricity Related Losses | 0.036 | 0.037 | 0.037 | 0.038 | 0.038 | 0.039 | 0.040 | 0.041 | 0.042 | 0.042 | 0.043 | 0.043 | 0.044 | 1.9% |
| Total | 4.986 | 5.060 | 5.126 | 5.186 | 5.247 | 5.309 | 5.378 | 5.433 | 5.489 | 5.551 | 5.619 | 5.694 | 5.761 | 1.6% |
| | | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | | |
| Distillate Fuel | 1.479 | 1.499 | 1.514 | 1.528 | 1.544 | 1.560 | 1.579 | 1.595 | 1.611 | 1.631 | 1.652 | 1.677 | 1.698 | 1.6% |
| Kerosene | 0.012 | 0.012 | 0.012 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | -1.7% |
| Jet Fuel 9/ | 0.384 | 0.393 | 0.402 | 0.411 | 0.419 | 0.428 | 0.436 | 0.444 | 0.452 | 0.460 | 0.468 | 0.476 | 0.484 | 1.6% |
| Liquefied Petroleum Gas | 0.261 | 0.264 | 0.265 | 0.268 | 0.270 | 0.272 | 0.275 | 0.278 | 0.280 | 0.282 | 0.284 | 0.288 | 0.290 | 0.9% |
| Motor Gasoline 2/ | 3.266 | 3.309 | 3.348 | 3.385 | 3.418 | 3.454 | 3.493 | 3.523 | 3.551 | 3.583 | 3.620 | 3.662 | 3.698 | 1.4% |
| Petrochemical Feedstocks | 0.236 | 0.240 | 0.243 | 0.245 | 0.249 | 0.253 | 0.258 | 0.261 | 0.265 | 0.269 | 0.272 | 0.276 | 0.280 | 2.0% |
| Residual Fuel | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | -1.9% |
| Other Petroleum 12/ | 0.777 | 0.783 | 0.783 | 0.786 | 0.790 | 0.790 | 0.796 | 0.798 | 0.799 | 0.802 | 0.803 | 0.806 | 0.810 | 0.6% |
| Petroleum Subtotal | 6.431 | 6.515 | 6.582 | 6.649 | 6.717 | 6.784 | 6.862 | 6.924 | 6.983 | 7.052 | 7.125 | 7.210 | 7.285 | 1.3% |
| Natural Gas | 4.049 | 4.072 | 4.099 | 4.125 | 4.150 | 4.189 | 4.235 | 4.273 | 4.312 | 4.362 | 4.405 | 4.456 | 4.492 | 1.2% |
| Lease and Plant Fuel 6/ | 0.010 | 0.010 | 0.010 | 0.010 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | -1.3% |
| Pipeline Natural Gas | 0.077 | 0.078 | 0.079 | 0.079 | 0.081 | 0.082 | 0.084 | 0.085 | 0.087 | 0.089 | 0.091 | 0.091 | 0.092 | 1.4% |
| Natural Gas Subtotal | 4.136 | 4.160 | 4.187 | 4.214 | 4.240 | 4.280 | 4.327 | 4.367 | 4.408 | 4.459 | 4.504 | 4.556 | 4.593 | 1.2% |
| Metallurgical Coal | 0.298 | 0.292 | 0.287 | 0.282 | 0.276 | 0.271 | 0.266 | 0.262 | 0.257 | 0.252 | 0.248 | 0.243 | 0.239 | -1.5% |
| Steam Coal | 0.381 | 0.382 | 0.383 | 0.383 | 0.384 | 0.384 | 0.385 | 0.386 | 0.387 | 0.387 | 0.389 | 0.390 | 0.392 | 0.2% |
| Net Coal Coke Imports | 0.078 | 0.081 | 0.080 | 0.079 | 0.080 | 0.082 | 0.084 | 0.083 | 0.083 | 0.085 | 0.087 | 0.089 | 0.091 | 7.1% |
| Coal Subtotal | 0.757 | 0.755 | 0.750 | 0.744 | 0.741 | 0.737 | 0.735 | 0.731 | 0.727 | 0.724 | 0.723 | 0.723 | 0.721 | -0.1% |
| Renewable Energy 13/ | 0.524 | 0.537 | 0.548 | 0.559 | 0.570 | 0.583 | 0.596 | 0.607 | 0.617 | 0.629 | 0.641 | 0.654 | 0.665 | 2.3% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 2.339 | 2.368 | 2.398 | 2.425 | 2.454 | 2.485 | 2.521 | 2.554 | 2.585 | 2.622 | 2.663 | 2.705 | 2.747 | 1.5% |
| Delivered Energy | 14.186 | 14.335 | 14.465 | 14.590 | 14.722 | 14.869 | 15.042 | 15.183 | 15.320 | 15.487 | 15.656 | 15.848 | 16.012 | 1.3% |
| Electricity Related Losses | 5.486 | 5.490 | 5.522 | 5.549 | 5.600 | 5.591 | 5.674 | 5.714 | 5.781 | 5.807 | 5.890 | 5.842 | 5.890 | 1.2% |
| Total | 19.672 | 19.825 | 19.987 | 20.139 | 20.322 | 20.460 | 20.716 | 20.897 | 21.102 | 21.294 | 21.546 | 21.690 | 21.901 | 1.3% |
| | | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.6% |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -17.0% |
| Petroleum Subtotal | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | -5.9% |
| Natural Gas | 0.859 | 0.871 | 0.925 | 0.963 | 1.037 | 1.092 | 1.186 | 1.236 | 1.360 | 1.416 | 1.511 | 1.496 | 1.556 | 8.4% |
| Steam Coal | 5.368 | 5.387 | 5.394 | 5.407 | 5.411 | 5.374 | 5.394 | 5.418 | 5.390 | 5.394 | 5.419 | 5.428 | 5.456 | 0.8% |
| Nuclear Power | 1.478 | 1.479 | 1.479 | 1.480 | 1.481 | 1.481 | 1.482 | 1.483 | 1.483 | 1.483 | 1.483 | 1.483 | 1.483 | -0.1% |
| Renewable Energy/Other 15/ | 0.134 | 0.134 | 0.135 | 0.135 | 0.135 | 0.135 | 0.137 | 0.135 | 0.136 | 0.136 | 0.138 | 0.138 | 0.138 | 2.0% |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |

**Table 3. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East North Central)**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 7.825 | 7.858 | 7.920 | 7.974 | 8.054 | 8.076 | 8.195 | 8.268 | 8.367 | 8.429 | 8.553 | 8.547 | 8.636 | 1.3% |
| Total Energy Consumption | | | | | | | | | | | | | | |
| Distillate Fuel | 1.486 | 1.506 | 1.521 | 1.535 | 1.551 | 1.567 | 1.585 | 1.603 | 1.619 | 1.639 | 1.660 | 1.685 | 1.706 | 1.6% |
| Kerosene | 0.012 | 0.012 | 0.012 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | -1.7% |
| Jet Fuel 9/ | 0.384 | 0.393 | 0.402 | 0.411 | 0.419 | 0.428 | 0.436 | 0.444 | 0.452 | 0.460 | 0.468 | 0.476 | 0.484 | 1.6% |
| Liquefied Petroleum Gas | 0.261 | 0.264 | 0.265 | 0.268 | 0.270 | 0.272 | 0.275 | 0.278 | 0.280 | 0.282 | 0.284 | 0.288 | 0.290 | 0.9% |
| Motor Gasoline 2/ | 3.266 | 3.309 | 3.348 | 3.385 | 3.418 | 3.454 | 3.493 | 3.523 | 3.551 | 3.583 | 3.620 | 3.662 | 3.698 | 1.4% |
| Petrochemical Feedstocks | 0.236 | 0.240 | 0.243 | 0.245 | 0.249 | 0.253 | 0.258 | 0.261 | 0.265 | 0.269 | 0.272 | 0.276 | 0.280 | 2.0% |
| Residual Fuel | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | -5.1% |
| Other Petroleum 12/ | 0.777 | 0.783 | 0.783 | 0.786 | 0.790 | 0.790 | 0.796 | 0.798 | 0.799 | 0.802 | 0.803 | 0.806 | 0.810 | 0.6% |
| Petroleum Subtotal | 6.437 | 6.521 | 6.588 | 6.655 | 6.723 | 6.790 | 6.869 | 6.932 | 6.991 | 7.060 | 7.133 | 7.219 | 7.294 | 1.3% |
| Natural Gas | 4.908 | 4.943 | 5.024 | 5.088 | 5.187 | 5.281 | 5.421 | 5.510 | 5.672 | 5.778 | 5.916 | 5.952 | 6.048 | 2.1% |
| Lease and Plant Fuel 6/ | 0.010 | 0.010 | 0.010 | 0.010 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | -1.3% |
| Pipeline Natural Gas | 0.077 | 0.078 | 0.079 | 0.079 | 0.081 | 0.082 | 0.084 | 0.085 | 0.087 | 0.089 | 0.091 | 0.091 | 0.092 | 1.4% |
| Natural Gas Subtotal | 4.995 | 5.031 | 5.112 | 5.177 | 5.277 | 5.372 | 5.514 | 5.604 | 5.768 | 5.875 | 6.015 | 6.053 | 6.149 | 2.1% |
| Metallurgical Coal | 0.298 | 0.292 | 0.287 | 0.282 | 0.276 | 0.271 | 0.266 | 0.262 | 0.257 | 0.252 | 0.248 | 0.243 | 0.239 | -1.5% |
| Steam Coal | 5.749 | 5.770 | 5.777 | 5.791 | 5.795 | 5.758 | 5.779 | 5.805 | 5.776 | 5.781 | 5.808 | 5.818 | 5.848 | 0.8% |
| Net Coal Coke Imports | 0.078 | 0.081 | 0.080 | 0.079 | 0.080 | 0.082 | 0.084 | 0.083 | 0.083 | 0.085 | 0.087 | 0.089 | 0.091 | 7.1% |
| Coal Subtotal | 6.125 | 6.142 | 6.144 | 6.151 | 6.152 | 6.111 | 6.129 | 6.149 | 6.116 | 6.118 | 6.142 | 6.150 | 6.177 | 0.7% |
| Nuclear Power | 1.478 | 1.479 | 1.479 | 1.480 | 1.481 | 1.481 | 1.482 | 1.483 | 1.483 | 1.483 | 1.483 | 1.483 | 1.483 | -0.1% |
| Renewable Energy 16/ | 0.658 | 0.671 | 0.682 | 0.693 | 0.705 | 0.718 | 0.733 | 0.742 | 0.753 | 0.765 | 0.779 | 0.792 | 0.803 | 2.2% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Total | 19.692 | 19.844 | 20.006 | 20.157 | 20.338 | 20.473 | 20.727 | 20.910 | 21.112 | 21.301 | 21.552 | 21.696 | 21.906 | 1.3% |
| Energy Use & Related Statistics | | | | | | | | | | | | | | |
| Delivered Energy Use | 14.186 | 14.335 | 14.465 | 14.590 | 14.722 | 14.869 | 15.042 | 15.183 | 15.320 | 15.487 | 15.656 | 15.848 | 16.012 | 1.3% |
| Total Energy Use | 19.672 | 19.825 | 19.987 | 20.139 | 20.322 | 20.460 | 20.716 | 20.897 | 21.102 | 21.294 | 21.546 | 21.690 | 21.901 | 1.3% |
| Population (millions) | 46.848 | 46.977 | 47.105 | 47.233 | 47.359 | 47.485 | 47.610 | 47.733 | 47.858 | 47.984 | 48.111 | 48.241 | 48.370 | 0.3% |
| US GDP (billion 1996 dollars) | 13480 | 13893 | 14288 | 14681 | 15101 | 15540 | 16013 | 16450 | 16888 | 17363 | 17858 | 18389 | 18917 | 3.0% |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1889.2 | 1915.7 | 1944.2 | 1970.2 | 1996.8 | 2024.6 | 2055.5 | 2082.5 | 2108.3 | 2139.7 | 2170.8 | 2204.3 | 2236.9 | 1.5% |

**Table 3. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East North Central)**

1/ Includes wood used for residential heating. See Table A18 estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.
2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.
3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.
4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.
5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.
6/ Represents natural gas used in the field gathering and processing plant machinery.
7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.
8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.
9/ Includes only kerosene type.
10/ Includes aviation gasoline and lubricants.
11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.
13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.
16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.
Sources: 2000 and 2001 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). 2000 and 2001 population and gross domestic product: Global Insight macroeconomic model CTL0802. 2000 and 2001 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2001, DOE/EIA-0573(2001) (Washington, DC, December 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 4. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West North Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | |
| Distillate Fuel | 0.024 | 0.026 | 0.026 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.027 | 0.026 | 0.026 | 0.026 | 0.026 |
| Kerosene | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Liquefied Petroleum Gas | 0.111 | 0.100 | 0.106 | 0.098 | 0.097 | 0.096 | 0.095 | 0.094 | 0.093 | 0.092 | 0.091 | 0.090 | 0.090 |
| Petroleum Subtotal | 0.136 | 0.128 | 0.133 | 0.126 | 0.125 | 0.124 | 0.123 | 0.122 | 0.121 | 0.120 | 0.118 | 0.117 | 0.117 |
| Natural Gas | 0.462 | 0.444 | 0.457 | 0.479 | 0.486 | 0.488 | 0.492 | 0.494 | 0.497 | 0.498 | 0.499 | 0.501 | 0.504 |
| Coal | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Renewable Energy 1/ | 0.030 | 0.029 | 0.030 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.032 |
| Electricity | 0.301 | 0.308 | 0.317 | 0.328 | 0.334 | 0.338 | 0.343 | 0.350 | 0.357 | 0.362 | 0.367 | 0.372 | 0.379 |
| Delivered Energy | 0.931 | 0.911 | 0.938 | 0.966 | 0.978 | 0.982 | 0.992 | 1.000 | 1.009 | 1.013 | 1.019 | 1.024 | 1.033 |
| Electricity Related Losses | 0.746 | 0.763 | 0.790 | 0.829 | 0.841 | 0.864 | 0.872 | 0.897 | 0.913 | 0.915 | 0.942 | 0.949 | 0.952 |
| Total | 1.676 | 1.674 | 1.727 | 1.794 | 1.820 | 1.847 | 1.863 | 1.897 | 1.922 | 1.928 | 1.961 | 1.972 | 1.985 |
| Commercial | | | | | | | | | | | | | |
| Distillate Fuel | 0.020 | 0.021 | 0.022 | 0.022 | 0.022 | 0.022 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 |
| Residual Fuel | 0.001 | 0.001 | 0.000 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Kerosene | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquefied Petroleum Gas | 0.016 | 0.015 | 0.017 | 0.015 | 0.015 | 0.016 | 0.015 | 0.015 | 0.016 | 0.016 | 0.015 | 0.016 | 0.016 |
| Motor Gasoline 2/ | 0.007 | 0.008 | 0.008 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 |
| Petroleum Subtotal | 0.045 | 0.046 | 0.048 | 0.044 | 0.045 | 0.045 | 0.045 | 0.045 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 |
| Natural Gas | 0.341 | 0.343 | 0.344 | 0.358 | 0.367 | 0.371 | 0.375 | 0.377 | 0.378 | 0.378 | 0.379 | 0.380 | 0.382 |
| Coal | 0.013 | 0.013 | 0.013 | 0.013 | 0.012 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.014 |
| Renewable Energy 3/ | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Electricity | 0.305 | 0.318 | 0.327 | 0.330 | 0.338 | 0.345 | 0.351 | 0.358 | 0.364 | 0.370 | 0.375 | 0.381 | 0.388 |
| Delivered Energy | 0.708 | 0.726 | 0.737 | 0.751 | 0.767 | 0.779 | 0.789 | 0.798 | 0.806 | 0.812 | 0.818 | 0.825 | 0.835 |
| Electricity Related Losses | 0.755 | 0.788 | 0.815 | 0.834 | 0.852 | 0.882 | 0.892 | 0.918 | 0.930 | 0.935 | 0.962 | 0.971 | 0.977 |
| Total | 1.463 | 1.514 | 1.552 | 1.585 | 1.619 | 1.660 | 1.681 | 1.717 | 1.737 | 1.747 | 1.780 | 1.796 | 1.811 |
| Industrial 4/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.163 | 0.163 | 0.157 | 0.159 | 0.160 | 0.161 | 0.162 | 0.166 | 0.169 | 0.172 | 0.175 | 0.177 | 0.180 |
| Liquefied Petroleum Gas | 0.149 | 0.137 | 0.145 | 0.147 | 0.147 | 0.147 | 0.149 | 0.151 | 0.154 | 0.158 | 0.162 | 0.166 | 0.170 |
| Petrochemical Feedstocks | 0.025 | 0.022 | 0.023 | 0.024 | 0.024 | 0.024 | 0.025 | 0.025 | 0.026 | 0.027 | 0.028 | 0.028 | 0.029 |
| Residual Fuel | 0.007 | 0.007 | 0.006 | 0.006 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Motor Gasoline 2/ | 0.027 | 0.027 | 0.028 | 0.027 | 0.027 | 0.027 | 0.027 | 0.028 | 0.028 | 0.028 | 0.029 | 0.029 | 0.030 |
| Other Petroleum 5/ | 0.254 | 0.255 | 0.261 | 0.253 | 0.270 | 0.269 | 0.270 | 0.275 | 0.278 | 0.281 | 0.283 | 0.284 | 0.285 |
| Petroleum Subtotal | 0.625 | 0.612 | 0.620 | 0.616 | 0.633 | 0.633 | 0.637 | 0.649 | 0.659 | 0.670 | 0.680 | 0.689 | 0.697 |
| Natural Gas | 0.400 | 0.359 | 0.378 | 0.384 | 0.408 | 0.411 | 0.420 | 0.426 | 0.430 | 0.437 | 0.449 | 0.460 | 0.468 |
| Lease and Plant Fuel 6/ | 0.042 | 0.043 | 0.046 | 0.050 | 0.052 | 0.053 | 0.055 | 0.057 | 0.061 | 0.064 | 0.066 | 0.068 | 0.070 |
| Natural Gas Subtotal | 0.442 | 0.402 | 0.424 | 0.434 | 0.460 | 0.464 | 0.475 | 0.483 | 0.491 | 0.501 | 0.515 | 0.529 | 0.538 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 0.235 | 0.228 | 0.215 | 0.219 | 0.220 | 0.220 | 0.220 | 0.222 | 0.224 | 0.226 | 0.228 | 0.229 | 0.230 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 0.235 | 0.228 | 0.215 | 0.219 | 0.220 | 0.220 | 0.220 | 0.222 | 0.224 | 0.226 | 0.228 | 0.229 | 0.230 |
| Renewable Energy 7/ | 0.123 | 0.119 | 0.118 | 0.123 | 0.127 | 0.129 | 0.132 | 0.135 | 0.139 | 0.143 | 0.148 | 0.153 | 0.157 |
| Electricity | 0.283 | 0.263 | 0.244 | 0.258 | 0.265 | 0.269 | 0.275 | 0.284 | 0.292 | 0.298 | 0.306 | 0.314 | 0.320 |
| Delivered Energy | 1.706 | 1.623 | 1.621 | 1.650 | 1.705 | 1.715 | 1.739 | 1.773 | 1.805 | 1.839 | 1.878 | 1.913 | 1.941 |
| Electricity Related Losses | 0.700 | 0.650 | 0.609 | 0.651 | 0.668 | 0.688 | 0.699 | 0.727 | 0.745 | 0.754 | 0.785 | 0.799 | 0.804 |

**Table 4. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West North Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 2.407 | 2.273 | 2.230 | 2.300 | 2.373 | 2.404 | 2.438 | 2.500 | 2.550 | 2.593 | 2.664 | 2.712 | 2.746 |
| | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.543 | 0.553 | 0.550 | 0.568 | 0.586 | 0.599 | 0.616 | 0.634 | 0.652 | 0.671 | 0.691 | 0.711 | 0.726 |
| Jet Fuel 9/ | 0.190 | 0.182 | 0.179 | 0.177 | 0.176 | 0.179 | 0.184 | 0.188 | 0.192 | 0.197 | 0.201 | 0.206 | 0.211 |
| Motor Gasoline 2/ | 1.240 | 1.257 | 1.287 | 1.312 | 1.335 | 1.364 | 1.395 | 1.428 | 1.463 | 1.496 | 1.531 | 1.562 | 1.592 |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquefied Petroleum Gas | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 |
| Other Petroleum 10/ | 0.018 | 0.019 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.021 | 0.021 | 0.021 |
| Petroleum Subtotal | 1.993 | 2.013 | 2.038 | 2.079 | 2.119 | 2.164 | 2.217 | 2.273 | 2.330 | 2.388 | 2.448 | 2.504 | 2.554 |
| Pipeline Fuel Natural Gas | 0.098 | 0.093 | 0.079 | 0.088 | 0.091 | 0.093 | 0.095 | 0.097 | 0.100 | 0.104 | 0.107 | 0.110 | 0.112 |
| Compressed Natural Gas | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.004 | 0.004 | 0.005 | 0.005 | 0.006 |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 |
| Delivered Energy | 2.096 | 2.112 | 2.123 | 2.173 | 2.218 | 2.265 | 2.321 | 2.379 | 2.440 | 2.502 | 2.567 | 2.625 | 2.679 |
| Electricity Related Losses | 0.012 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.015 | 0.016 | 0.016 | 0.016 |
| Total | 2.108 | 2.124 | 2.136 | 2.187 | 2.232 | 2.279 | 2.335 | 2.394 | 2.455 | 2.518 | 2.583 | 2.642 | 2.695 |
| | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | |
| Distillate Fuel | 0.750 | 0.764 | 0.755 | 0.775 | 0.795 | 0.809 | 0.828 | 0.850 | 0.871 | 0.892 | 0.915 | 0.937 | 0.955 |
| Kerosene | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Jet Fuel 9/ | 0.190 | 0.182 | 0.179 | 0.177 | 0.176 | 0.179 | 0.184 | 0.188 | 0.192 | 0.197 | 0.201 | 0.206 | 0.211 |
| Liquefied Petroleum Gas | 0.278 | 0.254 | 0.269 | 0.262 | 0.262 | 0.261 | 0.262 | 0.264 | 0.266 | 0.269 | 0.272 | 0.276 | 0.279 |
| Motor Gasoline 2/ | 1.274 | 1.292 | 1.324 | 1.346 | 1.368 | 1.396 | 1.428 | 1.462 | 1.497 | 1.531 | 1.566 | 1.597 | 1.627 |
| Petrochemical Feedstocks | 0.025 | 0.022 | 0.023 | 0.024 | 0.024 | 0.024 | 0.025 | 0.025 | 0.026 | 0.027 | 0.028 | 0.028 | 0.029 |
| Residual Fuel | 0.008 | 0.008 | 0.007 | 0.007 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Other Petroleum 12/ | 0.270 | 0.273 | 0.279 | 0.272 | 0.289 | 0.288 | 0.289 | 0.293 | 0.297 | 0.300 | 0.302 | 0.303 | 0.304 |
| Petroleum Subtotal | 2.799 | 2.799 | 2.838 | 2.865 | 2.922 | 2.965 | 3.023 | 3.090 | 3.156 | 3.224 | 3.292 | 3.356 | 3.413 |
| Natural Gas | 1.203 | 1.147 | 1.179 | 1.222 | 1.263 | 1.273 | 1.289 | 1.300 | 1.308 | 1.317 | 1.332 | 1.347 | 1.360 |
| Lease and Plant Fuel 6/ | 0.042 | 0.043 | 0.046 | 0.050 | 0.052 | 0.053 | 0.055 | 0.057 | 0.061 | 0.064 | 0.066 | 0.068 | 0.070 |
| Pipeline Natural Gas | 0.098 | 0.093 | 0.079 | 0.088 | 0.091 | 0.093 | 0.095 | 0.097 | 0.100 | 0.104 | 0.107 | 0.110 | 0.112 |
| Natural Gas Subtotal | 1.343 | 1.283 | 1.305 | 1.359 | 1.406 | 1.418 | 1.439 | 1.454 | 1.470 | 1.485 | 1.506 | 1.525 | 1.542 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 0.248 | 0.242 | 0.229 | 0.234 | 0.235 | 0.235 | 0.235 | 0.237 | 0.239 | 0.241 | 0.243 | 0.244 | 0.246 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 0.248 | 0.242 | 0.229 | 0.234 | 0.235 | 0.235 | 0.235 | 0.237 | 0.239 | 0.241 | 0.243 | 0.244 | 0.246 |
| Renewable Energy 13/ | 0.158 | 0.154 | 0.153 | 0.159 | 0.163 | 0.165 | 0.168 | 0.172 | 0.176 | 0.180 | 0.185 | 0.190 | 0.195 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.893 | 0.894 | 0.893 | 0.921 | 0.942 | 0.957 | 0.976 | 0.997 | 1.020 | 1.037 | 1.055 | 1.073 | 1.093 |
| Delivered Energy | 5.442 | 5.371 | 5.418 | 5.539 | 5.668 | 5.741 | 5.841 | 5.950 | 6.061 | 6.167 | 6.281 | 6.388 | 6.488 |
| Electricity Related Losses | 2.213 | 2.214 | 2.227 | 2.327 | 2.376 | 2.449 | 2.477 | 2.558 | 2.604 | 2.619 | 2.706 | 2.735 | 2.750 |
| Total | 7.655 | 7.585 | 7.645 | 7.866 | 8.044 | 8.190 | 8.317 | 8.508 | 8.664 | 8.786 | 8.987 | 9.123 | 9.238 |
| | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.009 | 0.007 | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 |
| Residual Fuel | 0.004 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 | 0.001 | 0.001 |
| Petroleum Subtotal | 0.013 | 0.014 | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 | 0.005 | 0.006 | 0.006 | 0.005 | 0.006 |
| Natural Gas | 0.088 | 0.081 | 0.089 | 0.095 | 0.083 | 0.062 | 0.066 | 0.053 | 0.072 | 0.076 | 0.075 | 0.077 | 0.082 |
| Steam Coal | 2.286 | 2.314 | 2.259 | 2.324 | 2.409 | 2.507 | 2.594 | 2.699 | 2.735 | 2.774 | 2.863 | 2.911 | 2.936 |
| Nuclear Power | 0.456 | 0.463 | 0.468 | 0.468 | 0.472 | 0.472 | 0.472 | 0.472 | 0.472 | 0.472 | 0.472 | 0.472 | 0.472 |
| Renewable Energy/Other 15/ | 0.160 | 0.136 | 0.170 | 0.191 | 0.200 | 0.205 | 0.206 | 0.207 | 0.207 | 0.206 | 0.206 | 0.206 | 0.206 |
| Electricity Imports | 0.102 | 0.101 | 0.131 | 0.166 | 0.150 | 0.157 | 0.111 | 0.121 | 0.133 | 0.122 | 0.140 | 0.137 | 0.141 |
| Total | 3.106 | 3.108 | 3.120 | 3.248 | 3.318 | 3.406 | 3.452 | 3.555 | 3.623 | 3.656 | 3.761 | 3.808 | 3.842 |

**Table 4. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West North Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | |
| Distillate Fuel | 0.759 | 0.772 | 0.758 | 0.779 | 0.798 | 0.812 | 0.831 | 0.853 | 0.875 | 0.897 | 0.921 | 0.942 | 0.960 |
| Kerosene | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Jet Fuel 9/ | 0.190 | 0.182 | 0.179 | 0.177 | 0.176 | 0.179 | 0.184 | 0.188 | 0.192 | 0.197 | 0.201 | 0.206 | 0.211 |
| Liquefied Petroleum Gas | 0.278 | 0.254 | 0.269 | 0.262 | 0.262 | 0.261 | 0.262 | 0.264 | 0.266 | 0.269 | 0.272 | 0.276 | 0.279 |
| Motor Gasoline 2/ | 1.274 | 1.292 | 1.324 | 1.346 | 1.368 | 1.396 | 1.428 | 1.462 | 1.497 | 1.531 | 1.566 | 1.597 | 1.627 |
| Petrochemical Feedstocks | 0.025 | 0.022 | 0.023 | 0.024 | 0.024 | 0.024 | 0.025 | 0.025 | 0.026 | 0.027 | 0.028 | 0.028 | 0.029 |
| Residual Fuel | 0.013 | 0.015 | 0.007 | 0.007 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 |
| Other Petroleum 12/ | 0.270 | 0.273 | 0.279 | 0.272 | 0.289 | 0.288 | 0.289 | 0.293 | 0.297 | 0.300 | 0.302 | 0.303 | 0.304 |
| Petroleum Subtotal | 2.813 | 2.812 | 2.841 | 2.869 | 2.925 | 2.969 | 3.026 | 3.093 | 3.161 | 3.230 | 3.298 | 3.361 | 3.419 |
| Natural Gas | 1.292 | 1.228 | 1.268 | 1.317 | 1.347 | 1.335 | 1.355 | 1.354 | 1.380 | 1.393 | 1.407 | 1.424 | 1.442 |
| Lease and Plant Fuel 6/ | 0.042 | 0.043 | 0.046 | 0.050 | 0.052 | 0.053 | 0.055 | 0.057 | 0.061 | 0.064 | 0.066 | 0.068 | 0.070 |
| Pipeline Natural Gas | 0.098 | 0.093 | 0.079 | 0.088 | 0.091 | 0.093 | 0.095 | 0.097 | 0.100 | 0.104 | 0.107 | 0.110 | 0.112 |
| Natural Gas Subtotal | 1.431 | 1.364 | 1.394 | 1.454 | 1.489 | 1.481 | 1.505 | 1.507 | 1.541 | 1.561 | 1.581 | 1.602 | 1.624 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 2.535 | 2.556 | 2.489 | 2.558 | 2.643 | 2.742 | 2.829 | 2.936 | 2.975 | 3.015 | 3.105 | 3.155 | 3.182 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 2.535 | 2.556 | 2.489 | 2.558 | 2.643 | 2.742 | 2.829 | 2.936 | 2.975 | 3.015 | 3.105 | 3.155 | 3.182 |
| Nuclear Power | 0.456 | 0.463 | 0.468 | 0.468 | 0.472 | 0.472 | 0.472 | 0.472 | 0.472 | 0.472 | 0.472 | 0.472 | 0.472 |
| Renewable Energy 16/ | 0.318 | 0.290 | 0.324 | 0.351 | 0.364 | 0.371 | 0.374 | 0.378 | 0.382 | 0.387 | 0.392 | 0.397 | 0.401 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity Imports | 0.102 | 0.101 | 0.131 | 0.166 | 0.150 | 0.157 | 0.111 | 0.121 | 0.133 | 0.122 | 0.140 | 0.137 | 0.141 |
| Total | 7.655 | 7.585 | 7.645 | 7.866 | 8.044 | 8.190 | 8.317 | 8.508 | 8.664 | 8.786 | 8.987 | 9.123 | 9.238 |
| Energy Use & Related Statistics | | | | | | | | | | | | | |
| Delivered Energy Use | 5.442 | 5.371 | 5.418 | 5.539 | 5.668 | 5.741 | 5.841 | 5.950 | 6.061 | 6.167 | 6.281 | 6.388 | 6.488 |
| Total Energy Use | 7.655 | 7.585 | 7.645 | 7.866 | 8.044 | 8.190 | 8.317 | 8.508 | 8.664 | 8.786 | 8.987 | 9.123 | 9.238 |
| Population (millions) | 18.951 | 19.079 | 19.207 | 19.336 | 19.455 | 19.563 | 19.663 | 19.763 | 19.862 | 19.960 | 20.057 | 20.155 | 20.253 |
| US GDP (billion 1996 dollars) | 9191 | 9215 | 9440 | 9743 | 10074 | 10361 | 10667 | 11017 | 11408 | 11810 | 12258 | 12671 | 13082 |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1578.2 | 1558.6 | 1536.2 | 1567.9 | 1597.2 | 1623.7 | 1662.3 | 1699.7 | 1734.5 | 1765.8 | 1800.5 | 1832.6 | 1862.1 |

**Table 4. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West North Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | | |
| Distillate Fuel | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.026 | 0.0% |
| Kerosene | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | -1.6% |
| Liquefied Petroleum Gas | 0.089 | 0.088 | 0.088 | 0.087 | 0.087 | 0.086 | 0.086 | 0.086 | 0.085 | 0.085 | 0.085 | 0.085 | 0.084 | -0.7% |
| Petroleum Subtotal | 0.116 | 0.115 | 0.114 | 0.114 | 0.113 | 0.113 | 0.112 | 0.112 | 0.112 | 0.112 | 0.112 | 0.112 | 0.111 | -0.6% |
| Natural Gas | 0.505 | 0.508 | 0.510 | 0.514 | 0.516 | 0.520 | 0.525 | 0.530 | 0.534 | 0.539 | 0.544 | 0.549 | 0.550 | 0.9% |
| Coal | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.4% |
| Renewable Energy 1/ | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.4% |
| Electricity | 0.383 | 0.388 | 0.394 | 0.400 | 0.404 | 0.409 | 0.415 | 0.422 | 0.426 | 0.432 | 0.437 | 0.444 | 0.450 | 1.6% |
| Delivered Energy | 1.037 | 1.044 | 1.051 | 1.061 | 1.066 | 1.076 | 1.086 | 1.098 | 1.105 | 1.116 | 1.126 | 1.139 | 1.145 | 1.0% |
| Electricity Related Losses | 0.950 | 0.964 | 0.974 | 0.980 | 0.981 | 0.989 | 0.987 | 0.999 | 0.998 | 1.002 | 1.005 | 1.013 | 1.053 | 1.4% |
| Total | 1.987 | 2.008 | 2.025 | 2.042 | 2.047 | 2.065 | 2.073 | 2.097 | 2.103 | 2.118 | 2.131 | 2.152 | 2.198 | 1.1% |
| Commercial | | | | | | | | | | | | | | |
| Distillate Fuel | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.022 | 0.022 | 0.2% |
| Residual Fuel | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | -1.4% |
| Kerosene | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -1.4% |
| Liquefied Petroleum Gas | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.2% |
| Motor Gasoline 2/ | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | -1.1% |
| Petroleum Subtotal | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.046 | 0.0% |
| Natural Gas | 0.385 | 0.387 | 0.390 | 0.394 | 0.398 | 0.402 | 0.405 | 0.408 | 0.411 | 0.413 | 0.413 | 0.411 | 0.409 | 0.7% |
| Coal | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.015 | 0.015 | 0.6% |
| Renewable Energy 3/ | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.0% |
| Electricity | 0.396 | 0.403 | 0.411 | 0.419 | 0.426 | 0.434 | 0.441 | 0.449 | 0.455 | 0.461 | 0.467 | 0.471 | 0.475 | 1.7% |
| Delivered Energy | 0.845 | 0.856 | 0.867 | 0.878 | 0.889 | 0.901 | 0.913 | 0.923 | 0.932 | 0.940 | 0.945 | 0.948 | 0.950 | 1.1% |
| Electricity Related Losses | 0.982 | 1.002 | 1.017 | 1.027 | 1.035 | 1.049 | 1.050 | 1.063 | 1.067 | 1.071 | 1.073 | 1.074 | 1.113 | 1.4% |
| Total | 1.827 | 1.858 | 1.883 | 1.904 | 1.925 | 1.950 | 1.963 | 1.985 | 1.999 | 2.011 | 2.018 | 2.022 | 2.063 | 1.3% |
| Industrial 4/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.181 | 0.182 | 0.184 | 0.185 | 0.187 | 0.189 | 0.191 | 0.193 | 0.195 | 0.197 | 0.199 | 0.201 | 0.204 | 0.9% |
| Liquefied Petroleum Gas | 0.172 | 0.175 | 0.177 | 0.179 | 0.181 | 0.184 | 0.187 | 0.190 | 0.193 | 0.195 | 0.198 | 0.201 | 0.204 | 1.7% |
| Petrochemical Feedstocks | 0.029 | 0.030 | 0.030 | 0.031 | 0.031 | 0.032 | 0.032 | 0.033 | 0.033 | 0.033 | 0.034 | 0.034 | 0.035 | 2.0% |
| Residual Fuel | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | -1.9% |
| Motor Gasoline 2/ | 0.030 | 0.030 | 0.030 | 0.030 | 0.031 | 0.031 | 0.031 | 0.032 | 0.032 | 0.032 | 0.033 | 0.033 | 0.033 | 0.9% |
| Other Petroleum 5/ | 0.285 | 0.288 | 0.287 | 0.288 | 0.290 | 0.290 | 0.292 | 0.293 | 0.294 | 0.295 | 0.295 | 0.297 | 0.298 | 0.6% |
| Petroleum Subtotal | 0.702 | 0.709 | 0.713 | 0.718 | 0.724 | 0.730 | 0.738 | 0.745 | 0.751 | 0.757 | 0.763 | 0.771 | 0.778 | 1.0% |
| Natural Gas | 0.473 | 0.477 | 0.482 | 0.484 | 0.489 | 0.495 | 0.502 | 0.507 | 0.514 | 0.523 | 0.529 | 0.538 | 0.544 | 1.7% |
| Lease and Plant Fuel 6/ | 0.071 | 0.073 | 0.074 | 0.075 | 0.075 | 0.076 | 0.076 | 0.076 | 0.074 | 0.074 | 0.076 | 0.076 | 0.076 | 2.5% |
| Natural Gas Subtotal | 0.544 | 0.550 | 0.556 | 0.559 | 0.564 | 0.571 | 0.578 | 0.583 | 0.589 | 0.597 | 0.606 | 0.614 | 0.620 | 1.8% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 0.231 | 0.232 | 0.232 | 0.232 | 0.233 | 0.233 | 0.233 | 0.234 | 0.234 | 0.234 | 0.235 | 0.236 | 0.237 | 0.2% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 0.231 | 0.232 | 0.232 | 0.232 | 0.233 | 0.233 | 0.233 | 0.234 | 0.234 | 0.234 | 0.235 | 0.236 | 0.237 | 0.2% |
| Renewable Energy 7/ | 0.161 | 0.165 | 0.168 | 0.171 | 0.175 | 0.178 | 0.182 | 0.185 | 0.189 | 0.193 | 0.196 | 0.201 | 0.204 | 2.3% |
| Electricity | 0.324 | 0.329 | 0.333 | 0.336 | 0.340 | 0.344 | 0.350 | 0.354 | 0.358 | 0.363 | 0.368 | 0.374 | 0.379 | 1.5% |
| Delivered Energy | 1.962 | 1.985 | 2.002 | 2.017 | 2.036 | 2.056 | 2.081 | 2.101 | 2.120 | 2.144 | 2.169 | 2.196 | 2.219 | 1.3% |
| Electricity Related Losses | 0.805 | 0.819 | 0.824 | 0.825 | 0.827 | 0.833 | 0.832 | 0.838 | 0.838 | 0.842 | 0.846 | 0.853 | 0.889 | 1.3% |

**Table 4. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West North Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 2.768 | 2.804 | 2.827 | 2.842 | 2.862 | 2.888 | 2.913 | 2.938 | 2.957 | 2.986 | 3.015 | 3.049 | 3.108 | 1.3% |
| Transportation | | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.739 | 0.752 | 0.762 | 0.771 | 0.781 | 0.792 | 0.804 | 0.814 | 0.824 | 0.838 | 0.851 | 0.867 | 0.881 | 2.0% |
| Jet Fuel 9/ | 0.216 | 0.221 | 0.226 | 0.231 | 0.236 | 0.241 | 0.246 | 0.251 | 0.256 | 0.260 | 0.265 | 0.270 | 0.275 | 1.7% |
| Motor Gasoline 2/ | 1.620 | 1.645 | 1.668 | 1.690 | 1.710 | 1.731 | 1.754 | 1.772 | 1.790 | 1.809 | 1.831 | 1.855 | 1.876 | 1.7% |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -0.2% |
| Liquefied Petroleum Gas | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 6.3% |
| Other Petroleum 10/ | 0.022 | 0.022 | 0.022 | 0.022 | 0.023 | 0.023 | 0.023 | 0.024 | 0.024 | 0.024 | 0.024 | 0.025 | 0.025 | 1.1% |
| Petroleum Subtotal | 2.601 | 2.644 | 2.683 | 2.719 | 2.755 | 2.792 | 2.833 | 2.866 | 2.899 | 2.936 | 2.977 | 3.023 | 3.063 | 1.8% |
| Pipeline Fuel Natural Gas | 0.115 | 0.116 | 0.117 | 0.119 | 0.121 | 0.123 | 0.125 | 0.128 | 0.133 | 0.137 | 0.141 | 0.142 | 0.142 | 1.8% |
| Compressed Natural Gas | 0.006 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 10.9% |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 8.7% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 2.4% |
| Delivered Energy | 2.729 | 2.774 | 2.815 | 2.852 | 2.891 | 2.931 | 2.974 | 3.011 | 3.049 | 3.091 | 3.136 | 3.183 | 3.224 | 1.8% |
| Electricity Related Losses | 0.017 | 0.017 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.019 | 0.019 | 0.020 | 0.020 | 0.020 | 0.021 | 2.2% |
| Total | 2.745 | 2.791 | 2.832 | 2.870 | 2.909 | 2.949 | 2.993 | 3.029 | 3.068 | 3.110 | 3.156 | 3.203 | 3.245 | 1.8% |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | | |
| Distillate Fuel | 0.969 | 0.983 | 0.994 | 1.005 | 1.017 | 1.029 | 1.043 | 1.055 | 1.068 | 1.083 | 1.099 | 1.117 | 1.133 | 1.7% |
| Kerosene | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | -0.9% |
| Jet Fuel 9/ | 0.216 | 0.221 | 0.226 | 0.231 | 0.236 | 0.241 | 0.246 | 0.251 | 0.256 | 0.260 | 0.265 | 0.270 | 0.275 | 1.7% |
| Liquefied Petroleum Gas | 0.281 | 0.283 | 0.285 | 0.287 | 0.289 | 0.291 | 0.294 | 0.297 | 0.299 | 0.302 | 0.304 | 0.307 | 0.310 | 0.8% |
| Motor Gasoline 2/ | 1.656 | 1.681 | 1.705 | 1.727 | 1.747 | 1.768 | 1.792 | 1.810 | 1.828 | 1.847 | 1.869 | 1.894 | 1.916 | 1.7% |
| Petrochemical Feedstocks | 0.029 | 0.030 | 0.030 | 0.031 | 0.031 | 0.032 | 0.032 | 0.033 | 0.033 | 0.033 | 0.034 | 0.034 | 0.035 | 2.0% |
| Residual Fuel | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | -1.8% |
| Other Petroleum 12/ | 0.305 | 0.308 | 0.308 | 0.309 | 0.311 | 0.311 | 0.314 | 0.315 | 0.316 | 0.317 | 0.318 | 0.320 | 0.322 | 0.7% |
| Petroleum Subtotal | 3.464 | 3.514 | 3.556 | 3.597 | 3.639 | 3.681 | 3.729 | 3.769 | 3.807 | 3.851 | 3.898 | 3.951 | 3.999 | 1.5% |
| Natural Gas | 1.369 | 1.379 | 1.389 | 1.400 | 1.410 | 1.424 | 1.440 | 1.454 | 1.468 | 1.483 | 1.495 | 1.507 | 1.512 | 1.2% |
| Lease and Plant Fuel 6/ | 0.071 | 0.073 | 0.074 | 0.075 | 0.075 | 0.076 | 0.076 | 0.076 | 0.074 | 0.074 | 0.076 | 0.076 | 0.076 | 2.5% |
| Pipeline Natural Gas | 0.115 | 0.116 | 0.117 | 0.119 | 0.121 | 0.123 | 0.125 | 0.128 | 0.133 | 0.137 | 0.141 | 0.142 | 0.142 | 1.8% |
| Natural Gas Subtotal | 1.555 | 1.568 | 1.581 | 1.593 | 1.606 | 1.623 | 1.642 | 1.658 | 1.675 | 1.694 | 1.713 | 1.725 | 1.730 | 1.3% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 0.246 | 0.247 | 0.248 | 0.248 | 0.248 | 0.249 | 0.249 | 0.250 | 0.250 | 0.250 | 0.251 | 0.252 | 0.253 | 0.2% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 0.246 | 0.247 | 0.248 | 0.248 | 0.248 | 0.249 | 0.249 | 0.250 | 0.250 | 0.250 | 0.251 | 0.252 | 0.253 | 0.2% |
| Renewable Energy 13/ | 0.198 | 0.202 | 0.205 | 0.208 | 0.212 | 0.215 | 0.219 | 0.223 | 0.226 | 0.230 | 0.234 | 0.238 | 0.242 | 1.9% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 1.109 | 1.127 | 1.145 | 1.162 | 1.178 | 1.195 | 1.214 | 1.232 | 1.247 | 1.264 | 1.281 | 1.299 | 1.314 | 1.6% |
| Delivered Energy | 6.573 | 6.658 | 6.734 | 6.808 | 6.883 | 6.963 | 7.053 | 7.132 | 7.205 | 7.291 | 7.377 | 7.466 | 7.538 | 1.4% |
| Electricity Related Losses | 2.753 | 2.803 | 2.832 | 2.849 | 2.860 | 2.888 | 2.888 | 2.918 | 2.922 | 2.934 | 2.944 | 2.960 | 3.077 | 1.4% |
| Total | 9.326 | 9.461 | 9.566 | 9.657 | 9.743 | 9.851 | 9.941 | 10.051 | 10.127 | 10.225 | 10.321 | 10.426 | 10.614 | 1.4% |
| Electric Generators 14/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.005 | 0.006 | 0.005 | 0.005 | -1.3% |
| Residual Fuel | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -11.0% |
| Petroleum Subtotal | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | -3.6% |
| Natural Gas | 0.092 | 0.084 | 0.080 | 0.083 | 0.085 | 0.087 | 0.087 | 0.092 | 0.099 | 0.102 | 0.100 | 0.095 | 0.075 | -0.3% |
| Steam Coal | 2.943 | 3.020 | 3.063 | 3.104 | 3.142 | 3.202 | 3.239 | 3.267 | 3.295 | 3.337 | 3.374 | 3.416 | 3.573 | 1.8% |
| Nuclear Power | 0.484 | 0.493 | 0.494 | 0.494 | 0.495 | 0.496 | 0.496 | 0.497 | 0.497 | 0.497 | 0.497 | 0.497 | 0.497 | 0.3% |
| Renewable Energy/Other 15/ | 0.206 | 0.206 | 0.206 | 0.206 | 0.206 | 0.206 | 0.206 | 0.206 | 0.206 | 0.206 | 0.206 | 0.206 | 0.206 | 1.7% |
| Electricity Imports | 0.131 | 0.121 | 0.129 | 0.118 | 0.105 | 0.087 | 0.069 | 0.083 | 0.066 | 0.051 | 0.042 | 0.039 | 0.033 | -4.5% |
| Total | 3.863 | 3.930 | 3.976 | 4.011 | 4.038 | 4.083 | 4.102 | 4.150 | 4.169 | 4.198 | 4.225 | 4.258 | 4.390 | 1.4% |

**Table 4. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West North Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | | |
| Distillate Fuel | 0.974 | 0.987 | 0.999 | 1.009 | 1.021 | 1.034 | 1.048 | 1.061 | 1.073 | 1.089 | 1.105 | 1.123 | 1.138 | 1.6% |
| Kerosene | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | -0.9% |
| Jet Fuel 9/ | 0.216 | 0.221 | 0.226 | 0.231 | 0.236 | 0.241 | 0.246 | 0.251 | 0.256 | 0.260 | 0.265 | 0.270 | 0.275 | 1.7% |
| Liquefied Petroleum Gas | 0.281 | 0.283 | 0.285 | 0.287 | 0.289 | 0.291 | 0.294 | 0.297 | 0.299 | 0.302 | 0.304 | 0.307 | 0.310 | 0.8% |
| Motor Gasoline 2/ | 1.656 | 1.681 | 1.705 | 1.727 | 1.747 | 1.768 | 1.792 | 1.810 | 1.828 | 1.847 | 1.869 | 1.894 | 1.916 | 1.7% |
| Petrochemical Feedstocks | 0.029 | 0.030 | 0.030 | 0.031 | 0.031 | 0.032 | 0.032 | 0.033 | 0.033 | 0.033 | 0.034 | 0.034 | 0.035 | 2.0% |
| Residual Fuel | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | -3.8% |
| Other Petroleum 12/ | 0.305 | 0.308 | 0.308 | 0.309 | 0.311 | 0.311 | 0.314 | 0.315 | 0.316 | 0.317 | 0.318 | 0.320 | 0.322 | 0.7% |
| Petroleum Subtotal | 3.469 | 3.519 | 3.561 | 3.602 | 3.644 | 3.686 | 3.735 | 3.775 | 3.814 | 3.857 | 3.904 | 3.957 | 4.004 | 1.5% |
| Natural Gas | 1.461 | 1.463 | 1.469 | 1.482 | 1.495 | 1.511 | 1.527 | 1.546 | 1.567 | 1.585 | 1.596 | 1.602 | 1.588 | 1.1% |
| Lease and Plant Fuel 6/ | 0.071 | 0.073 | 0.074 | 0.075 | 0.075 | 0.076 | 0.076 | 0.076 | 0.074 | 0.074 | 0.076 | 0.076 | 0.076 | 2.5% |
| Pipeline Natural Gas | 0.115 | 0.116 | 0.117 | 0.119 | 0.121 | 0.123 | 0.125 | 0.128 | 0.133 | 0.137 | 0.141 | 0.142 | 0.142 | 1.8% |
| Natural Gas Subtotal | 1.647 | 1.652 | 1.660 | 1.676 | 1.691 | 1.710 | 1.729 | 1.750 | 1.774 | 1.796 | 1.813 | 1.820 | 1.806 | 1.2% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 3.190 | 3.267 | 3.311 | 3.353 | 3.391 | 3.451 | 3.488 | 3.517 | 3.545 | 3.588 | 3.625 | 3.668 | 3.826 | 1.7% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 3.190 | 3.267 | 3.311 | 3.353 | 3.391 | 3.451 | 3.488 | 3.517 | 3.545 | 3.588 | 3.625 | 3.668 | 3.826 | 1.7% |
| Nuclear Power | 0.484 | 0.493 | 0.494 | 0.494 | 0.495 | 0.496 | 0.496 | 0.497 | 0.497 | 0.497 | 0.497 | 0.497 | 0.497 | 0.3% |
| Renewable Energy 16/ | 0.404 | 0.408 | 0.412 | 0.415 | 0.418 | 0.421 | 0.425 | 0.429 | 0.432 | 0.436 | 0.440 | 0.444 | 0.447 | 1.8% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity Imports | 0.131 | 0.121 | 0.129 | 0.118 | 0.105 | 0.087 | 0.069 | 0.083 | 0.066 | 0.051 | 0.042 | 0.039 | 0.033 | -4.5% |
| Total | 9.326 | 9.461 | 9.566 | 9.657 | 9.743 | 9.851 | 9.941 | 10.051 | 10.127 | 10.225 | 10.321 | 10.426 | 10.614 | 1.4% |
| Energy Use & Related Statistics | | | | | | | | | | | | | | |
| Delivered Energy Use | 6.573 | 6.658 | 6.734 | 6.808 | 6.883 | 6.963 | 7.053 | 7.132 | 7.205 | 7.291 | 7.377 | 7.466 | 7.538 | 1.4% |
| Total Energy Use | 9.326 | 9.461 | 9.566 | 9.657 | 9.743 | 9.851 | 9.941 | 10.051 | 10.127 | 10.225 | 10.321 | 10.426 | 10.614 | 1.4% |
| Population (millions) | 20.351 | 20.449 | 20.546 | 20.643 | 20.738 | 20.833 | 20.925 | 21.017 | 21.109 | 21.200 | 21.292 | 21.383 | 21.476 | 0.5% |
| US GDP (billion 1996 dollars) | 13480 | 13893 | 14288 | 14681 | 15101 | 15540 | 16013 | 16450 | 16888 | 17363 | 17858 | 18389 | 18917 | 3.0% |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1889.2 | 1915.7 | 1944.2 | 1970.2 | 1996.8 | 2024.6 | 2055.5 | 2082.5 | 2108.3 | 2139.7 | 2170.8 | 2204.3 | 2236.9 | 1.5% |

**Table 4. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West North Central**

1/ Includes wood used for residential heating. See Table A18 estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.
2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.
3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.
4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.
5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.
6/ Represents natural gas used in the field gathering and processing plant machinery.
7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.
8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.
9/ Includes only kerosene type.
10/ Includes aviation gasoline and lubricants.
11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.
13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.
16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.
Sources: 2000 and 2001 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). 2000 and 2001 population and gross domestic product: Global Insight macroeconomic model CTL0802. 2000 and 2001 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2001, DOE/EIA-0573(2001) (Washington, DC, December 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 5. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**South Atlantic**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | | | |
| Distillate Fuel | 0.080 | 0.081 | 0.077 | 0.083 | 0.082 | 0.082 | 0.082 | 0.082 | 0.081 | 0.080 | 0.079 | 0.078 | 0.076 | 0.075 | 0.073 |
| Kerosene | 0.036 | 0.037 | 0.028 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.030 | 0.030 | 0.029 | 0.029 | 0.028 | 0.027 |
| Liquefied Petroleum Gas | 0.099 | 0.089 | 0.094 | 0.088 | 0.087 | 0.086 | 0.086 | 0.086 | 0.086 | 0.086 | 0.086 | 0.086 | 0.086 | 0.086 | 0.086 |
| Petroleum Subtotal | 0.214 | 0.207 | 0.199 | 0.202 | 0.200 | 0.199 | 0.199 | 0.198 | 0.198 | 0.196 | 0.194 | 0.193 | 0.191 | 0.189 | 0.186 |
| Natural Gas | 0.481 | 0.460 | 0.475 | 0.510 | 0.528 | 0.539 | 0.554 | 0.567 | 0.581 | 0.591 | 0.602 | 0.614 | 0.626 | 0.636 | 0.647 |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Renewable Energy 1/ | 0.072 | 0.064 | 0.064 | 0.069 | 0.069 | 0.069 | 0.069 | 0.069 | 0.070 | 0.070 | 0.070 | 0.070 | 0.070 | 0.070 | 0.070 |
| Electricity | 0.991 | 0.998 | 1.029 | 1.074 | 1.100 | 1.121 | 1.144 | 1.170 | 1.199 | 1.221 | 1.245 | 1.266 | 1.290 | 1.307 | 1.328 |
| Delivered Energy | 1.759 | 1.730 | 1.768 | 1.856 | 1.899 | 1.929 | 1.967 | 2.006 | 2.049 | 2.078 | 2.112 | 2.143 | 2.179 | 2.203 | 2.233 |
| Electricity Related Losses | 2.147 | 2.095 | 1.962 | 1.974 | 2.014 | 2.053 | 2.092 | 2.113 | 2.140 | 2.129 | 2.144 | 2.137 | 2.143 | 2.164 | 2.195 |
| Total | 3.906 | 3.825 | 3.730 | 3.829 | 3.913 | 3.982 | 4.059 | 4.119 | 4.189 | 4.207 | 4.257 | 4.280 | 4.322 | 4.367 | 4.428 |
| Commercial | | | | | | | | | | | | | | | |
| Distillate Fuel | 0.068 | 0.066 | 0.067 | 0.068 | 0.070 | 0.072 | 0.074 | 0.075 | 0.076 | 0.077 | 0.079 | 0.079 | 0.081 | 0.082 | 0.082 |
| Residual Fuel | 0.004 | 0.004 | 0.002 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Kerosene | 0.007 | 0.008 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 |
| Liquefied Petroleum Gas | 0.017 | 0.016 | 0.016 | 0.016 | 0.015 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 |
| Motor Gasoline 2/ | 0.007 | 0.008 | 0.008 | 0.006 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 |
| Petroleum Subtotal | 0.103 | 0.101 | 0.098 | 0.096 | 0.098 | 0.101 | 0.103 | 0.105 | 0.106 | 0.107 | 0.109 | 0.110 | 0.111 | 0.113 | 0.114 |
| Natural Gas | 0.408 | 0.406 | 0.406 | 0.429 | 0.445 | 0.456 | 0.468 | 0.478 | 0.488 | 0.498 | 0.507 | 0.518 | 0.529 | 0.540 | 0.553 |
| Coal | 0.014 | 0.015 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.015 | 0.015 | 0.016 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 |
| Renewable Energy 3/ | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 |
| Electricity | 0.777 | 0.805 | 0.835 | 0.853 | 0.879 | 0.904 | 0.930 | 0.957 | 0.986 | 1.015 | 1.045 | 1.077 | 1.110 | 1.143 | 1.177 |
| Delivered Energy | 1.323 | 1.347 | 1.374 | 1.413 | 1.458 | 1.497 | 1.536 | 1.576 | 1.616 | 1.657 | 1.698 | 1.741 | 1.787 | 1.833 | 1.882 |
| Electricity Related Losses | 1.682 | 1.689 | 1.593 | 1.568 | 1.609 | 1.655 | 1.700 | 1.729 | 1.760 | 1.770 | 1.801 | 1.818 | 1.843 | 1.893 | 1.947 |
| Total | 3.005 | 3.037 | 2.967 | 2.981 | 3.067 | 3.152 | 3.236 | 3.305 | 3.376 | 3.427 | 3.499 | 3.560 | 3.630 | 3.726 | 3.828 |
| Industrial 4/ | | | | | | | | | | | | | | | |
| Distillate Fuel | 0.175 | 0.178 | 0.168 | 0.170 | 0.172 | 0.174 | 0.177 | 0.181 | 0.185 | 0.188 | 0.192 | 0.195 | 0.198 | 0.200 | 0.201 |
| Liquefied Petroleum Gas | 0.041 | 0.037 | 0.039 | 0.040 | 0.040 | 0.040 | 0.040 | 0.041 | 0.041 | 0.043 | 0.044 | 0.045 | 0.047 | 0.047 | 0.048 |
| Petrochemical Feedstocks | 0.144 | 0.124 | 0.132 | 0.136 | 0.138 | 0.138 | 0.140 | 0.143 | 0.147 | 0.151 | 0.156 | 0.161 | 0.165 | 0.168 | 0.170 |
| Residual Fuel | 0.100 | 0.092 | 0.074 | 0.080 | 0.080 | 0.081 | 0.083 | 0.085 | 0.089 | 0.090 | 0.092 | 0.093 | 0.094 | 0.095 | 0.096 |
| Motor Gasoline 2/ | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.022 | 0.023 | 0.023 | 0.023 | 0.024 | 0.024 | 0.024 | 0.024 | 0.025 |
| Other Petroleum 5/ | 0.322 | 0.340 | 0.362 | 0.341 | 0.337 | 0.330 | 0.326 | 0.330 | 0.326 | 0.333 | 0.341 | 0.349 | 0.355 | 0.359 | 0.365 |
| Petroleum Subtotal | 0.803 | 0.793 | 0.797 | 0.790 | 0.789 | 0.785 | 0.788 | 0.802 | 0.811 | 0.828 | 0.848 | 0.866 | 0.883 | 0.893 | 0.905 |
| Natural Gas | 0.681 | 0.625 | 0.668 | 0.672 | 0.687 | 0.689 | 0.698 | 0.708 | 0.716 | 0.728 | 0.743 | 0.758 | 0.769 | 0.778 | 0.788 |
| Lease and Plant Fuel 6/ | 0.014 | 0.014 | 0.014 | 0.014 | 0.013 | 0.014 | 0.015 | 0.016 | 0.017 | 0.017 | 0.018 | 0.019 | 0.019 | 0.020 | 0.020 |
| Natural Gas Subtotal | 0.695 | 0.639 | 0.682 | 0.686 | 0.701 | 0.703 | 0.714 | 0.724 | 0.732 | 0.746 | 0.761 | 0.777 | 0.789 | 0.798 | 0.808 |
| Metallurgical Coal | 0.073 | 0.066 | 0.059 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.063 | 0.062 | 0.061 | 0.059 | 0.058 | 0.057 | 0.056 |
| Steam Coal | 0.287 | 0.280 | 0.268 | 0.272 | 0.274 | 0.275 | 0.275 | 0.277 | 0.281 | 0.282 | 0.284 | 0.286 | 0.288 | 0.289 | 0.291 |
| Net Coal Coke Imports | 0.006 | 0.002 | 0.002 | 0.005 | 0.006 | 0.007 | 0.008 | 0.010 | 0.011 | 0.013 | 0.015 | 0.017 | 0.018 | 0.019 | 0.020 |
| Coal Subtotal | 0.365 | 0.348 | 0.329 | 0.339 | 0.342 | 0.344 | 0.346 | 0.349 | 0.355 | 0.357 | 0.360 | 0.362 | 0.364 | 0.366 | 0.367 |
| Renewable Energy 7/ | 0.356 | 0.348 | 0.345 | 0.354 | 0.361 | 0.365 | 0.370 | 0.377 | 0.383 | 0.392 | 0.403 | 0.413 | 0.422 | 0.430 | 0.438 |
| Electricity | 0.567 | 0.528 | 0.491 | 0.516 | 0.528 | 0.534 | 0.544 | 0.558 | 0.575 | 0.588 | 0.605 | 0.621 | 0.635 | 0.646 | 0.658 |
| Delivered Energy | 2.787 | 2.656 | 2.644 | 2.685 | 2.720 | 2.731 | 2.761 | 2.811 | 2.856 | 2.910 | 2.977 | 3.039 | 3.093 | 3.133 | 3.176 |
| Electricity Related Losses | 1.229 | 1.109 | 0.937 | 0.949 | 0.966 | 0.977 | 0.995 | 1.009 | 1.026 | 1.025 | 1.043 | 1.048 | 1.055 | 1.070 | 1.088 |

**Table 5. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**South Atlantic**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 4.016 | 3.764 | 3.581 | 3.634 | 3.686 | 3.708 | 3.756 | 3.819 | 3.882 | 3.935 | 4.019 | 4.087 | 4.149 | 4.204 | 4.264 |
| | | | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.932 | 0.949 | 0.944 | 0.985 | 1.024 | 1.056 | 1.096 | 1.140 | 1.182 | 1.228 | 1.278 | 1.324 | 1.366 | 1.403 | 1.440 |
| Jet Fuel 9/ | 0.388 | 0.371 | 0.364 | 0.367 | 0.368 | 0.375 | 0.386 | 0.396 | 0.408 | 0.421 | 0.432 | 0.444 | 0.457 | 0.470 | 0.484 |
| Motor Gasoline 2/ | 3.180 | 3.223 | 3.301 | 3.358 | 3.420 | 3.504 | 3.599 | 3.703 | 3.812 | 3.922 | 4.037 | 4.146 | 4.252 | 4.357 | 4.454 |
| Residual Fuel | 0.107 | 0.101 | 0.095 | 0.099 | 0.100 | 0.100 | 0.101 | 0.101 | 0.102 | 0.103 | 0.103 | 0.104 | 0.105 | 0.105 | 0.106 |
| Liquefied Petroleum Gas | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.007 | 0.007 | 0.008 | 0.009 | 0.009 | 0.010 | 0.010 | 0.011 | 0.012 | 0.012 |
| Other Petroleum 10/ | 0.039 | 0.042 | 0.043 | 0.044 | 0.044 | 0.044 | 0.044 | 0.045 | 0.046 | 0.046 | 0.047 | 0.048 | 0.049 | 0.051 | 0.052 |
| Petroleum Subtotal | 4.648 | 4.689 | 4.752 | 4.857 | 4.962 | 5.086 | 5.234 | 5.393 | 5.559 | 5.730 | 5.908 | 6.077 | 6.239 | 6.398 | 6.548 |
| Pipeline Fuel Natural Gas | 0.069 | 0.066 | 0.053 | 0.056 | 0.056 | 0.056 | 0.057 | 0.057 | 0.059 | 0.059 | 0.061 | 0.061 | 0.063 | 0.063 | 0.064 |
| Compressed Natural Gas | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.006 | 0.007 | 0.008 | 0.009 | 0.010 | 0.011 | 0.012 | 0.012 | 0.013 |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 | 0.001 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.013 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.016 | 0.016 | 0.017 | 0.017 | 0.018 | 0.018 | 0.019 | 0.019 | 0.020 |
| Delivered Energy | 4.732 | 4.770 | 4.821 | 4.932 | 5.038 | 5.164 | 5.314 | 5.474 | 5.642 | 5.815 | 5.997 | 6.168 | 6.333 | 6.493 | 6.646 |
| Electricity Related Losses | 0.029 | 0.028 | 0.027 | 0.026 | 0.027 | 0.028 | 0.029 | 0.029 | 0.030 | 0.030 | 0.030 | 0.031 | 0.031 | 0.032 | 0.033 |
| Total | 4.760 | 4.799 | 4.848 | 4.958 | 5.065 | 5.192 | 5.342 | 5.503 | 5.672 | 5.845 | 6.027 | 6.199 | 6.364 | 6.525 | 6.679 |
| | | | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | | | |
| Distillate Fuel | 1.255 | 1.274 | 1.256 | 1.306 | 1.348 | 1.384 | 1.429 | 1.477 | 1.524 | 1.574 | 1.627 | 1.676 | 1.721 | 1.759 | 1.797 |
| Kerosene | 0.046 | 0.049 | 0.037 | 0.041 | 0.041 | 0.041 | 0.040 | 0.041 | 0.041 | 0.041 | 0.040 | 0.040 | 0.039 | 0.039 | 0.038 |
| Jet Fuel 9/ | 0.388 | 0.371 | 0.364 | 0.367 | 0.368 | 0.375 | 0.386 | 0.396 | 0.408 | 0.421 | 0.432 | 0.444 | 0.457 | 0.470 | 0.484 |
| Liquefied Petroleum Gas | 0.159 | 0.145 | 0.154 | 0.148 | 0.148 | 0.148 | 0.149 | 0.151 | 0.152 | 0.154 | 0.156 | 0.158 | 0.160 | 0.161 | 0.163 |
| Motor Gasoline 2/ | 3.209 | 3.252 | 3.331 | 3.385 | 3.448 | 3.531 | 3.627 | 3.731 | 3.840 | 3.951 | 4.066 | 4.175 | 4.282 | 4.387 | 4.484 |
| Petrochemical Feedstocks | 0.144 | 0.124 | 0.132 | 0.136 | 0.138 | 0.138 | 0.140 | 0.143 | 0.147 | 0.151 | 0.156 | 0.161 | 0.165 | 0.168 | 0.170 |
| Residual Fuel | 0.211 | 0.197 | 0.170 | 0.181 | 0.181 | 0.183 | 0.185 | 0.188 | 0.193 | 0.195 | 0.197 | 0.199 | 0.201 | 0.203 | 0.204 |
| Other Petroleum 12/ | 0.357 | 0.377 | 0.402 | 0.381 | 0.377 | 0.370 | 0.367 | 0.371 | 0.367 | 0.375 | 0.384 | 0.393 | 0.401 | 0.406 | 0.412 |
| Petroleum Subtotal | 5.768 | 5.790 | 5.846 | 5.945 | 6.049 | 6.171 | 6.324 | 6.498 | 6.673 | 6.860 | 7.058 | 7.246 | 7.425 | 7.593 | 7.753 |
| Natural Gas | 1.571 | 1.492 | 1.551 | 1.615 | 1.665 | 1.690 | 1.727 | 1.761 | 1.792 | 1.826 | 1.862 | 1.900 | 1.936 | 1.966 | 2.001 |
| Lease and Plant Fuel 6/ | 0.014 | 0.014 | 0.014 | 0.014 | 0.013 | 0.014 | 0.015 | 0.016 | 0.017 | 0.017 | 0.018 | 0.019 | 0.019 | 0.020 | 0.020 |
| Pipeline Natural Gas | 0.069 | 0.066 | 0.053 | 0.056 | 0.056 | 0.056 | 0.057 | 0.057 | 0.059 | 0.059 | 0.061 | 0.061 | 0.063 | 0.063 | 0.064 |
| Natural Gas Subtotal | 1.654 | 1.573 | 1.618 | 1.685 | 1.735 | 1.761 | 1.799 | 1.834 | 1.868 | 1.903 | 1.941 | 1.980 | 2.018 | 2.049 | 2.085 |
| Metallurgical Coal | 0.073 | 0.066 | 0.059 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.063 | 0.062 | 0.061 | 0.059 | 0.058 | 0.057 | 0.056 |
| Steam Coal | 0.302 | 0.295 | 0.282 | 0.287 | 0.290 | 0.291 | 0.291 | 0.294 | 0.297 | 0.299 | 0.302 | 0.303 | 0.306 | 0.307 | 0.309 |
| Net Coal Coke Imports | 0.006 | 0.002 | 0.002 | 0.005 | 0.006 | 0.007 | 0.008 | 0.010 | 0.011 | 0.013 | 0.015 | 0.017 | 0.018 | 0.019 | 0.020 |
| Coal Subtotal | 0.381 | 0.363 | 0.344 | 0.354 | 0.358 | 0.360 | 0.362 | 0.366 | 0.371 | 0.374 | 0.377 | 0.380 | 0.382 | 0.384 | 0.385 |
| Renewable Energy 13/ | 0.449 | 0.433 | 0.430 | 0.443 | 0.451 | 0.455 | 0.460 | 0.467 | 0.474 | 0.483 | 0.494 | 0.505 | 0.514 | 0.522 | 0.530 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 2.348 | 2.344 | 2.369 | 2.457 | 2.522 | 2.574 | 2.633 | 2.701 | 2.777 | 2.841 | 2.913 | 2.981 | 3.053 | 3.116 | 3.183 |
| Delivered Energy | 10.600 | 10.503 | 10.607 | 10.885 | 11.115 | 11.320 | 11.579 | 11.867 | 12.163 | 12.461 | 12.784 | 13.091 | 13.392 | 13.662 | 13.937 |
| Electricity Related Losses | 5.087 | 4.922 | 4.518 | 4.517 | 4.617 | 4.713 | 4.815 | 4.881 | 4.956 | 4.953 | 5.019 | 5.034 | 5.073 | 5.160 | 5.263 |
| Total | 15.687 | 15.425 | 15.125 | 15.403 | 15.732 | 16.033 | 16.393 | 16.747 | 17.118 | 17.414 | 17.802 | 18.125 | 18.465 | 18.822 | 19.200 |
| | | | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | | | |
| Distillate Fuel | 0.028 | 0.052 | 0.009 | 0.012 | 0.015 | 0.020 | 0.022 | 0.023 | 0.027 | 0.027 | 0.026 | 0.025 | 0.025 | 0.026 | 0.025 |
| Residual Fuel | 0.411 | 0.439 | 0.052 | 0.041 | 0.031 | 0.034 | 0.036 | 0.036 | 0.047 | 0.048 | 0.054 | 0.048 | 0.061 | 0.065 | 0.061 |
| Petroleum Subtotal | 0.439 | 0.491 | 0.061 | 0.052 | 0.046 | 0.054 | 0.058 | 0.059 | 0.074 | 0.076 | 0.081 | 0.073 | 0.087 | 0.091 | 0.086 |
| Natural Gas | 0.521 | 0.517 | 0.571 | 0.554 | 0.606 | 0.612 | 0.636 | 0.623 | 0.654 | 0.639 | 0.626 | 0.599 | 0.641 | 0.667 | 0.717 |
| Steam Coal | 4.278 | 4.049 | 4.007 | 4.072 | 4.166 | 4.281 | 4.406 | 4.551 | 4.651 | 4.718 | 4.845 | 4.961 | 5.010 | 5.109 | 5.209 |
| Nuclear Power | 1.978 | 2.017 | 2.028 | 2.039 | 2.055 | 2.070 | 2.075 | 2.077 | 2.078 | 2.080 | 2.097 | 2.099 | 2.101 | 2.118 | 2.139 |
| Renewable Energy/Other 15/ | 0.220 | 0.191 | 0.221 | 0.257 | 0.266 | 0.270 | 0.274 | 0.273 | 0.275 | 0.282 | 0.283 | 0.283 | 0.288 | 0.290 | 0.295 |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 7.435 | 7.266 | 6.888 | 6.975 | 7.139 | 7.286 | 7.448 | 7.582 | 7.732 | 7.795 | 7.932 | 8.015 | 8.126 | 8.275 | 8.446 |

**Table 5. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**South Atlantic**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | | | |
| Distillate Fuel | 1.282 | 1.326 | 1.265 | 1.317 | 1.363 | 1.404 | 1.451 | 1.500 | 1.551 | 1.601 | 1.653 | 1.701 | 1.746 | 1.785 | 1.822 |
| Kerosene | 0.046 | 0.049 | 0.037 | 0.041 | 0.041 | 0.041 | 0.040 | 0.041 | 0.041 | 0.041 | 0.040 | 0.040 | 0.039 | 0.039 | 0.038 |
| Jet Fuel 9/ | 0.388 | 0.371 | 0.364 | 0.367 | 0.368 | 0.375 | 0.386 | 0.396 | 0.408 | 0.421 | 0.432 | 0.444 | 0.457 | 0.470 | 0.484 |
| Liquefied Petroleum Gas | 0.159 | 0.145 | 0.154 | 0.148 | 0.148 | 0.148 | 0.149 | 0.151 | 0.152 | 0.154 | 0.156 | 0.158 | 0.160 | 0.161 | 0.163 |
| Motor Gasoline 2/ | 3.209 | 3.252 | 3.331 | 3.385 | 3.448 | 3.531 | 3.627 | 3.731 | 3.840 | 3.951 | 4.066 | 4.175 | 4.282 | 4.387 | 4.484 |
| Petrochemical Feedstocks | 0.144 | 0.124 | 0.132 | 0.136 | 0.138 | 0.138 | 0.140 | 0.143 | 0.147 | 0.151 | 0.156 | 0.161 | 0.165 | 0.168 | 0.170 |
| Residual Fuel | 0.622 | 0.636 | 0.223 | 0.221 | 0.212 | 0.217 | 0.221 | 0.225 | 0.239 | 0.243 | 0.251 | 0.247 | 0.263 | 0.268 | 0.265 |
| Other Petroleum 12/ | 0.357 | 0.377 | 0.402 | 0.381 | 0.377 | 0.370 | 0.367 | 0.371 | 0.367 | 0.375 | 0.384 | 0.393 | 0.401 | 0.406 | 0.412 |
| Petroleum Subtotal | 6.207 | 6.281 | 5.907 | 5.997 | 6.095 | 6.224 | 6.382 | 6.557 | 6.747 | 6.936 | 7.139 | 7.319 | 7.512 | 7.684 | 7.839 |
| Natural Gas | 2.092 | 2.010 | 2.122 | 2.170 | 2.271 | 2.302 | 2.363 | 2.383 | 2.446 | 2.465 | 2.488 | 2.499 | 2.577 | 2.634 | 2.718 |
| Lease and Plant Fuel 6/ | 0.014 | 0.014 | 0.014 | 0.014 | 0.013 | 0.014 | 0.015 | 0.016 | 0.017 | 0.017 | 0.018 | 0.019 | 0.019 | 0.020 | 0.020 |
| Pipeline Natural Gas | 0.069 | 0.066 | 0.053 | 0.056 | 0.056 | 0.056 | 0.057 | 0.057 | 0.059 | 0.059 | 0.061 | 0.061 | 0.063 | 0.063 | 0.064 |
| Natural Gas Subtotal | 2.175 | 2.090 | 2.189 | 2.239 | 2.341 | 2.372 | 2.435 | 2.457 | 2.522 | 2.541 | 2.567 | 2.579 | 2.659 | 2.716 | 2.802 |
| Metallurgical Coal | 0.073 | 0.066 | 0.059 | 0.062 | 0.062 | 0.062 | 0.062 | 0.062 | 0.063 | 0.062 | 0.061 | 0.059 | 0.058 | 0.057 | 0.056 |
| Steam Coal | 4.580 | 4.344 | 4.289 | 4.360 | 4.456 | 4.572 | 4.697 | 4.845 | 4.948 | 5.017 | 5.146 | 5.265 | 5.316 | 5.417 | 5.518 |
| Net Coal Coke Imports | 0.006 | 0.002 | 0.002 | 0.005 | 0.006 | 0.007 | 0.008 | 0.010 | 0.011 | 0.013 | 0.015 | 0.017 | 0.018 | 0.019 | 0.020 |
| Coal Subtotal | 4.659 | 4.413 | 4.351 | 4.427 | 4.524 | 4.641 | 4.768 | 4.917 | 5.022 | 5.091 | 5.222 | 5.341 | 5.392 | 5.493 | 5.594 |
| Nuclear Power | 1.978 | 2.017 | 2.028 | 2.039 | 2.055 | 2.070 | 2.075 | 2.077 | 2.078 | 2.080 | 2.097 | 2.099 | 2.101 | 2.118 | 2.139 |
| Renewable Energy 16/ | 0.669 | 0.624 | 0.651 | 0.700 | 0.716 | 0.726 | 0.734 | 0.739 | 0.749 | 0.765 | 0.777 | 0.788 | 0.801 | 0.812 | 0.825 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 15.687 | 15.425 | 15.125 | 15.403 | 15.732 | 16.033 | 16.393 | 16.747 | 17.118 | 17.414 | 17.802 | 18.125 | 18.465 | 18.822 | 19.200 |
| Energy Use & Related Statistics | | | | | | | | | | | | | | | |
| Delivered Energy Use | 10.600 | 10.503 | 10.607 | 10.885 | 11.115 | 11.320 | 11.579 | 11.867 | 12.163 | 12.461 | 12.784 | 13.091 | 13.392 | 13.662 | 13.937 |
| Total Energy Use | 15.687 | 15.425 | 15.125 | 15.403 | 15.732 | 16.033 | 16.393 | 16.747 | 17.118 | 17.414 | 17.802 | 18.125 | 18.465 | 18.822 | 19.200 |
| Population (millions) | 50.338 | 50.965 | 51.592 | 52.219 | 52.854 | 53.498 | 54.144 | 54.794 | 55.453 | 56.121 | 56.793 | 57.471 | 58.159 | 58.856 | 59.558 |
| US GDP (billion 1996 dollars) | 9191 | 9215 | 9440 | 9743 | 10074 | 10361 | 10667 | 11017 | 11408 | 11810 | 12258 | 12671 | 13082 | 13480 | 13893 |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1578.2 | 1558.6 | 1536.2 | 1567.9 | 1597.2 | 1623.7 | 1662.3 | 1699.7 | 1734.5 | 1765.8 | 1800.5 | 1832.6 | 1862.1 | 1889.2 | 1915.7 |

**Table 5. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**South Atlantic**

| Sector and Source | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | |
| Distillate Fuel | 0.072 | 0.070 | 0.069 | 0.067 | 0.066 | 0.064 | 0.062 | 0.061 | 0.060 | 0.059 | 0.057 | -1.4% |
| Kerosene | 0.027 | 0.026 | 0.025 | 0.024 | 0.023 | 0.022 | 0.022 | 0.021 | 0.020 | 0.019 | 0.018 | -3.0% |
| Liquefied Petroleum Gas | 0.086 | 0.087 | 0.087 | 0.087 | 0.087 | 0.088 | 0.088 | 0.088 | 0.089 | 0.089 | 0.089 | 0.0% |
| Petroleum Subtotal | 0.184 | 0.183 | 0.181 | 0.178 | 0.176 | 0.174 | 0.172 | 0.170 | 0.168 | 0.167 | 0.165 | -0.9% |
| Natural Gas | 0.659 | 0.672 | 0.680 | 0.692 | 0.703 | 0.716 | 0.725 | 0.737 | 0.749 | 0.764 | 0.775 | 2.2% |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.4% |
| Renewable Energy 1/ | 0.070 | 0.071 | 0.071 | 0.071 | 0.071 | 0.071 | 0.071 | 0.071 | 0.071 | 0.071 | 0.071 | 0.5% |
| Electricity | 1.349 | 1.373 | 1.390 | 1.411 | 1.432 | 1.457 | 1.474 | 1.496 | 1.518 | 1.547 | 1.568 | 1.9% |
| Delivered Energy | 2.264 | 2.300 | 2.323 | 2.353 | 2.383 | 2.420 | 2.443 | 2.474 | 2.507 | 2.550 | 2.581 | 1.7% |
| Electricity Related Losses | 2.278 | 2.327 | 2.370 | 2.422 | 2.454 | 2.492 | 2.495 | 2.559 | 2.604 | 2.667 | 2.730 | 1.1% |
| Total | 4.543 | 4.627 | 4.693 | 4.775 | 4.837 | 4.911 | 4.938 | 5.033 | 5.112 | 5.217 | 5.311 | 1.4% |
| Commercial | | | | | | | | | | | | |
| Distillate Fuel | 0.083 | 0.084 | 0.085 | 0.086 | 0.087 | 0.087 | 0.088 | 0.089 | 0.090 | 0.091 | 0.092 | 1.4% |
| Residual Fuel | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | -1.0% |
| Kerosene | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | -0.4% |
| Liquefied Petroleum Gas | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.5% |
| Motor Gasoline 2/ | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | -0.8% |
| Petroleum Subtotal | 0.115 | 0.116 | 0.118 | 0.119 | 0.119 | 0.120 | 0.121 | 0.122 | 0.124 | 0.125 | 0.126 | 0.9% |
| Natural Gas | 0.566 | 0.580 | 0.593 | 0.608 | 0.623 | 0.637 | 0.650 | 0.664 | 0.678 | 0.693 | 0.709 | 2.3% |
| Coal | 0.017 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 1.2% |
| Renewable Energy 3/ | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.0% |
| Electricity | 1.211 | 1.246 | 1.282 | 1.320 | 1.358 | 1.397 | 1.436 | 1.475 | 1.515 | 1.555 | 1.598 | 2.9% |
| Delivered Energy | 1.930 | 1.980 | 2.031 | 2.085 | 2.139 | 2.193 | 2.247 | 2.301 | 2.356 | 2.413 | 2.473 | 2.6% |
| Electricity Related Losses | 2.045 | 2.112 | 2.186 | 2.266 | 2.327 | 2.389 | 2.431 | 2.524 | 2.598 | 2.682 | 2.782 | 2.1% |
| Total | 3.976 | 4.092 | 4.217 | 4.351 | 4.466 | 4.582 | 4.678 | 4.826 | 4.954 | 5.095 | 5.254 | 2.3% |
| Industrial 4/ | | | | | | | | | | | | |
| Distillate Fuel | 0.203 | 0.205 | 0.207 | 0.209 | 0.212 | 0.215 | 0.218 | 0.220 | 0.223 | 0.226 | 0.229 | 1.1% |
| Liquefied Petroleum Gas | 0.049 | 0.049 | 0.050 | 0.051 | 0.052 | 0.052 | 0.053 | 0.054 | 0.055 | 0.056 | 0.057 | 1.8% |
| Petrochemical Feedstocks | 0.172 | 0.174 | 0.177 | 0.180 | 0.183 | 0.185 | 0.188 | 0.191 | 0.194 | 0.197 | 0.200 | 2.0% |
| Residual Fuel | 0.096 | 0.096 | 0.097 | 0.097 | 0.098 | 0.100 | 0.101 | 0.102 | 0.102 | 0.103 | 0.103 | 0.5% |
| Motor Gasoline 2/ | 0.025 | 0.025 | 0.025 | 0.026 | 0.026 | 0.026 | 0.027 | 0.027 | 0.027 | 0.028 | 0.028 | 1.0% |
| Other Petroleum 5/ | 0.368 | 0.371 | 0.374 | 0.378 | 0.384 | 0.389 | 0.394 | 0.399 | 0.403 | 0.409 | 0.414 | 0.8% |
| Petroleum Subtotal | 0.913 | 0.921 | 0.931 | 0.940 | 0.954 | 0.968 | 0.980 | 0.993 | 1.005 | 1.018 | 1.030 | 1.1% |
| Natural Gas | 0.796 | 0.803 | 0.813 | 0.826 | 0.840 | 0.850 | 0.862 | 0.877 | 0.889 | 0.906 | 0.919 | 1.6% |
| Lease and Plant Fuel 6/ | 0.020 | 0.021 | 0.021 | 0.020 | 0.020 | 0.019 | 0.019 | 0.018 | 0.018 | 0.017 | 0.017 | 0.7% |
| Natural Gas Subtotal | 0.817 | 0.824 | 0.834 | 0.846 | 0.860 | 0.870 | 0.881 | 0.895 | 0.907 | 0.923 | 0.936 | 1.6% |
| Metallurgical Coal | 0.055 | 0.054 | 0.053 | 0.052 | 0.051 | 0.050 | 0.049 | 0.049 | 0.048 | 0.047 | 0.046 | -1.5% |
| Steam Coal | 0.291 | 0.292 | 0.293 | 0.294 | 0.295 | 0.296 | 0.297 | 0.298 | 0.300 | 0.300 | 0.301 | 0.3% |
| Net Coal Coke Imports | 0.021 | 0.021 | 0.022 | 0.023 | 0.023 | 0.024 | 0.024 | 0.025 | 0.026 | 0.027 | 0.028 | 10.6% |
| Coal Subtotal | 0.367 | 0.367 | 0.368 | 0.368 | 0.370 | 0.370 | 0.371 | 0.372 | 0.373 | 0.374 | 0.374 | 0.3% |
| Renewable Energy 7/ | 0.445 | 0.451 | 0.458 | 0.466 | 0.475 | 0.482 | 0.489 | 0.498 | 0.507 | 0.516 | 0.525 | 1.7% |
| Electricity | 0.667 | 0.675 | 0.685 | 0.695 | 0.708 | 0.718 | 0.728 | 0.741 | 0.753 | 0.766 | 0.777 | 1.6% |
| Delivered Energy | 3.209 | 3.238 | 3.275 | 3.317 | 3.366 | 3.408 | 3.450 | 3.499 | 3.545 | 3.597 | 3.643 | 1.3% |
| Electricity Related Losses | 1.126 | 1.144 | 1.167 | 1.194 | 1.213 | 1.228 | 1.233 | 1.268 | 1.292 | 1.321 | 1.353 | 0.8% |

**Table 5. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**South Atlantic**

| Sector and Source | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 4.335 | 4.382 | 4.443 | 4.510 | 4.579 | 4.636 | 4.683 | 4.767 | 4.837 | 4.918 | 4.997 | 1.2% |
| | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | |
| Distillate Fuel 8/ | 1.472 | 1.501 | 1.534 | 1.567 | 1.604 | 1.638 | 1.671 | 1.711 | 1.751 | 1.795 | 1.835 | 2.8% |
| Jet Fuel 9/ | 0.498 | 0.512 | 0.526 | 0.541 | 0.555 | 0.569 | 0.583 | 0.597 | 0.611 | 0.625 | 0.640 | 2.3% |
| Motor Gasoline 2/ | 4.547 | 4.638 | 4.725 | 4.816 | 4.914 | 4.998 | 5.081 | 5.169 | 5.266 | 5.371 | 5.468 | 2.2% |
| Residual Fuel | 0.107 | 0.108 | 0.109 | 0.110 | 0.110 | 0.111 | 0.112 | 0.113 | 0.114 | 0.115 | 0.116 | 0.6% |
| Liquefied Petroleum Gas | 0.013 | 0.013 | 0.014 | 0.014 | 0.015 | 0.015 | 0.015 | 0.016 | 0.016 | 0.017 | 0.018 | 7.7% |
| Other Petroleum 10/ | 0.053 | 0.054 | 0.055 | 0.056 | 0.057 | 0.058 | 0.059 | 0.060 | 0.060 | 0.062 | 0.063 | 1.7% |
| Petroleum Subtotal | 6.690 | 6.825 | 6.962 | 7.104 | 7.255 | 7.390 | 7.521 | 7.665 | 7.819 | 7.985 | 8.140 | 2.3% |
| Pipeline Fuel Natural Gas | 0.065 | 0.065 | 0.064 | 0.064 | 0.065 | 0.065 | 0.066 | 0.066 | 0.066 | 0.067 | 0.067 | 0.0% |
| Compressed Natural Gas | 0.014 | 0.014 | 0.015 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 | 0.018 | 0.018 | 0.019 | 10.1% |
| Renewable Energy (E85) 11/ | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 9.2% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 0.021 | 0.021 | 0.022 | 0.023 | 0.023 | 0.024 | 0.025 | 0.026 | 0.027 | 0.028 | 0.029 | 3.1% |
| Delivered Energy | 6.789 | 6.926 | 7.064 | 7.208 | 7.361 | 7.497 | 7.630 | 7.775 | 7.931 | 8.099 | 8.255 | 2.3% |
| Electricity Related Losses | 0.035 | 0.036 | 0.037 | 0.039 | 0.040 | 0.041 | 0.042 | 0.044 | 0.046 | 0.048 | 0.050 | 2.3% |
| Total | 6.824 | 6.962 | 7.102 | 7.247 | 7.401 | 7.538 | 7.673 | 7.820 | 7.977 | 8.146 | 8.305 | 2.3% |
| | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | |
| Distillate Fuel | 1.830 | 1.861 | 1.895 | 1.930 | 1.968 | 2.005 | 2.040 | 2.081 | 2.123 | 2.170 | 2.213 | 2.3% |
| Kerosene | 0.037 | 0.037 | 0.036 | 0.035 | 0.034 | 0.033 | 0.032 | 0.031 | 0.031 | 0.030 | 0.029 | -2.2% |
| Jet Fuel 9/ | 0.498 | 0.512 | 0.526 | 0.541 | 0.555 | 0.569 | 0.583 | 0.597 | 0.611 | 0.625 | 0.640 | 2.3% |
| Liquefied Petroleum Gas | 0.164 | 0.166 | 0.167 | 0.169 | 0.171 | 0.173 | 0.174 | 0.176 | 0.178 | 0.180 | 0.182 | 0.9% |
| Motor Gasoline 2/ | 4.578 | 4.669 | 4.756 | 4.848 | 4.946 | 5.030 | 5.113 | 5.202 | 5.299 | 5.404 | 5.502 | 2.2% |
| Petrochemical Feedstocks | 0.172 | 0.174 | 0.177 | 0.180 | 0.183 | 0.185 | 0.188 | 0.191 | 0.194 | 0.197 | 0.200 | 2.0% |
| Residual Fuel | 0.205 | 0.206 | 0.208 | 0.209 | 0.211 | 0.214 | 0.215 | 0.217 | 0.219 | 0.220 | 0.222 | 0.5% |
| Other Petroleum 12/ | 0.417 | 0.421 | 0.425 | 0.430 | 0.437 | 0.443 | 0.449 | 0.455 | 0.460 | 0.466 | 0.473 | 0.9% |
| Petroleum Subtotal | 7.902 | 8.046 | 8.191 | 8.342 | 8.505 | 8.652 | 8.794 | 8.950 | 9.115 | 9.294 | 9.460 | 2.1% |
| Natural Gas | 2.035 | 2.068 | 2.102 | 2.141 | 2.183 | 2.220 | 2.255 | 2.295 | 2.334 | 2.381 | 2.423 | 2.0% |
| Lease and Plant Fuel 6/ | 0.020 | 0.021 | 0.021 | 0.020 | 0.020 | 0.019 | 0.019 | 0.018 | 0.018 | 0.017 | 0.017 | 0.7% |
| Pipeline Natural Gas | 0.065 | 0.065 | 0.064 | 0.064 | 0.065 | 0.065 | 0.066 | 0.066 | 0.066 | 0.067 | 0.067 | 0.0% |
| Natural Gas Subtotal | 2.120 | 2.154 | 2.186 | 2.226 | 2.267 | 2.305 | 2.339 | 2.379 | 2.417 | 2.465 | 2.506 | 2.0% |
| Metallurgical Coal | 0.055 | 0.054 | 0.053 | 0.052 | 0.051 | 0.050 | 0.049 | 0.049 | 0.048 | 0.047 | 0.046 | -1.5% |
| Steam Coal | 0.310 | 0.311 | 0.312 | 0.313 | 0.314 | 0.316 | 0.317 | 0.318 | 0.320 | 0.321 | 0.321 | 0.4% |
| Net Coal Coke Imports | 0.021 | 0.021 | 0.022 | 0.023 | 0.023 | 0.024 | 0.024 | 0.025 | 0.026 | 0.027 | 0.028 | 10.6% |
| Coal Subtotal | 0.385 | 0.386 | 0.387 | 0.387 | 0.389 | 0.390 | 0.391 | 0.392 | 0.394 | 0.394 | 0.395 | 0.3% |
| Renewable Energy 13/ | 0.537 | 0.543 | 0.550 | 0.558 | 0.567 | 0.575 | 0.582 | 0.591 | 0.600 | 0.610 | 0.619 | 1.5% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 3.248 | 3.315 | 3.379 | 3.448 | 3.521 | 3.596 | 3.663 | 3.738 | 3.813 | 3.896 | 3.971 | 2.2% |
| Delivered Energy | 14.193 | 14.444 | 14.694 | 14.962 | 15.249 | 15.518 | 15.770 | 16.050 | 16.339 | 16.659 | 16.952 | 2.0% |
| Electricity Related Losses | 5.485 | 5.619 | 5.761 | 5.921 | 6.035 | 6.150 | 6.202 | 6.396 | 6.541 | 6.717 | 6.915 | 1.4% |
| Total | 19.678 | 20.063 | 20.454 | 20.882 | 21.284 | 21.668 | 21.971 | 22.446 | 22.879 | 23.375 | 23.867 | 1.8% |
| | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | |
| Distillate Fuel | 0.023 | 0.024 | 0.021 | 0.018 | 0.016 | 0.016 | 0.016 | 0.017 | 0.016 | 0.018 | 0.016 | -4.7% |
| Residual Fuel | 0.056 | 0.057 | 0.055 | 0.046 | 0.041 | 0.047 | 0.044 | 0.043 | 0.040 | 0.040 | 0.035 | -10.0% |
| Petroleum Subtotal | 0.080 | 0.082 | 0.076 | 0.064 | 0.056 | 0.062 | 0.060 | 0.059 | 0.056 | 0.058 | 0.051 | -9.0% |
| Natural Gas | 0.743 | 0.784 | 0.804 | 0.847 | 0.868 | 0.906 | 0.941 | 0.968 | 0.983 | 1.038 | 1.059 | 3.0% |
| Steam Coal | 5.456 | 5.612 | 5.802 | 6.001 | 6.174 | 6.320 | 6.406 | 6.645 | 6.848 | 7.045 | 7.299 | 2.5% |
| Nuclear Power | 2.159 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 0.3% |
| Renewable Energy/Other 15/ | 0.295 | 0.296 | 0.296 | 0.296 | 0.296 | 0.296 | 0.296 | 0.300 | 0.305 | 0.310 | 0.316 | 2.1% |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Total | 8.733 | 8.934 | 9.140 | 9.369 | 9.556 | 9.746 | 9.865 | 10.134 | 10.353 | 10.613 | 10.886 | 1.7% |

**Table 5. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**South Atlantic**

| Sector and Source | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | |
| Distillate Fuel | 1.853 | 1.885 | 1.916 | 1.948 | 1.984 | 2.020 | 2.055 | 2.098 | 2.140 | 2.188 | 2.229 | 2.2% |
| Kerosene | 0.037 | 0.037 | 0.036 | 0.035 | 0.034 | 0.033 | 0.032 | 0.031 | 0.031 | 0.030 | 0.029 | -2.2% |
| Jet Fuel 9/ | 0.498 | 0.512 | 0.526 | 0.541 | 0.555 | 0.569 | 0.583 | 0.597 | 0.611 | 0.625 | 0.640 | 2.3% |
| Liquefied Petroleum Gas | 0.164 | 0.166 | 0.167 | 0.169 | 0.171 | 0.173 | 0.174 | 0.176 | 0.178 | 0.180 | 0.182 | 0.9% |
| Motor Gasoline 2/ | 4.578 | 4.669 | 4.756 | 4.848 | 4.946 | 5.030 | 5.113 | 5.202 | 5.299 | 5.404 | 5.502 | 2.2% |
| Petrochemical Feedstocks | 0.172 | 0.174 | 0.177 | 0.180 | 0.183 | 0.185 | 0.188 | 0.191 | 0.194 | 0.197 | 0.200 | 2.0% |
| Residual Fuel | 0.262 | 0.264 | 0.263 | 0.255 | 0.252 | 0.260 | 0.260 | 0.260 | 0.259 | 0.261 | 0.256 | -3.7% |
| Other Petroleum 12/ | 0.417 | 0.421 | 0.425 | 0.430 | 0.437 | 0.443 | 0.449 | 0.455 | 0.460 | 0.466 | 0.473 | 0.9% |
| Petroleum Subtotal | 7.982 | 8.127 | 8.267 | 8.405 | 8.561 | 8.715 | 8.854 | 9.010 | 9.171 | 9.352 | 9.511 | 1.7% |
| Natural Gas | 2.778 | 2.853 | 2.906 | 2.989 | 3.051 | 3.126 | 3.195 | 3.263 | 3.317 | 3.419 | 3.481 | 2.3% |
| Lease and Plant Fuel 6/ | 0.020 | 0.021 | 0.021 | 0.020 | 0.020 | 0.019 | 0.019 | 0.018 | 0.018 | 0.017 | 0.017 | 0.7% |
| Pipeline Natural Gas | 0.065 | 0.065 | 0.064 | 0.064 | 0.065 | 0.065 | 0.066 | 0.066 | 0.066 | 0.067 | 0.067 | 0.0% |
| Natural Gas Subtotal | 2.863 | 2.938 | 2.990 | 3.073 | 3.136 | 3.211 | 3.280 | 3.347 | 3.400 | 3.503 | 3.565 | 2.3% |
| Metallurgical Coal | 0.055 | 0.054 | 0.053 | 0.052 | 0.051 | 0.050 | 0.049 | 0.049 | 0.048 | 0.047 | 0.046 | -1.5% |
| Steam Coal | 5.765 | 5.923 | 6.114 | 6.314 | 6.488 | 6.636 | 6.724 | 6.963 | 7.168 | 7.366 | 7.621 | 2.4% |
| Net Coal Coke Imports | 0.021 | 0.021 | 0.022 | 0.023 | 0.023 | 0.024 | 0.024 | 0.025 | 0.026 | 0.027 | 0.028 | 10.6% |
| Coal Subtotal | 5.841 | 5.998 | 6.189 | 6.388 | 6.563 | 6.710 | 6.798 | 7.037 | 7.242 | 7.440 | 7.695 | 2.3% |
| Nuclear Power | 2.159 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 2.161 | 0.3% |
| Renewable Energy 16/ | 0.832 | 0.839 | 0.846 | 0.854 | 0.862 | 0.870 | 0.878 | 0.890 | 0.904 | 0.920 | 0.934 | 1.7% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Total | 19.678 | 20.063 | 20.454 | 20.882 | 21.284 | 21.668 | 21.971 | 22.446 | 22.879 | 23.375 | 23.867 | 1.8% |
| Energy Use & Related Statistics | | | | | | | | | | | | |
| Delivered Energy Use | 14.193 | 14.444 | 14.694 | 14.962 | 15.249 | 15.518 | 15.770 | 16.050 | 16.339 | 16.659 | 16.952 | 2.0% |
| Total Energy Use | 19.678 | 20.063 | 20.454 | 20.882 | 21.284 | 21.668 | 21.971 | 22.446 | 22.879 | 23.375 | 23.867 | 1.8% |
| Population (millions) | 60.265 | 60.975 | 61.688 | 62.402 | 63.117 | 63.833 | 64.551 | 65.273 | 65.997 | 66.726 | 67.465 | 1.2% |
| US GDP (billion 1996 dollars) | 14288 | 14681 | 15101 | 15540 | 16013 | 16450 | 16888 | 17363 | 17858 | 18389 | 18917 | 3.0% |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1944.2 | 1970.2 | 1996.8 | 2024.6 | 2055.5 | 2082.5 | 2108.3 | 2139.7 | 2170.8 | 2204.3 | 2236.9 | 1.5% |

**Table 5. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**South Atlantic**

1/ Includes wood used for residential heating. See Table A18 estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.
2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.
3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.
4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.
5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.
6/ Represents natural gas used in the field gathering and processing plant machinery.
7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.
8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.
9/ Includes only kerosene type.
10/ Includes aviation gasoline and lubricants.
11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.
13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.
16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.
Sources: 2000 and 2001 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). 2000 and 2001 population and gross domestic product: Global Insight macroeconomic model CTL0802. 2000 and 2001 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2001, DOE/EIA-0573(2001) (Washington, DC, December 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 6. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East South Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | |
| Distillate Fuel | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Kerosene | 0.005 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Liquefied Petroleum Gas | 0.044 | 0.039 | 0.041 | 0.038 | 0.037 | 0.036 | 0.035 | 0.035 | 0.034 | 0.034 | 0.033 | 0.033 | 0.032 |
| Petroleum Subtotal | 0.053 | 0.049 | 0.050 | 0.047 | 0.046 | 0.045 | 0.044 | 0.044 | 0.043 | 0.042 | 0.042 | 0.041 | 0.041 |
| Natural Gas | 0.207 | 0.194 | 0.198 | 0.206 | 0.209 | 0.209 | 0.211 | 0.211 | 0.212 | 0.211 | 0.211 | 0.210 | 0.211 |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Renewable Energy 1/ | 0.023 | 0.022 | 0.022 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 |
| Electricity | 0.347 | 0.342 | 0.350 | 0.360 | 0.365 | 0.368 | 0.373 | 0.378 | 0.385 | 0.389 | 0.394 | 0.397 | 0.402 |
| Delivered Energy | 0.632 | 0.609 | 0.621 | 0.637 | 0.644 | 0.647 | 0.652 | 0.657 | 0.664 | 0.667 | 0.670 | 0.673 | 0.678 |
| Electricity Related Losses | 0.771 | 0.807 | 0.839 | 0.871 | 0.881 | 0.887 | 0.908 | 0.948 | 0.960 | 0.975 | 0.989 | 1.006 | 1.014 |
| Total | 1.402 | 1.416 | 1.460 | 1.508 | 1.525 | 1.534 | 1.559 | 1.605 | 1.624 | 1.642 | 1.659 | 1.679 | 1.692 |
| Commercial | | | | | | | | | | | | | |
| Distillate Fuel | 0.007 | 0.009 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 0.012 |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Kerosene | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Liquefied Petroleum Gas | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 |
| Motor Gasoline 2/ | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Petroleum Subtotal | 0.018 | 0.019 | 0.020 | 0.019 | 0.019 | 0.020 | 0.020 | 0.021 | 0.021 | 0.021 | 0.022 | 0.022 | 0.022 |
| Natural Gas | 0.267 | 0.265 | 0.266 | 0.277 | 0.285 | 0.290 | 0.296 | 0.300 | 0.304 | 0.307 | 0.310 | 0.314 | 0.317 |
| Coal | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 |
| Renewable Energy 3/ | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Electricity | 0.351 | 0.354 | 0.369 | 0.372 | 0.381 | 0.390 | 0.400 | 0.411 | 0.422 | 0.433 | 0.444 | 0.455 | 0.467 |
| Delivered Energy | 0.646 | 0.650 | 0.666 | 0.679 | 0.696 | 0.711 | 0.727 | 0.743 | 0.759 | 0.774 | 0.788 | 0.803 | 0.818 |
| Electricity Related Losses | 0.778 | 0.836 | 0.884 | 0.901 | 0.920 | 0.939 | 0.973 | 1.029 | 1.052 | 1.086 | 1.116 | 1.153 | 1.177 |
| Total | 1.424 | 1.485 | 1.550 | 1.580 | 1.616 | 1.650 | 1.700 | 1.772 | 1.811 | 1.860 | 1.904 | 1.956 | 1.995 |
| Industrial 4/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.086 | 0.088 | 0.083 | 0.084 | 0.085 | 0.086 | 0.087 | 0.089 | 0.091 | 0.093 | 0.095 | 0.096 | 0.098 |
| Liquefied Petroleum Gas | 0.039 | 0.036 | 0.038 | 0.039 | 0.038 | 0.038 | 0.038 | 0.039 | 0.040 | 0.041 | 0.042 | 0.043 | 0.044 |
| Petrochemical Feedstocks | 0.106 | 0.091 | 0.097 | 0.100 | 0.101 | 0.101 | 0.103 | 0.105 | 0.108 | 0.111 | 0.115 | 0.118 | 0.121 |
| Residual Fuel | 0.005 | 0.005 | 0.004 | 0.005 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 |
| Motor Gasoline 2/ | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.015 |
| Other Petroleum 5/ | 0.285 | 0.297 | 0.312 | 0.300 | 0.303 | 0.300 | 0.300 | 0.303 | 0.303 | 0.308 | 0.312 | 0.314 | 0.317 |
| Petroleum Subtotal | 0.535 | 0.531 | 0.548 | 0.541 | 0.544 | 0.542 | 0.545 | 0.554 | 0.560 | 0.571 | 0.581 | 0.590 | 0.599 |
| Natural Gas | 0.526 | 0.483 | 0.514 | 0.518 | 0.523 | 0.525 | 0.536 | 0.544 | 0.548 | 0.558 | 0.572 | 0.586 | 0.596 |
| Lease and Plant Fuel 6/ | 0.023 | 0.044 | 0.023 | 0.027 | 0.028 | 0.027 | 0.027 | 0.026 | 0.027 | 0.027 | 0.027 | 0.027 | 0.028 |
| Natural Gas Subtotal | 0.548 | 0.527 | 0.537 | 0.545 | 0.551 | 0.553 | 0.563 | 0.570 | 0.575 | 0.585 | 0.599 | 0.613 | 0.624 |
| Metallurgical Coal | 0.101 | 0.091 | 0.082 | 0.087 | 0.087 | 0.086 | 0.086 | 0.086 | 0.087 | 0.086 | 0.084 | 0.083 | 0.081 |
| Steam Coal | 0.185 | 0.180 | 0.172 | 0.175 | 0.177 | 0.177 | 0.177 | 0.179 | 0.181 | 0.182 | 0.183 | 0.184 | 0.186 |
| Net Coal Coke Imports | 0.008 | 0.003 | 0.003 | 0.006 | 0.008 | 0.010 | 0.012 | 0.014 | 0.016 | 0.018 | 0.021 | 0.023 | 0.025 |
| Coal Subtotal | 0.294 | 0.275 | 0.258 | 0.268 | 0.271 | 0.273 | 0.275 | 0.279 | 0.284 | 0.285 | 0.288 | 0.290 | 0.292 |
| Renewable Energy 7/ | 0.206 | 0.201 | 0.200 | 0.206 | 0.211 | 0.214 | 0.217 | 0.221 | 0.225 | 0.231 | 0.238 | 0.244 | 0.250 |
| Electricity | 0.418 | 0.390 | 0.363 | 0.381 | 0.389 | 0.394 | 0.402 | 0.412 | 0.425 | 0.434 | 0.447 | 0.458 | 0.469 |
| Delivered Energy | 2.002 | 1.923 | 1.905 | 1.941 | 1.967 | 1.975 | 2.001 | 2.036 | 2.068 | 2.106 | 2.153 | 2.196 | 2.233 |
| Electricity Related Losses | 0.928 | 0.919 | 0.870 | 0.924 | 0.941 | 0.948 | 0.978 | 1.033 | 1.059 | 1.088 | 1.122 | 1.160 | 1.183 |

**Table 6. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East South Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 2.930 | 2.842 | 2.775 | 2.865 | 2.908 | 2.923 | 2.979 | 3.069 | 3.128 | 3.194 | 3.275 | 3.356 | 3.416 |
| | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.470 | 0.479 | 0.476 | 0.493 | 0.509 | 0.520 | 0.535 | 0.551 | 0.567 | 0.584 | 0.603 | 0.620 | 0.635 |
| Jet Fuel 9/ | 0.178 | 0.171 | 0.167 | 0.165 | 0.164 | 0.168 | 0.172 | 0.176 | 0.181 | 0.186 | 0.191 | 0.195 | 0.200 |
| Motor Gasoline 2/ | 1.129 | 1.144 | 1.172 | 1.196 | 1.218 | 1.245 | 1.274 | 1.305 | 1.337 | 1.369 | 1.401 | 1.430 | 1.457 |
| Residual Fuel | 0.015 | 0.014 | 0.013 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.013 | 0.013 | 0.013 | 0.013 |
| Liquefied Petroleum Gas | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 |
| Other Petroleum 10/ | 0.016 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.019 | 0.019 | 0.019 | 0.020 |
| Petroleum Subtotal | 1.810 | 1.826 | 1.848 | 1.888 | 1.925 | 1.966 | 2.015 | 2.067 | 2.120 | 2.174 | 2.230 | 2.282 | 2.329 |
| Pipeline Fuel Natural Gas | 0.083 | 0.079 | 0.080 | 0.087 | 0.091 | 0.092 | 0.095 | 0.097 | 0.102 | 0.106 | 0.110 | 0.112 | 0.114 |
| Compressed Natural Gas | 0.000 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.003 | 0.003 | 0.004 | 0.004 | 0.005 | 0.005 | 0.006 |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 |
| Delivered Energy | 1.898 | 1.911 | 1.934 | 1.980 | 2.023 | 2.065 | 2.118 | 2.173 | 2.231 | 2.290 | 2.350 | 2.405 | 2.455 |
| Electricity Related Losses | 0.010 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.015 |
| Total | 1.908 | 1.921 | 1.945 | 1.992 | 2.034 | 2.077 | 2.130 | 2.186 | 2.244 | 2.303 | 2.364 | 2.420 | 2.470 |
| | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | |
| Distillate Fuel | 0.568 | 0.580 | 0.572 | 0.590 | 0.607 | 0.620 | 0.636 | 0.655 | 0.673 | 0.692 | 0.713 | 0.732 | 0.748 |
| Kerosene | 0.009 | 0.010 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 |
| Jet Fuel 9/ | 0.178 | 0.171 | 0.167 | 0.165 | 0.164 | 0.168 | 0.172 | 0.176 | 0.181 | 0.186 | 0.191 | 0.195 | 0.200 |
| Liquefied Petroleum Gas | 0.092 | 0.084 | 0.088 | 0.085 | 0.084 | 0.084 | 0.084 | 0.084 | 0.085 | 0.085 | 0.086 | 0.087 | 0.088 |
| Motor Gasoline 2/ | 1.144 | 1.159 | 1.187 | 1.211 | 1.233 | 1.259 | 1.289 | 1.320 | 1.353 | 1.384 | 1.416 | 1.446 | 1.474 |
| Petrochemical Feedstocks | 0.106 | 0.091 | 0.097 | 0.100 | 0.101 | 0.101 | 0.103 | 0.105 | 0.108 | 0.111 | 0.115 | 0.118 | 0.121 |
| Residual Fuel | 0.020 | 0.019 | 0.018 | 0.018 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 |
| Other Petroleum 12/ | 0.299 | 0.312 | 0.327 | 0.316 | 0.319 | 0.316 | 0.315 | 0.319 | 0.319 | 0.325 | 0.328 | 0.331 | 0.334 |
| Petroleum Subtotal | 2.417 | 2.426 | 2.465 | 2.494 | 2.534 | 2.573 | 2.624 | 2.685 | 2.744 | 2.809 | 2.875 | 2.935 | 2.991 |
| Natural Gas | 1.000 | 0.943 | 0.979 | 1.003 | 1.020 | 1.027 | 1.045 | 1.058 | 1.068 | 1.081 | 1.098 | 1.115 | 1.129 |
| Lease and Plant Fuel 6/ | 0.023 | 0.044 | 0.023 | 0.027 | 0.028 | 0.027 | 0.027 | 0.026 | 0.027 | 0.027 | 0.027 | 0.027 | 0.028 |
| Pipeline Natural Gas | 0.083 | 0.079 | 0.080 | 0.087 | 0.091 | 0.092 | 0.095 | 0.097 | 0.102 | 0.106 | 0.110 | 0.112 | 0.114 |
| Natural Gas Subtotal | 1.106 | 1.067 | 1.082 | 1.116 | 1.138 | 1.146 | 1.167 | 1.182 | 1.196 | 1.214 | 1.235 | 1.255 | 1.271 |
| Metallurgical Coal | 0.101 | 0.091 | 0.082 | 0.087 | 0.087 | 0.086 | 0.086 | 0.086 | 0.087 | 0.086 | 0.084 | 0.083 | 0.081 |
| Steam Coal | 0.193 | 0.188 | 0.181 | 0.185 | 0.185 | 0.186 | 0.186 | 0.188 | 0.190 | 0.191 | 0.193 | 0.194 | 0.195 |
| Net Coal Coke Imports | 0.008 | 0.003 | 0.003 | 0.006 | 0.008 | 0.010 | 0.012 | 0.014 | 0.016 | 0.018 | 0.021 | 0.023 | 0.025 |
| Coal Subtotal | 0.302 | 0.283 | 0.266 | 0.278 | 0.280 | 0.283 | 0.284 | 0.288 | 0.293 | 0.295 | 0.298 | 0.300 | 0.301 |
| Renewable Energy 13/ | 0.233 | 0.226 | 0.225 | 0.232 | 0.237 | 0.240 | 0.243 | 0.247 | 0.251 | 0.257 | 0.264 | 0.271 | 0.276 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 1.120 | 1.091 | 1.087 | 1.117 | 1.139 | 1.156 | 1.179 | 1.207 | 1.237 | 1.262 | 1.290 | 1.317 | 1.343 |
| Delivered Energy | 5.178 | 5.093 | 5.126 | 5.237 | 5.330 | 5.398 | 5.498 | 5.609 | 5.722 | 5.836 | 5.962 | 6.077 | 6.183 |
| Electricity Related Losses | 2.486 | 2.573 | 2.604 | 2.708 | 2.753 | 2.786 | 2.871 | 3.023 | 3.085 | 3.163 | 3.240 | 3.333 | 3.389 |
| Total | 7.664 | 7.665 | 7.730 | 7.945 | 8.083 | 8.185 | 8.369 | 8.632 | 8.806 | 8.999 | 9.202 | 9.410 | 9.572 |
| | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.006 | 0.007 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Residual Fuel | 0.035 | 0.057 | 0.008 | 0.003 | 0.007 | 0.005 | 0.002 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 |
| Petroleum Subtotal | 0.041 | 0.064 | 0.010 | 0.006 | 0.009 | 0.008 | 0.005 | 0.005 | 0.006 | 0.005 | 0.005 | 0.005 | 0.006 |
| Natural Gas | 0.157 | 0.226 | 0.308 | 0.380 | 0.397 | 0.341 | 0.350 | 0.377 | 0.472 | 0.567 | 0.680 | 0.800 | 0.862 |
| Steam Coal | 2.484 | 2.476 | 2.432 | 2.471 | 2.499 | 2.592 | 2.691 | 2.756 | 2.750 | 2.759 | 2.749 | 2.748 | 2.754 |
| Nuclear Power | 0.703 | 0.716 | 0.723 | 0.725 | 0.739 | 0.754 | 0.756 | 0.844 | 0.845 | 0.846 | 0.848 | 0.849 | 0.863 |
| Renewable Energy/Other 15/ | 0.222 | 0.180 | 0.218 | 0.244 | 0.248 | 0.248 | 0.248 | 0.248 | 0.248 | 0.248 | 0.248 | 0.248 | 0.248 |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 3.607 | 3.663 | 3.691 | 3.825 | 3.893 | 3.943 | 4.050 | 4.230 | 4.321 | 4.425 | 4.531 | 4.650 | 4.732 |

**Table 6. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East South Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | |
| Distillate Fuel | 0.574 | 0.587 | 0.574 | 0.593 | 0.610 | 0.623 | 0.639 | 0.658 | 0.676 | 0.695 | 0.716 | 0.735 | 0.751 |
| Kerosene | 0.009 | 0.010 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.008 | 0.008 | 0.008 |
| Jet Fuel 9/ | 0.178 | 0.171 | 0.167 | 0.165 | 0.164 | 0.168 | 0.172 | 0.176 | 0.181 | 0.186 | 0.191 | 0.195 | 0.200 |
| Liquefied Petroleum Gas | 0.092 | 0.084 | 0.088 | 0.085 | 0.084 | 0.084 | 0.084 | 0.084 | 0.085 | 0.085 | 0.086 | 0.087 | 0.088 |
| Motor Gasoline 2/ | 1.144 | 1.159 | 1.187 | 1.211 | 1.233 | 1.259 | 1.289 | 1.320 | 1.353 | 1.384 | 1.416 | 1.446 | 1.474 |
| Petrochemical Feedstocks | 0.106 | 0.091 | 0.097 | 0.100 | 0.101 | 0.101 | 0.103 | 0.105 | 0.108 | 0.111 | 0.115 | 0.118 | 0.121 |
| Residual Fuel | 0.055 | 0.077 | 0.026 | 0.022 | 0.023 | 0.022 | 0.018 | 0.019 | 0.020 | 0.019 | 0.020 | 0.019 | 0.020 |
| Other Petroleum 12/ | 0.299 | 0.312 | 0.327 | 0.316 | 0.319 | 0.316 | 0.315 | 0.319 | 0.319 | 0.325 | 0.328 | 0.331 | 0.334 |
| Petroleum Subtotal | 2.458 | 2.490 | 2.475 | 2.500 | 2.543 | 2.580 | 2.629 | 2.690 | 2.750 | 2.814 | 2.880 | 2.940 | 2.996 |
| Natural Gas | 1.157 | 1.169 | 1.287 | 1.382 | 1.417 | 1.368 | 1.395 | 1.435 | 1.539 | 1.647 | 1.778 | 1.915 | 1.991 |
| Lease and Plant Fuel 6/ | 0.023 | 0.044 | 0.023 | 0.027 | 0.028 | 0.027 | 0.027 | 0.026 | 0.027 | 0.027 | 0.027 | 0.027 | 0.028 |
| Pipeline Natural Gas | 0.083 | 0.079 | 0.080 | 0.087 | 0.091 | 0.092 | 0.095 | 0.097 | 0.102 | 0.106 | 0.110 | 0.112 | 0.114 |
| Natural Gas Subtotal | 1.263 | 1.293 | 1.390 | 1.496 | 1.536 | 1.487 | 1.517 | 1.559 | 1.668 | 1.780 | 1.915 | 2.055 | 2.134 |
| Metallurgical Coal | 0.101 | 0.091 | 0.082 | 0.087 | 0.087 | 0.086 | 0.086 | 0.086 | 0.087 | 0.086 | 0.084 | 0.083 | 0.081 |
| Steam Coal | 2.677 | 2.665 | 2.613 | 2.655 | 2.684 | 2.779 | 2.877 | 2.944 | 2.941 | 2.950 | 2.942 | 2.942 | 2.949 |
| Net Coal Coke Imports | 0.008 | 0.003 | 0.003 | 0.006 | 0.008 | 0.010 | 0.012 | 0.014 | 0.016 | 0.018 | 0.021 | 0.023 | 0.025 |
| Coal Subtotal | 2.786 | 2.760 | 2.698 | 2.748 | 2.779 | 2.875 | 2.975 | 3.044 | 3.044 | 3.054 | 3.047 | 3.048 | 3.055 |
| Nuclear Power | 0.703 | 0.716 | 0.723 | 0.725 | 0.739 | 0.754 | 0.756 | 0.844 | 0.845 | 0.846 | 0.848 | 0.849 | 0.863 |
| Renewable Energy 16/ | 0.454 | 0.406 | 0.444 | 0.477 | 0.486 | 0.489 | 0.491 | 0.495 | 0.500 | 0.505 | 0.512 | 0.518 | 0.524 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 7.664 | 7.665 | 7.730 | 7.945 | 8.083 | 8.185 | 8.369 | 8.632 | 8.806 | 8.999 | 9.202 | 9.410 | 9.572 |
| Energy Use & Related Statistics | | | | | | | | | | | | | |
| Delivered Energy Use | 5.178 | 5.093 | 5.126 | 5.237 | 5.330 | 5.398 | 5.498 | 5.609 | 5.722 | 5.836 | 5.962 | 6.077 | 6.183 |
| Total Energy Use | 7.664 | 7.665 | 7.730 | 7.945 | 8.083 | 8.185 | 8.369 | 8.632 | 8.806 | 8.999 | 9.202 | 9.410 | 9.572 |
| Population (millions) | 16.732 | 16.857 | 16.981 | 17.104 | 17.212 | 17.303 | 17.392 | 17.480 | 17.567 | 17.653 | 17.739 | 17.824 | 17.909 |
| US GDP (billion 1996 dollars) | 9191 | 9215 | 9440 | 9743 | 10074 | 10361 | 10667 | 11017 | 11408 | 11810 | 12258 | 12671 | 13082 |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1578.2 | 1558.6 | 1536.2 | 1567.9 | 1597.2 | 1623.7 | 1662.3 | 1699.7 | 1734.5 | 1765.8 | 1800.5 | 1832.6 | 1862.1 |

**Table 6. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East South Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | | |
| Distillate Fuel | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | -3.4% |
| Kerosene | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | -2.0% |
| Liquefied Petroleum Gas | 0.032 | 0.032 | 0.032 | 0.032 | 0.031 | 0.031 | 0.031 | 0.031 | 0.031 | 0.032 | 0.032 | 0.032 | 0.032 | -0.8% |
| Petroleum Subtotal | 0.040 | 0.040 | 0.039 | 0.039 | 0.039 | 0.038 | 0.038 | 0.038 | 0.038 | 0.038 | 0.038 | 0.038 | 0.037 | -1.1% |
| Natural Gas | 0.210 | 0.210 | 0.210 | 0.211 | 0.210 | 0.210 | 0.211 | 0.211 | 0.210 | 0.210 | 0.210 | 0.211 | 0.212 | 0.4% |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.3% |
| Renewable Energy 1/ | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.022 | 0.022 | 0.023 | 0.022 | 0.1% |
| Electricity | 0.405 | 0.408 | 0.413 | 0.417 | 0.420 | 0.424 | 0.428 | 0.433 | 0.435 | 0.439 | 0.444 | 0.450 | 0.454 | 1.2% |
| Delivered Energy | 0.679 | 0.682 | 0.686 | 0.691 | 0.692 | 0.696 | 0.700 | 0.705 | 0.707 | 0.711 | 0.716 | 0.723 | 0.726 | 0.7% |
| Electricity Related Losses | 1.015 | 1.014 | 0.994 | 0.990 | 0.975 | 0.962 | 0.954 | 0.956 | 0.952 | 0.936 | 0.925 | 0.935 | 0.915 | 0.5% |
| Total | 1.693 | 1.695 | 1.680 | 1.681 | 1.667 | 1.657 | 1.654 | 1.661 | 1.659 | 1.647 | 1.640 | 1.657 | 1.641 | 0.6% |
| Commercial | | | | | | | | | | | | | | |
| Distillate Fuel | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 1.6% |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -2.7% |
| Kerosene | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | -0.9% |
| Liquefied Petroleum Gas | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.4% |
| Motor Gasoline 2/ | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | -1.2% |
| Petroleum Subtotal | 0.023 | 0.023 | 0.023 | 0.023 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.8% |
| Natural Gas | 0.321 | 0.325 | 0.330 | 0.334 | 0.339 | 0.344 | 0.348 | 0.351 | 0.354 | 0.357 | 0.359 | 0.362 | 0.365 | 1.3% |
| Coal | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 1.1% |
| Renewable Energy 3/ | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.0% |
| Electricity | 0.478 | 0.490 | 0.501 | 0.513 | 0.524 | 0.536 | 0.547 | 0.558 | 0.569 | 0.579 | 0.588 | 0.597 | 0.605 | 2.3% |
| Delivered Energy | 0.834 | 0.850 | 0.867 | 0.883 | 0.899 | 0.915 | 0.932 | 0.946 | 0.960 | 0.972 | 0.984 | 0.996 | 1.006 | 1.8% |
| Electricity Related Losses | 1.199 | 1.215 | 1.208 | 1.216 | 1.217 | 1.216 | 1.221 | 1.233 | 1.244 | 1.232 | 1.225 | 1.241 | 1.220 | 1.6% |
| Total | 2.032 | 2.065 | 2.075 | 2.099 | 2.116 | 2.132 | 2.153 | 2.179 | 2.203 | 2.204 | 2.210 | 2.236 | 2.226 | 1.7% |
| Industrial 4/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.098 | 0.099 | 0.100 | 0.101 | 0.102 | 0.103 | 0.104 | 0.106 | 0.107 | 0.109 | 0.110 | 0.111 | 0.113 | 1.1% |
| Liquefied Petroleum Gas | 0.045 | 0.046 | 0.046 | 0.047 | 0.048 | 0.048 | 0.049 | 0.050 | 0.051 | 0.052 | 0.052 | 0.053 | 0.054 | 1.7% |
| Petrochemical Feedstocks | 0.123 | 0.125 | 0.127 | 0.128 | 0.130 | 0.132 | 0.134 | 0.136 | 0.138 | 0.140 | 0.142 | 0.145 | 0.147 | 2.0% |
| Residual Fuel | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | -1.1% |
| Motor Gasoline 2/ | 0.015 | 0.015 | 0.015 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 | 0.017 | 1.0% |
| Other Petroleum 5/ | 0.320 | 0.324 | 0.324 | 0.327 | 0.330 | 0.331 | 0.335 | 0.338 | 0.340 | 0.343 | 0.345 | 0.348 | 0.351 | 0.7% |
| Petroleum Subtotal | 0.605 | 0.613 | 0.617 | 0.622 | 0.629 | 0.634 | 0.643 | 0.650 | 0.656 | 0.664 | 0.670 | 0.678 | 0.685 | 1.1% |
| Natural Gas | 0.602 | 0.609 | 0.616 | 0.621 | 0.627 | 0.636 | 0.646 | 0.653 | 0.663 | 0.673 | 0.682 | 0.694 | 0.704 | 1.6% |
| Lease and Plant Fuel 6/ | 0.029 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.029 | 0.029 | 0.029 | 0.029 | -1.8% |
| Natural Gas Subtotal | 0.632 | 0.638 | 0.646 | 0.650 | 0.657 | 0.666 | 0.676 | 0.683 | 0.693 | 0.702 | 0.711 | 0.723 | 0.732 | 1.4% |
| Metallurgical Coal | 0.080 | 0.078 | 0.077 | 0.075 | 0.074 | 0.073 | 0.071 | 0.070 | 0.069 | 0.067 | 0.066 | 0.065 | 0.064 | -1.5% |
| Steam Coal | 0.187 | 0.187 | 0.188 | 0.188 | 0.189 | 0.189 | 0.190 | 0.191 | 0.192 | 0.192 | 0.193 | 0.193 | 0.194 | 0.3% |
| Net Coal Coke Imports | 0.026 | 0.028 | 0.029 | 0.029 | 0.030 | 0.031 | 0.033 | 0.033 | 0.034 | 0.035 | 0.036 | 0.038 | 0.039 | 10.6% |
| Coal Subtotal | 0.293 | 0.293 | 0.293 | 0.293 | 0.293 | 0.293 | 0.294 | 0.294 | 0.294 | 0.295 | 0.296 | 0.296 | 0.296 | 0.3% |
| Renewable Energy 7/ | 0.255 | 0.261 | 0.266 | 0.271 | 0.276 | 0.281 | 0.287 | 0.292 | 0.297 | 0.303 | 0.309 | 0.316 | 0.321 | 2.0% |
| Electricity | 0.477 | 0.486 | 0.492 | 0.498 | 0.505 | 0.513 | 0.522 | 0.529 | 0.537 | 0.546 | 0.555 | 0.565 | 0.573 | 1.6% |
| Delivered Energy | 2.262 | 2.291 | 2.314 | 2.334 | 2.360 | 2.388 | 2.422 | 2.449 | 2.478 | 2.510 | 2.541 | 2.577 | 2.608 | 1.3% |
| Electricity Related Losses | 1.197 | 1.206 | 1.187 | 1.182 | 1.173 | 1.165 | 1.165 | 1.170 | 1.174 | 1.163 | 1.156 | 1.173 | 1.154 | 1.0% |

**Table 6. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East South Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 3.459 | 3.497 | 3.501 | 3.516 | 3.534 | 3.553 | 3.587 | 3.619 | 3.652 | 3.674 | 3.697 | 3.750 | 3.762 | 1.2% |
| | | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.647 | 0.659 | 0.669 | 0.677 | 0.688 | 0.698 | 0.709 | 0.719 | 0.730 | 0.742 | 0.755 | 0.770 | 0.782 | 2.1% |
| Jet Fuel 9/ | 0.206 | 0.211 | 0.216 | 0.222 | 0.227 | 0.232 | 0.238 | 0.243 | 0.248 | 0.253 | 0.258 | 0.263 | 0.268 | 1.9% |
| Motor Gasoline 2/ | 1.484 | 1.507 | 1.529 | 1.550 | 1.569 | 1.589 | 1.610 | 1.628 | 1.644 | 1.663 | 1.683 | 1.706 | 1.727 | 1.7% |
| Residual Fuel | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | -0.1% |
| Liquefied Petroleum Gas | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 6.5% |
| Other Petroleum 10/ | 0.020 | 0.020 | 0.021 | 0.021 | 0.021 | 0.022 | 0.022 | 0.022 | 0.022 | 0.023 | 0.023 | 0.023 | 0.023 | 1.2% |
| Petroleum Subtotal | 2.374 | 2.415 | 2.452 | 2.487 | 2.522 | 2.558 | 2.598 | 2.630 | 2.662 | 2.699 | 2.738 | 2.781 | 2.820 | 1.8% |
| Pipeline Fuel Natural Gas | 0.115 | 0.117 | 0.118 | 0.119 | 0.119 | 0.121 | 0.123 | 0.125 | 0.124 | 0.124 | 0.123 | 0.125 | 0.126 | 2.0% |
| Compressed Natural Gas | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 11.2% |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 8.7% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 2.5% |
| Delivered Energy | 2.501 | 2.545 | 2.584 | 2.620 | 2.655 | 2.694 | 2.735 | 2.770 | 2.803 | 2.839 | 2.877 | 2.923 | 2.964 | 1.8% |
| Electricity Related Losses | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 1.8% |
| Total | 2.515 | 2.560 | 2.599 | 2.635 | 2.671 | 2.709 | 2.751 | 2.786 | 2.819 | 2.854 | 2.893 | 2.939 | 2.980 | 1.8% |
| | | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | | |
| Distillate Fuel | 0.761 | 0.774 | 0.785 | 0.795 | 0.806 | 0.817 | 0.830 | 0.841 | 0.853 | 0.867 | 0.880 | 0.896 | 0.910 | 1.9% |
| Kerosene | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | -1.3% |
| Jet Fuel 9/ | 0.206 | 0.211 | 0.216 | 0.222 | 0.227 | 0.232 | 0.238 | 0.243 | 0.248 | 0.253 | 0.258 | 0.263 | 0.268 | 1.9% |
| Liquefied Petroleum Gas | 0.089 | 0.090 | 0.090 | 0.091 | 0.092 | 0.092 | 0.093 | 0.094 | 0.095 | 0.096 | 0.097 | 0.098 | 0.099 | 0.7% |
| Motor Gasoline 2/ | 1.500 | 1.524 | 1.546 | 1.566 | 1.585 | 1.606 | 1.628 | 1.645 | 1.662 | 1.680 | 1.701 | 1.725 | 1.745 | 1.7% |
| Petrochemical Feedstocks | 0.123 | 0.125 | 0.127 | 0.128 | 0.130 | 0.132 | 0.134 | 0.136 | 0.138 | 0.140 | 0.142 | 0.145 | 0.147 | 2.0% |
| Residual Fuel | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 0.018 | -0.4% |
| Other Petroleum 12/ | 0.337 | 0.341 | 0.342 | 0.345 | 0.348 | 0.350 | 0.354 | 0.357 | 0.360 | 0.363 | 0.365 | 0.368 | 0.371 | 0.7% |
| Petroleum Subtotal | 3.042 | 3.090 | 3.132 | 3.172 | 3.214 | 3.255 | 3.303 | 3.342 | 3.381 | 3.424 | 3.469 | 3.520 | 3.566 | 1.6% |
| Natural Gas | 1.139 | 1.150 | 1.163 | 1.173 | 1.183 | 1.198 | 1.213 | 1.224 | 1.236 | 1.249 | 1.260 | 1.276 | 1.289 | 1.3% |
| Lease and Plant Fuel 6/ | 0.029 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.029 | 0.029 | 0.029 | 0.029 | -1.8% |
| Pipeline Natural Gas | 0.115 | 0.117 | 0.118 | 0.119 | 0.119 | 0.121 | 0.123 | 0.125 | 0.124 | 0.124 | 0.123 | 0.125 | 0.126 | 2.0% |
| Natural Gas Subtotal | 1.283 | 1.297 | 1.311 | 1.322 | 1.332 | 1.348 | 1.365 | 1.378 | 1.390 | 1.401 | 1.412 | 1.430 | 1.444 | 1.3% |
| Metallurgical Coal | 0.080 | 0.078 | 0.077 | 0.075 | 0.074 | 0.073 | 0.071 | 0.070 | 0.069 | 0.067 | 0.066 | 0.065 | 0.064 | -1.5% |
| Steam Coal | 0.196 | 0.197 | 0.198 | 0.198 | 0.199 | 0.199 | 0.200 | 0.201 | 0.202 | 0.203 | 0.204 | 0.204 | 0.204 | 0.3% |
| Net Coal Coke Imports | 0.026 | 0.028 | 0.029 | 0.029 | 0.030 | 0.031 | 0.033 | 0.033 | 0.034 | 0.035 | 0.036 | 0.038 | 0.039 | 10.6% |
| Coal Subtotal | 0.302 | 0.303 | 0.303 | 0.303 | 0.303 | 0.303 | 0.304 | 0.304 | 0.305 | 0.305 | 0.306 | 0.307 | 0.307 | 0.3% |
| Renewable Energy 13/ | 0.281 | 0.287 | 0.292 | 0.297 | 0.302 | 0.308 | 0.314 | 0.319 | 0.324 | 0.330 | 0.335 | 0.342 | 0.348 | 1.8% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 1.366 | 1.390 | 1.413 | 1.434 | 1.456 | 1.479 | 1.504 | 1.527 | 1.548 | 1.572 | 1.595 | 1.620 | 1.640 | 1.7% |
| Delivered Energy | 6.275 | 6.367 | 6.450 | 6.527 | 6.607 | 6.693 | 6.789 | 6.871 | 6.947 | 7.032 | 7.118 | 7.218 | 7.304 | 1.5% |
| Electricity Related Losses | 3.425 | 3.450 | 3.404 | 3.403 | 3.381 | 3.358 | 3.355 | 3.374 | 3.386 | 3.347 | 3.322 | 3.365 | 3.305 | 1.0% |
| Total | 9.699 | 9.817 | 9.854 | 9.931 | 9.987 | 10.050 | 10.144 | 10.245 | 10.333 | 10.379 | 10.441 | 10.583 | 10.609 | 1.4% |
| | | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | -3.9% |
| Residual Fuel | 0.003 | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.003 | -12.1% |
| Petroleum Subtotal | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | -9.9% |
| Natural Gas | 0.903 | 0.981 | 0.961 | 0.980 | 0.980 | 1.015 | 1.033 | 1.072 | 1.105 | 1.092 | 1.090 | 1.157 | 1.138 | 7.0% |
| Steam Coal | 2.760 | 2.719 | 2.717 | 2.717 | 2.716 | 2.680 | 2.684 | 2.685 | 2.686 | 2.684 | 2.684 | 2.684 | 2.664 | 0.3% |
| Nuclear Power | 0.875 | 0.886 | 0.887 | 0.888 | 0.889 | 0.889 | 0.890 | 0.891 | 0.891 | 0.891 | 0.891 | 0.891 | 0.891 | 0.9% |
| Renewable Energy/Other 15/ | 0.248 | 0.248 | 0.247 | 0.247 | 0.247 | 0.247 | 0.247 | 0.247 | 0.247 | 0.247 | 0.247 | 0.247 | 0.247 | 1.3% |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Total | 4.791 | 4.840 | 4.817 | 4.838 | 4.837 | 4.837 | 4.858 | 4.901 | 4.935 | 4.919 | 4.918 | 4.984 | 4.945 | 1.3% |

**Table 6. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East South Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | | |
| Distillate Fuel | 0.764 | 0.777 | 0.788 | 0.798 | 0.809 | 0.820 | 0.833 | 0.844 | 0.856 | 0.869 | 0.883 | 0.899 | 0.913 | 1.9% |
| Kerosene | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.007 | 0.007 | -1.3% |
| Jet Fuel 9/ | 0.206 | 0.211 | 0.216 | 0.222 | 0.227 | 0.232 | 0.238 | 0.243 | 0.248 | 0.253 | 0.258 | 0.263 | 0.268 | 1.9% |
| Liquefied Petroleum Gas | 0.089 | 0.090 | 0.090 | 0.091 | 0.092 | 0.092 | 0.093 | 0.094 | 0.095 | 0.096 | 0.097 | 0.098 | 0.099 | 0.7% |
| Motor Gasoline 2/ | 1.500 | 1.524 | 1.546 | 1.566 | 1.585 | 1.606 | 1.628 | 1.645 | 1.662 | 1.680 | 1.701 | 1.725 | 1.745 | 1.7% |
| Petrochemical Feedstocks | 0.123 | 0.125 | 0.127 | 0.128 | 0.130 | 0.132 | 0.134 | 0.136 | 0.138 | 0.140 | 0.142 | 0.145 | 0.147 | 2.0% |
| Residual Fuel | 0.020 | 0.020 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.020 | 0.019 | 0.020 | 0.020 | 0.020 | 0.020 | -5.4% |
| Other Petroleum 12/ | 0.337 | 0.341 | 0.342 | 0.345 | 0.348 | 0.350 | 0.354 | 0.357 | 0.360 | 0.363 | 0.365 | 0.368 | 0.371 | 0.7% |
| Petroleum Subtotal | 3.047 | 3.096 | 3.136 | 3.177 | 3.218 | 3.260 | 3.307 | 3.348 | 3.385 | 3.429 | 3.474 | 3.525 | 3.571 | 1.5% |
| Natural Gas | 2.042 | 2.131 | 2.124 | 2.153 | 2.163 | 2.212 | 2.246 | 2.296 | 2.341 | 2.341 | 2.351 | 2.433 | 2.427 | 3.1% |
| Lease and Plant Fuel 6/ | 0.029 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.029 | 0.029 | 0.029 | 0.029 | -1.8% |
| Pipeline Natural Gas | 0.115 | 0.117 | 0.118 | 0.119 | 0.119 | 0.121 | 0.123 | 0.125 | 0.124 | 0.124 | 0.123 | 0.125 | 0.126 | 2.0% |
| Natural Gas Subtotal | 2.186 | 2.278 | 2.272 | 2.302 | 2.312 | 2.362 | 2.398 | 2.451 | 2.495 | 2.493 | 2.503 | 2.587 | 2.582 | 2.9% |
| Metallurgical Coal | 0.080 | 0.078 | 0.077 | 0.075 | 0.074 | 0.073 | 0.071 | 0.070 | 0.069 | 0.067 | 0.066 | 0.065 | 0.064 | -1.5% |
| Steam Coal | 2.956 | 2.916 | 2.914 | 2.915 | 2.914 | 2.880 | 2.884 | 2.886 | 2.888 | 2.886 | 2.888 | 2.888 | 2.868 | 0.3% |
| Net Coal Coke Imports | 0.026 | 0.028 | 0.029 | 0.029 | 0.030 | 0.031 | 0.033 | 0.033 | 0.034 | 0.035 | 0.036 | 0.038 | 0.039 | 10.6% |
| Coal Subtotal | 3.062 | 3.022 | 3.020 | 3.020 | 3.019 | 2.984 | 2.988 | 2.989 | 2.991 | 2.989 | 2.990 | 2.990 | 2.970 | 0.3% |
| Nuclear Power | 0.875 | 0.886 | 0.887 | 0.888 | 0.889 | 0.889 | 0.890 | 0.891 | 0.891 | 0.891 | 0.891 | 0.891 | 0.891 | 0.9% |
| Renewable Energy 16/ | 0.529 | 0.535 | 0.540 | 0.544 | 0.549 | 0.555 | 0.561 | 0.566 | 0.571 | 0.577 | 0.582 | 0.589 | 0.595 | 1.6% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Total | 9.699 | 9.817 | 9.854 | 9.931 | 9.987 | 10.050 | 10.144 | 10.245 | 10.333 | 10.379 | 10.441 | 10.583 | 10.609 | 1.4% |
| Energy Use & Related Statistics | | | | | | | | | | | | | | |
| Delivered Energy Use | 6.275 | 6.367 | 6.450 | 6.527 | 6.607 | 6.693 | 6.789 | 6.871 | 6.947 | 7.032 | 7.118 | 7.218 | 7.304 | 1.5% |
| Total Energy Use | 9.699 | 9.817 | 9.854 | 9.931 | 9.987 | 10.050 | 10.144 | 10.245 | 10.333 | 10.379 | 10.441 | 10.583 | 10.609 | 1.4% |
| Population (millions) | 17.995 | 18.082 | 18.168 | 18.255 | 18.341 | 18.428 | 18.514 | 18.600 | 18.687 | 18.774 | 18.863 | 18.952 | 19.042 | 0.5% |
| US GDP (billion 1996 dollars) | 13480 | 13893 | 14288 | 14681 | 15101 | 15540 | 16013 | 16450 | 16888 | 17363 | 17858 | 18389 | 18917 | 3.0% |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1889.2 | 1915.7 | 1944.2 | 1970.2 | 1996.8 | 2024.6 | 2055.5 | 2082.5 | 2108.3 | 2139.7 | 2170.8 | 2204.3 | 2236.9 | 1.5% |

**Table 6. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**East South Central**

1/ Includes wood used for residential heating. See Table A18 estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.
2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.
3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.
4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.
5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.
6/ Represents natural gas used in the field gathering and processing plant machinery.
7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.
8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.
9/ Includes only kerosene type.
10/ Includes aviation gasoline and lubricants.
11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.
13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.
16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.
Sources: 2000 and 2001 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). 2000 and 2001 population and gross domestic product: Global Insight macroeconomic model CTL0802. 2000 and 2001 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2001, DOE/EIA-0573(2001) (Washington, DC, December 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 7. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West South Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | |
| Distillate Fuel | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 |
| Kerosene | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Liquefied Petroleum Gas | 0.029 | 0.027 | 0.028 | 0.026 | 0.025 | 0.025 | 0.025 | 0.024 | 0.024 | 0.024 | 0.024 | 0.023 | 0.023 |
| Petroleum Subtotal | 0.036 | 0.035 | 0.036 | 0.034 | 0.033 | 0.033 | 0.033 | 0.033 | 0.032 | 0.032 | 0.032 | 0.031 | 0.031 |
| Natural Gas | 0.415 | 0.412 | 0.421 | 0.431 | 0.438 | 0.440 | 0.444 | 0.445 | 0.447 | 0.446 | 0.447 | 0.448 | 0.451 |
| Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Renewable Energy 1/ | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 |
| Electricity | 0.608 | 0.611 | 0.626 | 0.653 | 0.670 | 0.684 | 0.699 | 0.711 | 0.729 | 0.739 | 0.760 | 0.775 | 0.794 |
| Delivered Energy | 1.078 | 1.077 | 1.102 | 1.137 | 1.161 | 1.177 | 1.195 | 1.209 | 1.229 | 1.238 | 1.259 | 1.275 | 1.297 |
| Electricity Related Losses | 1.337 | 1.284 | 1.171 | 1.193 | 1.226 | 1.238 | 1.250 | 1.242 | 1.257 | 1.254 | 1.240 | 1.239 | 1.243 |
| Total | 2.415 | 2.361 | 2.273 | 2.330 | 2.388 | 2.415 | 2.445 | 2.451 | 2.486 | 2.492 | 2.499 | 2.514 | 2.540 |
| Commercial | | | | | | | | | | | | | |
| Distillate Fuel | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Kerosene | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquefied Petroleum Gas | 0.006 | 0.006 | 0.008 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 |
| Motor Gasoline 2/ | 0.002 | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Petroleum Subtotal | 0.016 | 0.017 | 0.019 | 0.017 | 0.017 | 0.018 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 |
| Natural Gas | 0.300 | 0.311 | 0.312 | 0.321 | 0.333 | 0.339 | 0.344 | 0.348 | 0.351 | 0.353 | 0.355 | 0.357 | 0.359 |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Renewable Energy 3/ | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Electricity | 0.483 | 0.487 | 0.497 | 0.510 | 0.524 | 0.537 | 0.549 | 0.557 | 0.568 | 0.576 | 0.591 | 0.605 | 0.620 |
| Delivered Energy | 0.802 | 0.819 | 0.832 | 0.852 | 0.878 | 0.898 | 0.915 | 0.927 | 0.941 | 0.951 | 0.968 | 0.985 | 1.002 |
| Electricity Related Losses | 1.063 | 1.024 | 0.929 | 0.932 | 0.960 | 0.972 | 0.982 | 0.973 | 0.979 | 0.977 | 0.965 | 0.968 | 0.972 |
| Total | 1.865 | 1.843 | 1.761 | 1.784 | 1.838 | 1.870 | 1.897 | 1.900 | 1.920 | 1.927 | 1.933 | 1.953 | 1.974 |
| Industrial 4/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.225 | 0.229 | 0.216 | 0.219 | 0.221 | 0.223 | 0.227 | 0.232 | 0.237 | 0.241 | 0.246 | 0.250 | 0.254 |
| Liquefied Petroleum Gas | 1.896 | 1.728 | 1.833 | 1.862 | 1.859 | 1.850 | 1.870 | 1.904 | 1.936 | 1.991 | 2.054 | 2.115 | 2.169 |
| Petrochemical Feedstocks | 0.611 | 0.526 | 0.559 | 0.578 | 0.585 | 0.585 | 0.593 | 0.608 | 0.624 | 0.641 | 0.662 | 0.681 | 0.698 |
| Residual Fuel | 0.014 | 0.014 | 0.011 | 0.012 | 0.010 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 |
| Motor Gasoline 2/ | 0.022 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.024 | 0.024 | 0.024 | 0.025 | 0.025 |
| Other Petroleum 5/ | 1.146 | 1.157 | 1.171 | 1.180 | 1.213 | 1.220 | 1.237 | 1.258 | 1.287 | 1.299 | 1.288 | 1.267 | 1.255 |
| Petroleum Subtotal | 3.915 | 3.676 | 3.813 | 3.873 | 3.912 | 3.912 | 3.961 | 4.036 | 4.119 | 4.208 | 4.286 | 4.350 | 4.414 |
| Natural Gas | 2.968 | 2.734 | 2.890 | 2.918 | 2.835 | 2.850 | 2.923 | 2.963 | 2.986 | 3.038 | 3.127 | 3.216 | 3.271 |
| Lease and Plant Fuel 6/ | 0.570 | 0.577 | 0.614 | 0.634 | 0.630 | 0.622 | 0.630 | 0.630 | 0.644 | 0.653 | 0.658 | 0.672 | 0.680 |
| Natural Gas Subtotal | 3.538 | 3.311 | 3.503 | 3.551 | 3.465 | 3.473 | 3.553 | 3.593 | 3.630 | 3.690 | 3.785 | 3.887 | 3.952 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 0.093 | 0.091 | 0.087 | 0.088 | 0.089 | 0.089 | 0.089 | 0.090 | 0.091 | 0.091 | 0.092 | 0.093 | 0.093 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 0.093 | 0.091 | 0.087 | 0.088 | 0.089 | 0.089 | 0.089 | 0.090 | 0.091 | 0.091 | 0.092 | 0.093 | 0.093 |
| Renewable Energy 7/ | 0.201 | 0.198 | 0.197 | 0.203 | 0.208 | 0.212 | 0.216 | 0.221 | 0.226 | 0.232 | 0.240 | 0.248 | 0.254 |
| Electricity | 0.555 | 0.524 | 0.491 | 0.515 | 0.527 | 0.532 | 0.547 | 0.564 | 0.582 | 0.593 | 0.609 | 0.624 | 0.639 |

**Table 7. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West South Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Delivered Energy | 8.303 | 7.800 | 8.092 | 8.231 | 8.200 | 8.218 | 8.366 | 8.503 | 8.648 | 8.816 | 9.013 | 9.202 | 9.353 |
| Electricity Related Losses | 1.221 | 1.102 | 0.918 | 0.941 | 0.964 | 0.963 | 0.978 | 0.985 | 1.003 | 1.006 | 0.994 | 0.999 | 1.001 |
| Total | 9.524 | 8.902 | 9.010 | 9.172 | 9.164 | 9.181 | 9.344 | 9.489 | 9.651 | 9.822 | 10.008 | 10.201 | 10.354 |
| | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.852 | 0.868 | 0.863 | 0.899 | 0.933 | 0.959 | 0.992 | 1.028 | 1.062 | 1.100 | 1.141 | 1.181 | 1.214 |
| Jet Fuel 9/ | 0.880 | 0.842 | 0.827 | 0.822 | 0.821 | 0.841 | 0.868 | 0.894 | 0.923 | 0.955 | 0.983 | 1.013 | 1.044 |
| Motor Gasoline 2/ | 1.927 | 1.953 | 2.000 | 2.044 | 2.088 | 2.143 | 2.204 | 2.270 | 2.338 | 2.407 | 2.477 | 2.543 | 2.607 |
| Residual Fuel | 0.317 | 0.299 | 0.281 | 0.291 | 0.292 | 0.293 | 0.295 | 0.296 | 0.297 | 0.299 | 0.300 | 0.301 | 0.303 |
| Liquefied Petroleum Gas | 0.002 | 0.002 | 0.002 | 0.003 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.007 |
| Other Petroleum 10/ | 0.034 | 0.036 | 0.037 | 0.038 | 0.038 | 0.038 | 0.038 | 0.039 | 0.039 | 0.040 | 0.041 | 0.041 | 0.042 |
| Petroleum Subtotal | 4.011 | 3.999 | 4.010 | 4.096 | 4.175 | 4.278 | 4.402 | 4.531 | 4.666 | 4.806 | 4.948 | 5.086 | 5.216 |
| Pipeline Fuel Natural Gas | 0.141 | 0.134 | 0.132 | 0.145 | 0.148 | 0.150 | 0.156 | 0.160 | 0.168 | 0.175 | 0.181 | 0.186 | 0.189 |
| Compressed Natural Gas | 0.001 | 0.001 | 0.002 | 0.002 | 0.003 | 0.004 | 0.004 | 0.005 | 0.006 | 0.006 | 0.007 | 0.008 | 0.008 |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 |
| Delivered Energy | 4.161 | 4.143 | 4.152 | 4.252 | 4.336 | 4.442 | 4.571 | 4.705 | 4.849 | 4.997 | 5.148 | 5.291 | 5.425 |
| Electricity Related Losses | 0.018 | 0.017 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 0.017 | 0.018 | 0.018 |
| Total | 4.179 | 4.160 | 4.168 | 4.268 | 4.352 | 4.458 | 4.588 | 4.722 | 4.867 | 5.015 | 5.165 | 5.308 | 5.443 |
| | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | |
| Distillate Fuel | 1.090 | 1.111 | 1.094 | 1.133 | 1.170 | 1.198 | 1.234 | 1.276 | 1.316 | 1.358 | 1.404 | 1.447 | 1.484 |
| Kerosene | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Jet Fuel 9/ | 0.880 | 0.842 | 0.827 | 0.822 | 0.821 | 0.841 | 0.868 | 0.894 | 0.923 | 0.955 | 0.983 | 1.013 | 1.044 |
| Liquefied Petroleum Gas | 1.932 | 1.763 | 1.872 | 1.897 | 1.895 | 1.887 | 1.906 | 1.940 | 1.972 | 2.028 | 2.091 | 2.152 | 2.207 |
| Motor Gasoline 2/ | 1.952 | 1.978 | 2.026 | 2.068 | 2.112 | 2.167 | 2.229 | 2.295 | 2.364 | 2.432 | 2.503 | 2.570 | 2.633 |
| Petrochemical Feedstocks | 0.611 | 0.526 | 0.559 | 0.578 | 0.585 | 0.585 | 0.593 | 0.608 | 0.624 | 0.641 | 0.662 | 0.681 | 0.698 |
| Residual Fuel | 0.332 | 0.312 | 0.292 | 0.303 | 0.303 | 0.304 | 0.305 | 0.307 | 0.309 | 0.310 | 0.312 | 0.313 | 0.315 |
| Other Petroleum 12/ | 1.179 | 1.191 | 1.206 | 1.216 | 1.249 | 1.256 | 1.274 | 1.295 | 1.324 | 1.337 | 1.327 | 1.306 | 1.295 |
| Petroleum Subtotal | 7.979 | 7.727 | 7.878 | 8.019 | 8.137 | 8.241 | 8.413 | 8.617 | 8.835 | 9.064 | 9.284 | 9.486 | 9.680 |
| Natural Gas | 3.683 | 3.458 | 3.624 | 3.673 | 3.609 | 3.632 | 3.715 | 3.760 | 3.789 | 3.843 | 3.936 | 4.028 | 4.090 |
| Lease and Plant Fuel 6/ | 0.570 | 0.577 | 0.614 | 0.634 | 0.630 | 0.622 | 0.630 | 0.630 | 0.644 | 0.653 | 0.658 | 0.672 | 0.680 |
| Pipeline Natural Gas | 0.141 | 0.134 | 0.132 | 0.145 | 0.148 | 0.150 | 0.156 | 0.160 | 0.168 | 0.175 | 0.181 | 0.186 | 0.189 |
| Natural Gas Subtotal | 4.395 | 4.169 | 4.370 | 4.451 | 4.387 | 4.405 | 4.500 | 4.550 | 4.601 | 4.670 | 4.775 | 4.886 | 4.959 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 0.094 | 0.092 | 0.088 | 0.090 | 0.090 | 0.090 | 0.091 | 0.091 | 0.092 | 0.093 | 0.094 | 0.094 | 0.095 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 0.094 | 0.092 | 0.088 | 0.090 | 0.090 | 0.090 | 0.091 | 0.091 | 0.092 | 0.093 | 0.094 | 0.094 | 0.095 |
| Renewable Energy 13/ | 0.223 | 0.220 | 0.219 | 0.226 | 0.231 | 0.235 | 0.239 | 0.244 | 0.249 | 0.256 | 0.264 | 0.271 | 0.278 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 1.654 | 1.631 | 1.623 | 1.686 | 1.730 | 1.763 | 1.805 | 1.843 | 1.890 | 1.918 | 1.971 | 2.016 | 2.065 |
| Delivered Energy | 14.345 | 13.838 | 14.178 | 14.473 | 14.575 | 14.734 | 15.047 | 15.344 | 15.667 | 16.001 | 16.388 | 16.752 | 17.077 |
| Electricity Related Losses | 3.639 | 3.428 | 3.034 | 3.082 | 3.168 | 3.190 | 3.227 | 3.218 | 3.257 | 3.255 | 3.217 | 3.224 | 3.234 |
| Total | 17.984 | 17.266 | 17.212 | 17.554 | 17.742 | 17.924 | 18.274 | 18.563 | 18.924 | 19.256 | 19.605 | 19.977 | 20.311 |
| | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.040 | 0.020 | 0.020 | 0.019 | 0.020 | 0.020 | 0.020 | 0.020 | 0.021 | 0.020 | 0.021 | 0.020 | 0.020 |
| Residual Fuel | 0.018 | 0.066 | 0.004 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.002 | 0.001 | 0.001 | 0.001 |
| Petroleum Subtotal | 0.058 | 0.085 | 0.023 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.021 | 0.022 | 0.021 | 0.021 | 0.021 |
| Natural Gas | 2.142 | 1.928 | 1.561 | 1.649 | 1.688 | 1.668 | 1.696 | 1.706 | 1.831 | 1.850 | 1.826 | 1.876 | 1.930 |
| Steam Coal | 2.343 | 2.270 | 2.262 | 2.269 | 2.350 | 2.408 | 2.452 | 2.465 | 2.408 | 2.409 | 2.447 | 2.447 | 2.452 |
| Nuclear Power | 0.683 | 0.704 | 0.710 | 0.711 | 0.715 | 0.729 | 0.730 | 0.733 | 0.748 | 0.751 | 0.751 | 0.752 | 0.752 |
| Renewable Energy/Other 15/ | 0.067 | 0.072 | 0.101 | 0.120 | 0.125 | 0.129 | 0.134 | 0.137 | 0.139 | 0.142 | 0.143 | 0.143 | 0.144 |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Table 7. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West South Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 5.293 | 5.059 | 4.657 | 4.768 | 4.897 | 4.952 | 5.031 | 5.061 | 5.147 | 5.173 | 5.188 | 5.240 | 5.299 |
| Total Energy Consumption | | | | | | | | | | | | | |
| Distillate Fuel | 1.130 | 1.131 | 1.113 | 1.152 | 1.189 | 1.218 | 1.254 | 1.295 | 1.336 | 1.378 | 1.424 | 1.467 | 1.505 |
| Kerosene | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Jet Fuel 9/ | 0.880 | 0.842 | 0.827 | 0.822 | 0.821 | 0.841 | 0.868 | 0.894 | 0.923 | 0.955 | 0.983 | 1.013 | 1.044 |
| Liquefied Petroleum Gas | 1.932 | 1.763 | 1.872 | 1.897 | 1.895 | 1.887 | 1.906 | 1.940 | 1.972 | 2.028 | 2.091 | 2.152 | 2.207 |
| Motor Gasoline 2/ | 1.952 | 1.978 | 2.026 | 2.068 | 2.112 | 2.167 | 2.229 | 2.295 | 2.364 | 2.432 | 2.503 | 2.570 | 2.633 |
| Petrochemical Feedstocks | 0.611 | 0.526 | 0.559 | 0.578 | 0.585 | 0.585 | 0.593 | 0.608 | 0.624 | 0.641 | 0.662 | 0.681 | 0.698 |
| Residual Fuel | 0.350 | 0.378 | 0.296 | 0.304 | 0.303 | 0.304 | 0.306 | 0.307 | 0.309 | 0.312 | 0.312 | 0.314 | 0.316 |
| Other Petroleum 12/ | 1.179 | 1.191 | 1.206 | 1.216 | 1.249 | 1.256 | 1.274 | 1.295 | 1.324 | 1.337 | 1.327 | 1.306 | 1.295 |
| Petroleum Subtotal | 8.036 | 7.812 | 7.901 | 8.039 | 8.157 | 8.261 | 8.433 | 8.637 | 8.856 | 9.086 | 9.306 | 9.507 | 9.702 |
| Natural Gas | 5.826 | 5.386 | 5.186 | 5.322 | 5.297 | 5.300 | 5.411 | 5.467 | 5.619 | 5.693 | 5.762 | 5.904 | 6.019 |
| Lease and Plant Fuel 6/ | 0.570 | 0.577 | 0.614 | 0.634 | 0.630 | 0.622 | 0.630 | 0.630 | 0.644 | 0.653 | 0.658 | 0.672 | 0.680 |
| Pipeline Natural Gas | 0.141 | 0.134 | 0.132 | 0.145 | 0.148 | 0.150 | 0.156 | 0.160 | 0.168 | 0.175 | 0.181 | 0.186 | 0.189 |
| Natural Gas Subtotal | 6.537 | 6.097 | 5.931 | 6.100 | 6.075 | 6.073 | 6.196 | 6.256 | 6.431 | 6.521 | 6.601 | 6.762 | 6.888 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 2.437 | 2.362 | 2.350 | 2.359 | 2.440 | 2.498 | 2.542 | 2.557 | 2.500 | 2.501 | 2.541 | 2.541 | 2.546 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 2.437 | 2.362 | 2.350 | 2.359 | 2.440 | 2.498 | 2.542 | 2.557 | 2.500 | 2.501 | 2.541 | 2.541 | 2.546 |
| Nuclear Power | 0.683 | 0.704 | 0.710 | 0.711 | 0.715 | 0.729 | 0.730 | 0.733 | 0.748 | 0.751 | 0.751 | 0.752 | 0.752 |
| Renewable Energy 16/ | 0.290 | 0.291 | 0.320 | 0.345 | 0.355 | 0.363 | 0.373 | 0.380 | 0.388 | 0.397 | 0.407 | 0.415 | 0.422 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 17.984 | 17.266 | 17.213 | 17.555 | 17.742 | 17.924 | 18.274 | 18.563 | 18.924 | 19.256 | 19.605 | 19.977 | 20.311 |
| Energy Use & Related Statistics | | | | | | | | | | | | | |
| Delivered Energy Use | 14.345 | 13.838 | 14.178 | 14.473 | 14.575 | 14.734 | 15.047 | 15.344 | 15.667 | 16.001 | 16.388 | 16.752 | 17.077 |
| Total Energy Use | 17.984 | 17.266 | 17.212 | 17.554 | 17.742 | 17.924 | 18.274 | 18.563 | 18.924 | 19.256 | 19.605 | 19.977 | 20.311 |
| Population (millions) | 30.767 | 31.130 | 31.495 | 31.859 | 32.229 | 32.603 | 32.976 | 33.349 | 33.726 | 34.109 | 34.493 | 34.879 | 35.265 |
| US GDP (billion 1996 dollars) | 9191 | 9215 | 9440 | 9743 | 10074 | 10361 | 10667 | 11017 | 11408 | 11810 | 12258 | 12671 | 13082 |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1578.2 | 1558.6 | 1536.2 | 1567.9 | 1597.2 | 1623.7 | 1662.3 | 1699.7 | 1734.5 | 1765.8 | 1800.5 | 1832.6 | 1862.1 |

**Table 7. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West South Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | | |
| Distillate Fuel | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | -0.5% |
| Kerosene | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.3% |
| Liquefied Petroleum Gas | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.022 | 0.022 | 0.022 | 0.023 | 0.022 | -0.7% |
| Petroleum Subtotal | 0.031 | 0.031 | 0.031 | 0.031 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | -0.7% |
| Natural Gas | 0.452 | 0.455 | 0.459 | 0.464 | 0.467 | 0.472 | 0.478 | 0.485 | 0.489 | 0.494 | 0.501 | 0.509 | 0.516 | 0.9% |
| Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.2% |
| Renewable Energy 1/ | 0.020 | 0.020 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.6% |
| Electricity | 0.803 | 0.819 | 0.833 | 0.849 | 0.860 | 0.874 | 0.888 | 0.902 | 0.912 | 0.924 | 0.938 | 0.955 | 0.970 | 1.9% |
| Delivered Energy | 1.307 | 1.325 | 1.344 | 1.365 | 1.379 | 1.398 | 1.418 | 1.439 | 1.452 | 1.469 | 1.490 | 1.516 | 1.538 | 1.5% |
| Electricity Related Losses | 1.241 | 1.236 | 1.239 | 1.253 | 1.252 | 1.264 | 1.269 | 1.280 | 1.275 | 1.283 | 1.283 | 1.311 | 1.288 | 0.0% |
| Total | 2.548 | 2.561 | 2.583 | 2.619 | 2.631 | 2.662 | 2.686 | 2.719 | 2.726 | 2.752 | 2.772 | 2.827 | 2.825 | 0.8% |
| Commercial | | | | | | | | | | | | | | |
| Distillate Fuel | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.5% |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -9.1% |
| Kerosene | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -1.1% |
| Liquefied Petroleum Gas | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.8% |
| Motor Gasoline 2/ | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | -1.4% |
| Petroleum Subtotal | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.4% |
| Natural Gas | 0.361 | 0.363 | 0.365 | 0.367 | 0.368 | 0.371 | 0.374 | 0.377 | 0.379 | 0.382 | 0.384 | 0.388 | 0.392 | 1.0% |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.5% |
| Renewable Energy 3/ | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.0% |
| Electricity | 0.632 | 0.644 | 0.653 | 0.663 | 0.672 | 0.682 | 0.692 | 0.701 | 0.710 | 0.717 | 0.725 | 0.733 | 0.743 | 1.8% |
| Delivered Energy | 1.015 | 1.029 | 1.041 | 1.052 | 1.063 | 1.075 | 1.089 | 1.100 | 1.111 | 1.121 | 1.132 | 1.143 | 1.157 | 1.5% |
| Electricity Related Losses | 0.976 | 0.971 | 0.972 | 0.978 | 0.978 | 0.986 | 0.989 | 0.994 | 0.992 | 0.996 | 0.992 | 1.006 | 0.986 | -0.2% |
| Total | 1.991 | 2.000 | 2.013 | 2.030 | 2.040 | 2.061 | 2.077 | 2.095 | 2.104 | 2.118 | 2.124 | 2.149 | 2.144 | 0.6% |
| Industrial 4/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.256 | 0.259 | 0.261 | 0.264 | 0.266 | 0.269 | 0.272 | 0.276 | 0.279 | 0.283 | 0.286 | 0.290 | 0.294 | 1.0% |
| Liquefied Petroleum Gas | 2.207 | 2.241 | 2.269 | 2.294 | 2.330 | 2.366 | 2.408 | 2.445 | 2.482 | 2.523 | 2.560 | 2.601 | 2.636 | 1.8% |
| Petrochemical Feedstocks | 0.710 | 0.722 | 0.731 | 0.739 | 0.751 | 0.762 | 0.775 | 0.785 | 0.797 | 0.810 | 0.822 | 0.835 | 0.847 | 2.0% |
| Residual Fuel | 0.012 | 0.012 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | -0.1% |
| Motor Gasoline 2/ | 0.025 | 0.026 | 0.026 | 0.026 | 0.026 | 0.027 | 0.027 | 0.027 | 0.028 | 0.028 | 0.028 | 0.029 | 0.029 | 1.0% |
| Other Petroleum 5/ | 1.259 | 1.268 | 1.256 | 1.265 | 1.275 | 1.273 | 1.277 | 1.273 | 1.268 | 1.267 | 1.262 | 1.262 | 1.261 | 0.4% |
| Petroleum Subtotal | 4.469 | 4.527 | 4.555 | 4.600 | 4.660 | 4.708 | 4.771 | 4.820 | 4.868 | 4.924 | 4.972 | 5.029 | 5.080 | 1.4% |
| Natural Gas | 3.309 | 3.338 | 3.383 | 3.404 | 3.433 | 3.478 | 3.530 | 3.565 | 3.618 | 3.672 | 3.717 | 3.777 | 3.828 | 1.4% |
| Lease and Plant Fuel 6/ | 0.681 | 0.688 | 0.696 | 0.698 | 0.697 | 0.705 | 0.714 | 0.719 | 0.709 | 0.702 | 0.697 | 0.709 | 0.713 | 0.9% |
| Natural Gas Subtotal | 3.990 | 4.026 | 4.079 | 4.102 | 4.130 | 4.183 | 4.244 | 4.285 | 4.327 | 4.373 | 4.414 | 4.486 | 4.541 | 1.3% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 0.094 | 0.094 | 0.095 | 0.095 | 0.095 | 0.095 | 0.096 | 0.096 | 0.097 | 0.097 | 0.097 | 0.097 | 0.098 | 0.3% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 0.094 | 0.094 | 0.095 | 0.095 | 0.095 | 0.095 | 0.096 | 0.096 | 0.097 | 0.097 | 0.097 | 0.097 | 0.098 | 0.3% |
| Renewable Energy 7/ | 0.261 | 0.268 | 0.274 | 0.280 | 0.286 | 0.292 | 0.299 | 0.306 | 0.312 | 0.319 | 0.326 | 0.334 | 0.341 | 2.3% |
| Electricity | 0.652 | 0.661 | 0.671 | 0.679 | 0.688 | 0.696 | 0.707 | 0.716 | 0.725 | 0.736 | 0.747 | 0.759 | 0.770 | 1.6% |

**Table 7. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West South Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Delivered Energy | 9.465 | 9.576 | 9.673 | 9.756 | 9.860 | 9.975 | 10.117 | 10.222 | 10.329 | 10.450 | 10.557 | 10.706 | 10.830 | 1.4% |
| Electricity Related Losses | 1.006 | 0.998 | 0.999 | 1.002 | 1.002 | 1.007 | 1.010 | 1.015 | 1.014 | 1.023 | 1.022 | 1.043 | 1.022 | -0.3% |
| Total | 10.472 | 10.575 | 10.672 | 10.758 | 10.861 | 10.982 | 11.127 | 11.237 | 11.342 | 11.473 | 11.580 | 11.749 | 11.852 | 1.2% |
| | | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 1.244 | 1.273 | 1.296 | 1.318 | 1.342 | 1.366 | 1.394 | 1.418 | 1.443 | 1.473 | 1.504 | 1.538 | 1.569 | 2.5% |
| Jet Fuel 9/ | 1.076 | 1.109 | 1.141 | 1.173 | 1.205 | 1.237 | 1.270 | 1.301 | 1.331 | 1.363 | 1.395 | 1.426 | 1.459 | 2.3% |
| Motor Gasoline 2/ | 2.669 | 2.726 | 2.780 | 2.832 | 2.882 | 2.934 | 2.989 | 3.036 | 3.082 | 3.131 | 3.185 | 3.244 | 3.299 | 2.2% |
| Residual Fuel | 0.304 | 0.305 | 0.307 | 0.308 | 0.309 | 0.310 | 0.312 | 0.313 | 0.315 | 0.316 | 0.317 | 0.319 | 0.320 | 0.3% |
| Liquefied Petroleum Gas | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 | 7.3% |
| Other Petroleum 10/ | 0.043 | 0.044 | 0.044 | 0.045 | 0.046 | 0.047 | 0.047 | 0.048 | 0.048 | 0.049 | 0.050 | 0.051 | 0.051 | 1.5% |
| Petroleum Subtotal | 5.343 | 5.464 | 5.576 | 5.683 | 5.791 | 5.902 | 6.020 | 6.125 | 6.229 | 6.342 | 6.461 | 6.587 | 6.708 | 2.2% |
| Pipeline Fuel Natural Gas | 0.190 | 0.192 | 0.195 | 0.195 | 0.195 | 0.197 | 0.200 | 0.202 | 0.199 | 0.197 | 0.195 | 0.199 | 0.199 | 1.7% |
| Compressed Natural Gas | 0.009 | 0.009 | 0.010 | 0.010 | 0.011 | 0.011 | 0.012 | 0.012 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 10.8% |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 9.2% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 0.012 | 0.012 | 0.012 | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.016 | 0.016 | 0.017 | 3.0% |
| Delivered Energy | 5.554 | 5.678 | 5.793 | 5.901 | 6.010 | 6.125 | 6.246 | 6.354 | 6.456 | 6.567 | 6.685 | 6.816 | 6.938 | 2.2% |
| Electricity Related Losses | 0.018 | 0.018 | 0.018 | 0.019 | 0.019 | 0.020 | 0.020 | 0.021 | 0.021 | 0.021 | 0.022 | 0.023 | 0.022 | 1.1% |
| Total | 5.572 | 5.696 | 5.812 | 5.920 | 6.030 | 6.145 | 6.266 | 6.375 | 6.477 | 6.589 | 6.707 | 6.839 | 6.961 | 2.2% |
| | | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | | |
| Distillate Fuel | 1.516 | 1.547 | 1.573 | 1.597 | 1.624 | 1.651 | 1.681 | 1.710 | 1.738 | 1.772 | 1.806 | 1.844 | 1.878 | 2.2% |
| Kerosene | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | -0.2% |
| Jet Fuel 9/ | 1.076 | 1.109 | 1.141 | 1.173 | 1.205 | 1.237 | 1.270 | 1.301 | 1.331 | 1.363 | 1.395 | 1.426 | 1.459 | 2.3% |
| Liquefied Petroleum Gas | 2.244 | 2.279 | 2.306 | 2.332 | 2.368 | 2.404 | 2.446 | 2.483 | 2.521 | 2.562 | 2.600 | 2.640 | 2.676 | 1.8% |
| Motor Gasoline 2/ | 2.696 | 2.753 | 2.807 | 2.859 | 2.909 | 2.962 | 3.017 | 3.065 | 3.111 | 3.161 | 3.215 | 3.274 | 3.329 | 2.2% |
| Petrochemical Feedstocks | 0.710 | 0.722 | 0.731 | 0.739 | 0.751 | 0.762 | 0.775 | 0.785 | 0.797 | 0.810 | 0.822 | 0.835 | 0.847 | 2.0% |
| Residual Fuel | 0.317 | 0.318 | 0.319 | 0.320 | 0.322 | 0.323 | 0.325 | 0.326 | 0.328 | 0.329 | 0.331 | 0.332 | 0.334 | 0.3% |
| Other Petroleum 12/ | 1.300 | 1.310 | 1.299 | 1.308 | 1.319 | 1.317 | 1.322 | 1.319 | 1.315 | 1.314 | 1.310 | 1.310 | 1.310 | 0.4% |
| Petroleum Subtotal | 9.862 | 10.040 | 10.180 | 10.332 | 10.500 | 10.660 | 10.840 | 10.993 | 11.146 | 11.315 | 11.481 | 11.665 | 11.836 | 1.8% |
| Natural Gas | 4.131 | 4.165 | 4.217 | 4.246 | 4.280 | 4.333 | 4.394 | 4.439 | 4.498 | 4.560 | 4.615 | 4.687 | 4.749 | 1.3% |
| Lease and Plant Fuel 6/ | 0.681 | 0.688 | 0.696 | 0.698 | 0.697 | 0.705 | 0.714 | 0.719 | 0.709 | 0.702 | 0.697 | 0.709 | 0.713 | 0.9% |
| Pipeline Natural Gas | 0.190 | 0.192 | 0.195 | 0.195 | 0.195 | 0.197 | 0.200 | 0.202 | 0.199 | 0.197 | 0.195 | 0.199 | 0.199 | 1.7% |
| Natural Gas Subtotal | 5.001 | 5.045 | 5.107 | 5.139 | 5.172 | 5.235 | 5.308 | 5.360 | 5.406 | 5.459 | 5.507 | 5.595 | 5.661 | 1.3% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 0.095 | 0.096 | 0.096 | 0.096 | 0.096 | 0.097 | 0.097 | 0.097 | 0.098 | 0.098 | 0.099 | 0.099 | 0.099 | 0.3% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 0.095 | 0.096 | 0.096 | 0.096 | 0.096 | 0.097 | 0.097 | 0.097 | 0.098 | 0.098 | 0.099 | 0.099 | 0.099 | 0.3% |
| Renewable Energy 13/ | 0.284 | 0.291 | 0.298 | 0.304 | 0.310 | 0.317 | 0.324 | 0.330 | 0.337 | 0.344 | 0.351 | 0.359 | 0.366 | 2.2% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 2.099 | 2.136 | 2.170 | 2.204 | 2.233 | 2.266 | 2.301 | 2.334 | 2.361 | 2.392 | 2.426 | 2.464 | 2.501 | 1.8% |
| Delivered Energy | 17.341 | 17.609 | 17.851 | 18.075 | 18.312 | 18.574 | 18.870 | 19.115 | 19.348 | 19.608 | 19.864 | 20.181 | 20.463 | 1.6% |
| Electricity Related Losses | 3.241 | 3.224 | 3.228 | 3.252 | 3.250 | 3.276 | 3.287 | 3.311 | 3.302 | 3.324 | 3.319 | 3.383 | 3.319 | -0.1% |
| Total | 20.582 | 20.832 | 21.078 | 21.327 | 21.562 | 21.850 | 22.157 | 22.425 | 22.650 | 22.932 | 23.183 | 23.564 | 23.782 | 1.3% |
| | | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.020 | 0.020 | 0.019 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.020 | 0.1% |
| Residual Fuel | 0.003 | 0.002 | 0.001 | 0.002 | 0.002 | 0.001 | 0.001 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | -12.1% |
| Petroleum Subtotal | 0.023 | 0.022 | 0.021 | 0.022 | 0.022 | 0.021 | 0.021 | 0.023 | 0.023 | 0.023 | 0.022 | 0.023 | 0.023 | -5.3% |
| Natural Gas | 1.966 | 1.969 | 2.008 | 2.050 | 2.077 | 2.139 | 2.183 | 2.236 | 2.253 | 2.304 | 2.332 | 2.432 | 2.393 | 0.9% |
| Steam Coal | 2.453 | 2.470 | 2.469 | 2.482 | 2.483 | 2.479 | 2.480 | 2.481 | 2.483 | 2.485 | 2.486 | 2.487 | 2.500 | 0.4% |
| Nuclear Power | 0.753 | 0.754 | 0.754 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.3% |
| Renewable Energy/Other 15/ | 0.145 | 0.145 | 0.146 | 0.147 | 0.147 | 0.148 | 0.149 | 0.149 | 0.150 | 0.150 | 0.150 | 0.150 | 0.150 | 3.1% |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |

**Table 7. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West South Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 5.339 | 5.359 | 5.398 | 5.456 | 5.484 | 5.542 | 5.588 | 5.644 | 5.663 | 5.716 | 5.745 | 5.846 | 5.820 | 0.6% |
| Total Energy Consumption | | | | | | | | | | | | | | |
| Distillate Fuel | 1.537 | 1.567 | 1.593 | 1.617 | 1.643 | 1.670 | 1.701 | 1.730 | 1.758 | 1.792 | 1.826 | 1.864 | 1.898 | 2.2% |
| Kerosene | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | -0.2% |
| Jet Fuel 9/ | 1.076 | 1.109 | 1.141 | 1.173 | 1.205 | 1.237 | 1.270 | 1.301 | 1.331 | 1.363 | 1.395 | 1.426 | 1.459 | 2.3% |
| Liquefied Petroleum Gas | 2.244 | 2.279 | 2.306 | 2.332 | 2.368 | 2.404 | 2.446 | 2.483 | 2.521 | 2.562 | 2.600 | 2.640 | 2.676 | 1.8% |
| Motor Gasoline 2/ | 2.696 | 2.753 | 2.807 | 2.859 | 2.909 | 2.962 | 3.017 | 3.065 | 3.111 | 3.161 | 3.215 | 3.274 | 3.329 | 2.2% |
| Petrochemical Feedstocks | 0.710 | 0.722 | 0.731 | 0.739 | 0.751 | 0.762 | 0.775 | 0.785 | 0.797 | 0.810 | 0.822 | 0.835 | 0.847 | 2.0% |
| Residual Fuel | 0.319 | 0.320 | 0.321 | 0.322 | 0.324 | 0.324 | 0.326 | 0.329 | 0.331 | 0.332 | 0.333 | 0.335 | 0.337 | -0.5% |
| Other Petroleum 12/ | 1.300 | 1.310 | 1.299 | 1.308 | 1.319 | 1.317 | 1.322 | 1.319 | 1.315 | 1.314 | 1.310 | 1.310 | 1.310 | 0.4% |
| Petroleum Subtotal | 9.885 | 10.062 | 10.201 | 10.354 | 10.522 | 10.681 | 10.862 | 11.016 | 11.169 | 11.338 | 11.503 | 11.688 | 11.859 | 1.8% |
| Natural Gas | 6.097 | 6.134 | 6.225 | 6.296 | 6.357 | 6.472 | 6.578 | 6.675 | 6.751 | 6.865 | 6.947 | 7.119 | 7.142 | 1.2% |
| Lease and Plant Fuel 6/ | 0.681 | 0.688 | 0.696 | 0.698 | 0.697 | 0.705 | 0.714 | 0.719 | 0.709 | 0.702 | 0.697 | 0.709 | 0.713 | 0.9% |
| Pipeline Natural Gas | 0.190 | 0.192 | 0.195 | 0.195 | 0.195 | 0.197 | 0.200 | 0.202 | 0.199 | 0.197 | 0.195 | 0.199 | 0.199 | 1.7% |
| Natural Gas Subtotal | 6.967 | 7.014 | 7.115 | 7.189 | 7.249 | 7.374 | 7.492 | 7.596 | 7.659 | 7.763 | 7.839 | 8.027 | 8.053 | 1.2% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 2.548 | 2.565 | 2.565 | 2.579 | 2.579 | 2.576 | 2.577 | 2.579 | 2.581 | 2.583 | 2.585 | 2.586 | 2.599 | 0.4% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 2.548 | 2.565 | 2.565 | 2.579 | 2.579 | 2.576 | 2.577 | 2.579 | 2.581 | 2.583 | 2.585 | 2.586 | 2.599 | 0.4% |
| Nuclear Power | 0.753 | 0.754 | 0.754 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.755 | 0.3% |
| Renewable Energy 16/ | 0.429 | 0.437 | 0.444 | 0.450 | 0.457 | 0.465 | 0.472 | 0.480 | 0.486 | 0.494 | 0.501 | 0.509 | 0.516 | 2.4% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Total | 20.582 | 20.832 | 21.079 | 21.327 | 21.562 | 21.850 | 22.157 | 22.425 | 22.650 | 22.932 | 23.183 | 23.564 | 23.782 | 1.3% |
| Energy Use & Related Statistics | | | | | | | | | | | | | | |
| Delivered Energy Use | 17.341 | 17.609 | 17.851 | 18.075 | 18.312 | 18.574 | 18.870 | 19.115 | 19.348 | 19.608 | 19.864 | 20.181 | 20.463 | 1.6% |
| Total Energy Use | 20.582 | 20.832 | 21.078 | 21.327 | 21.562 | 21.850 | 22.157 | 22.425 | 22.650 | 22.932 | 23.183 | 23.564 | 23.782 | 1.3% |
| Population (millions) | 35.652 | 36.039 | 36.427 | 36.816 | 37.205 | 37.593 | 37.979 | 38.363 | 38.746 | 39.128 | 39.510 | 39.892 | 40.280 | 1.1% |
| US GDP (billion 1996 dollars) | 13480 | 13893 | 14288 | 14681 | 15101 | 15540 | 16013 | 16450 | 16888 | 17363 | 17858 | 18389 | 18917 | 3.0% |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1889.2 | 1915.7 | 1944.2 | 1970.2 | 1996.8 | 2024.6 | 2055.5 | 2082.5 | 2108.3 | 2139.7 | 2170.8 | 2204.3 | 2236.9 | 1.5% |

**Table 7. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**West South Central**

1/ Includes wood used for residential heating. See Table A18 estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.
2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.
3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.
4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.
5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.
6/ Represents natural gas used in the field gathering and processing plant machinery.
7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.
8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.
9/ Includes only kerosene type.
10/ Includes aviation gasoline and lubricants.
11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.
13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.
16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.
Sources: 2000 and 2001 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). 2000 and 2001 population and gross domestic product: Global Insight macroeconomic model CTL0802. 2000 and 2001 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2001, DOE/EIA-0573(2001) (Washington, DC, December 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 8. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Mountain**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | |
| Distillate Fuel | 0.009 | 0.010 | 0.009 | 0.010 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.008 | 0.008 |
| Kerosene | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Liquefied Petroleum Gas | 0.027 | 0.025 | 0.027 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 |
| Petroleum Subtotal | 0.036 | 0.036 | 0.037 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.034 | 0.034 | 0.034 | 0.034 |
| Natural Gas | 0.343 | 0.345 | 0.362 | 0.383 | 0.398 | 0.406 | 0.417 | 0.427 | 0.436 | 0.444 | 0.454 | 0.465 | 0.478 |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Renewable Energy 1/ | 0.032 | 0.031 | 0.032 | 0.032 | 0.032 | 0.031 | 0.031 | 0.031 | 0.031 | 0.030 | 0.030 | 0.030 | 0.029 |
| Electricity | 0.249 | 0.256 | 0.262 | 0.275 | 0.283 | 0.289 | 0.296 | 0.303 | 0.310 | 0.316 | 0.322 | 0.329 | 0.336 |
| Delivered Energy | 0.661 | 0.668 | 0.694 | 0.726 | 0.749 | 0.762 | 0.779 | 0.796 | 0.812 | 0.825 | 0.841 | 0.858 | 0.877 |
| Electricity Related Losses | 0.894 | 0.904 | 0.930 | 0.976 | 1.005 | 1.019 | 1.035 | 1.043 | 1.033 | 1.030 | 1.018 | 1.018 | 1.018 |
| Total | 1.555 | 1.573 | 1.623 | 1.703 | 1.753 | 1.782 | 1.814 | 1.838 | 1.845 | 1.855 | 1.859 | 1.876 | 1.895 |
| Commercial | | | | | | | | | | | | | |
| Distillate Fuel | 0.013 | 0.014 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.015 | 0.015 | 0.015 | 0.016 | 0.016 | 0.016 |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Kerosene | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquefied Petroleum Gas | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Motor Gasoline 2/ | 0.002 | 0.002 | 0.002 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Petroleum Subtotal | 0.019 | 0.020 | 0.021 | 0.019 | 0.020 | 0.020 | 0.021 | 0.021 | 0.021 | 0.021 | 0.022 | 0.022 | 0.022 |
| Natural Gas | 0.234 | 0.244 | 0.249 | 0.262 | 0.270 | 0.274 | 0.277 | 0.282 | 0.287 | 0.293 | 0.301 | 0.308 | 0.316 |
| Coal | 0.006 | 0.006 | 0.007 | 0.007 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 |
| Renewable Energy 3/ | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Electricity | 0.237 | 0.250 | 0.255 | 0.262 | 0.270 | 0.276 | 0.282 | 0.291 | 0.300 | 0.311 | 0.322 | 0.333 | 0.344 |
| Delivered Energy | 0.501 | 0.525 | 0.536 | 0.555 | 0.571 | 0.582 | 0.592 | 0.605 | 0.621 | 0.638 | 0.657 | 0.676 | 0.694 |
| Electricity Related Losses | 0.851 | 0.884 | 0.906 | 0.931 | 0.958 | 0.973 | 0.989 | 1.001 | 1.000 | 1.014 | 1.018 | 1.033 | 1.042 |
| Total | 1.353 | 1.410 | 1.442 | 1.486 | 1.530 | 1.555 | 1.581 | 1.607 | 1.620 | 1.652 | 1.674 | 1.709 | 1.736 |
| Industrial 4/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.126 | 0.128 | 0.123 | 0.124 | 0.126 | 0.128 | 0.129 | 0.132 | 0.135 | 0.138 | 0.140 | 0.142 | 0.145 |
| Liquefied Petroleum Gas | 0.014 | 0.013 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.016 |
| Petrochemical Feedstocks | 0.019 | 0.017 | 0.018 | 0.018 | 0.019 | 0.019 | 0.019 | 0.019 | 0.020 | 0.020 | 0.021 | 0.022 | 0.022 |
| Residual Fuel | 0.003 | 0.002 | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Motor Gasoline 2/ | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.015 | 0.015 | 0.016 | 0.016 |
| Other Petroleum 5/ | 0.200 | 0.206 | 0.209 | 0.206 | 0.196 | 0.196 | 0.198 | 0.203 | 0.207 | 0.210 | 0.213 | 0.215 | 0.217 |
| Petroleum Subtotal | 0.373 | 0.375 | 0.375 | 0.375 | 0.360 | 0.362 | 0.366 | 0.375 | 0.384 | 0.391 | 0.397 | 0.403 | 0.408 |
| Natural Gas | 0.281 | 0.261 | 0.281 | 0.285 | 0.285 | 0.286 | 0.292 | 0.296 | 0.299 | 0.304 | 0.312 | 0.320 | 0.326 |
| Lease and Plant Fuel 6/ | 0.152 | 0.156 | 0.191 | 0.211 | 0.217 | 0.218 | 0.218 | 0.215 | 0.219 | 0.220 | 0.226 | 0.234 | 0.248 |
| Natural Gas Subtotal | 0.433 | 0.416 | 0.472 | 0.495 | 0.502 | 0.504 | 0.510 | 0.511 | 0.518 | 0.523 | 0.538 | 0.554 | 0.574 |
| Metallurgical Coal | 0.021 | 0.019 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.017 | 0.017 | 0.017 |
| Steam Coal | 0.102 | 0.098 | 0.093 | 0.096 | 0.098 | 0.099 | 0.100 | 0.101 | 0.103 | 0.104 | 0.106 | 0.106 | 0.108 |
| Net Coal Coke Imports | 0.003 | 0.001 | 0.001 | 0.002 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 |
| Coal Subtotal | 0.125 | 0.118 | 0.111 | 0.116 | 0.119 | 0.120 | 0.122 | 0.124 | 0.127 | 0.128 | 0.130 | 0.132 | 0.133 |
| Renewable Energy 7/ | 0.072 | 0.070 | 0.070 | 0.074 | 0.076 | 0.078 | 0.080 | 0.083 | 0.086 | 0.089 | 0.093 | 0.096 | 0.100 |
| Electricity | 0.237 | 0.224 | 0.213 | 0.223 | 0.228 | 0.232 | 0.238 | 0.245 | 0.253 | 0.259 | 0.266 | 0.272 | 0.279 |
| Delivered Energy | 1.240 | 1.204 | 1.241 | 1.283 | 1.285 | 1.296 | 1.316 | 1.338 | 1.367 | 1.390 | 1.423 | 1.457 | 1.494 |
| Electricity Related Losses | 0.851 | 0.790 | 0.754 | 0.792 | 0.809 | 0.818 | 0.833 | 0.843 | 0.841 | 0.843 | 0.839 | 0.844 | 0.845 |

**Table 8. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Mountain**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 2.092 | 1.994 | 1.995 | 2.075 | 2.093 | 2.115 | 2.149 | 2.181 | 2.208 | 2.233 | 2.262 | 2.301 | 2.339 |
| Transportation | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.443 | 0.452 | 0.449 | 0.472 | 0.495 | 0.514 | 0.538 | 0.563 | 0.588 | 0.616 | 0.645 | 0.674 | 0.699 |
| Jet Fuel 9/ | 0.222 | 0.212 | 0.208 | 0.211 | 0.213 | 0.218 | 0.226 | 0.233 | 0.242 | 0.251 | 0.259 | 0.268 | 0.277 |
| Motor Gasoline 2/ | 1.062 | 1.077 | 1.103 | 1.140 | 1.177 | 1.220 | 1.267 | 1.316 | 1.368 | 1.420 | 1.474 | 1.526 | 1.577 |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquefied Petroleum Gas | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 |
| Other Petroleum 10/ | 0.016 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.019 | 0.019 | 0.020 | 0.020 | 0.021 | 0.021 | 0.022 |
| Petroleum Subtotal | 1.744 | 1.759 | 1.779 | 1.843 | 1.905 | 1.973 | 2.052 | 2.135 | 2.221 | 2.310 | 2.403 | 2.493 | 2.580 |
| Pipeline Fuel Natural Gas | 0.109 | 0.103 | 0.103 | 0.117 | 0.122 | 0.124 | 0.127 | 0.127 | 0.133 | 0.136 | 0.143 | 0.147 | 0.155 |
| Compressed Natural Gas | 0.000 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.003 | 0.004 | 0.004 | 0.005 | 0.006 | 0.006 | 0.007 |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 |
| Delivered Energy | 1.858 | 1.867 | 1.888 | 1.966 | 2.034 | 2.106 | 2.188 | 2.272 | 2.364 | 2.457 | 2.558 | 2.653 | 2.749 |
| Electricity Related Losses | 0.016 | 0.017 | 0.018 | 0.018 | 0.019 | 0.019 | 0.020 | 0.020 | 0.020 | 0.021 | 0.021 | 0.021 | 0.022 |
| Total | 1.874 | 1.884 | 1.906 | 1.984 | 2.052 | 2.125 | 2.207 | 2.292 | 2.384 | 2.478 | 2.579 | 2.675 | 2.770 |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | |
| Distillate Fuel | 0.591 | 0.603 | 0.595 | 0.620 | 0.644 | 0.665 | 0.691 | 0.719 | 0.748 | 0.778 | 0.809 | 0.840 | 0.868 |
| Kerosene | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Jet Fuel 9/ | 0.222 | 0.212 | 0.208 | 0.211 | 0.213 | 0.218 | 0.226 | 0.233 | 0.242 | 0.251 | 0.259 | 0.268 | 0.277 |
| Liquefied Petroleum Gas | 0.046 | 0.043 | 0.046 | 0.044 | 0.045 | 0.045 | 0.045 | 0.046 | 0.046 | 0.047 | 0.047 | 0.048 | 0.049 |
| Motor Gasoline 2/ | 1.078 | 1.093 | 1.120 | 1.156 | 1.193 | 1.236 | 1.283 | 1.332 | 1.384 | 1.437 | 1.491 | 1.543 | 1.594 |
| Petrochemical Feedstocks | 0.019 | 0.017 | 0.018 | 0.018 | 0.019 | 0.019 | 0.019 | 0.019 | 0.020 | 0.020 | 0.021 | 0.022 | 0.022 |
| Residual Fuel | 0.003 | 0.002 | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Other Petroleum 12/ | 0.212 | 0.218 | 0.221 | 0.220 | 0.205 | 0.206 | 0.208 | 0.214 | 0.218 | 0.222 | 0.225 | 0.228 | 0.231 |
| Petroleum Subtotal | 2.172 | 2.190 | 2.212 | 2.272 | 2.320 | 2.391 | 2.474 | 2.566 | 2.661 | 2.757 | 2.856 | 2.952 | 3.044 |
| Natural Gas | 0.859 | 0.850 | 0.893 | 0.931 | 0.955 | 0.969 | 0.989 | 1.009 | 1.026 | 1.046 | 1.072 | 1.099 | 1.127 |
| Lease and Plant Fuel 6/ | 0.152 | 0.156 | 0.191 | 0.211 | 0.217 | 0.218 | 0.218 | 0.215 | 0.219 | 0.220 | 0.226 | 0.234 | 0.248 |
| Pipeline Natural Gas | 0.109 | 0.103 | 0.103 | 0.117 | 0.122 | 0.124 | 0.127 | 0.127 | 0.133 | 0.136 | 0.143 | 0.147 | 0.155 |
| Natural Gas Subtotal | 1.119 | 1.109 | 1.187 | 1.258 | 1.293 | 1.311 | 1.334 | 1.351 | 1.378 | 1.401 | 1.440 | 1.481 | 1.530 |
| Metallurgical Coal | 0.021 | 0.019 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.017 | 0.017 | 0.017 |
| Steam Coal | 0.109 | 0.105 | 0.101 | 0.103 | 0.105 | 0.107 | 0.107 | 0.109 | 0.111 | 0.112 | 0.114 | 0.115 | 0.116 |
| Net Coal Coke Imports | 0.003 | 0.001 | 0.001 | 0.002 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 |
| Coal Subtotal | 0.132 | 0.125 | 0.119 | 0.123 | 0.126 | 0.128 | 0.129 | 0.132 | 0.135 | 0.136 | 0.138 | 0.140 | 0.141 |
| Renewable Energy 13/ | 0.109 | 0.106 | 0.107 | 0.111 | 0.113 | 0.114 | 0.116 | 0.119 | 0.121 | 0.124 | 0.128 | 0.131 | 0.134 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.728 | 0.735 | 0.735 | 0.766 | 0.786 | 0.803 | 0.822 | 0.844 | 0.869 | 0.892 | 0.917 | 0.941 | 0.965 |
| Delivered Energy | 4.261 | 4.265 | 4.359 | 4.530 | 4.638 | 4.746 | 4.875 | 5.011 | 5.164 | 5.310 | 5.479 | 5.644 | 5.814 |
| Electricity Related Losses | 2.613 | 2.595 | 2.607 | 2.718 | 2.791 | 2.830 | 2.877 | 2.907 | 2.894 | 2.908 | 2.896 | 2.916 | 2.926 |
| Total | 6.874 | 6.860 | 6.966 | 7.248 | 7.429 | 7.576 | 7.752 | 7.918 | 8.058 | 8.218 | 8.374 | 8.560 | 8.740 |
| Electric Generators 14/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.001 | 0.005 | 0.006 | 0.008 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 |
| Residual Fuel | 0.013 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Petroleum Subtotal | 0.013 | 0.029 | 0.006 | 0.008 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 |
| Natural Gas | 0.350 | 0.420 | 0.421 | 0.518 | 0.531 | 0.515 | 0.484 | 0.398 | 0.441 | 0.417 | 0.428 | 0.412 | 0.437 |
| Steam Coal | 2.276 | 2.249 | 2.214 | 2.196 | 2.260 | 2.318 | 2.403 | 2.519 | 2.483 | 2.528 | 2.528 | 2.568 | 2.569 |
| Nuclear Power | 0.303 | 0.309 | 0.311 | 0.316 | 0.316 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 |
| Renewable Energy/Other 15/ | 0.399 | 0.324 | 0.391 | 0.447 | 0.462 | 0.472 | 0.483 | 0.506 | 0.512 | 0.527 | 0.528 | 0.550 | 0.558 |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 3.341 | 3.330 | 3.342 | 3.484 | 3.577 | 3.632 | 3.699 | 3.751 | 3.764 | 3.800 | 3.812 | 3.857 | 3.891 |

**Table 8. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Mountain**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | |
| Distillate Fuel | 0.592 | 0.608 | 0.601 | 0.628 | 0.654 | 0.675 | 0.701 | 0.729 | 0.758 | 0.788 | 0.819 | 0.850 | 0.878 |
| Kerosene | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Jet Fuel 9/ | 0.222 | 0.212 | 0.208 | 0.211 | 0.213 | 0.218 | 0.226 | 0.233 | 0.242 | 0.251 | 0.259 | 0.268 | 0.277 |
| Liquefied Petroleum Gas | 0.046 | 0.043 | 0.046 | 0.044 | 0.045 | 0.045 | 0.045 | 0.046 | 0.046 | 0.047 | 0.047 | 0.048 | 0.049 |
| Motor Gasoline 2/ | 1.078 | 1.093 | 1.120 | 1.156 | 1.193 | 1.236 | 1.283 | 1.332 | 1.384 | 1.437 | 1.491 | 1.543 | 1.594 |
| Petrochemical Feedstocks | 0.019 | 0.017 | 0.018 | 0.018 | 0.019 | 0.019 | 0.019 | 0.019 | 0.020 | 0.020 | 0.021 | 0.022 | 0.022 |
| Residual Fuel | 0.015 | 0.026 | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Other Petroleum 12/ | 0.212 | 0.218 | 0.221 | 0.220 | 0.205 | 0.206 | 0.208 | 0.214 | 0.218 | 0.222 | 0.225 | 0.228 | 0.231 |
| Petroleum Subtotal | 2.186 | 2.218 | 2.218 | 2.280 | 2.330 | 2.401 | 2.484 | 2.576 | 2.671 | 2.767 | 2.866 | 2.961 | 3.054 |
| Natural Gas | 1.208 | 1.270 | 1.314 | 1.449 | 1.486 | 1.484 | 1.474 | 1.407 | 1.467 | 1.462 | 1.500 | 1.511 | 1.564 |
| Lease and Plant Fuel 6/ | 0.152 | 0.156 | 0.191 | 0.211 | 0.217 | 0.218 | 0.218 | 0.215 | 0.219 | 0.220 | 0.226 | 0.234 | 0.248 |
| Pipeline Natural Gas | 0.109 | 0.103 | 0.103 | 0.117 | 0.122 | 0.124 | 0.127 | 0.127 | 0.133 | 0.136 | 0.143 | 0.147 | 0.155 |
| Natural Gas Subtotal | 1.469 | 1.529 | 1.608 | 1.776 | 1.824 | 1.825 | 1.818 | 1.749 | 1.818 | 1.818 | 1.869 | 1.893 | 1.967 |
| Metallurgical Coal | 0.021 | 0.019 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.017 | 0.017 | 0.017 |
| Steam Coal | 2.385 | 2.355 | 2.315 | 2.299 | 2.365 | 2.424 | 2.511 | 2.628 | 2.594 | 2.640 | 2.642 | 2.682 | 2.685 |
| Net Coal Coke Imports | 0.003 | 0.001 | 0.001 | 0.002 | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 |
| Coal Subtotal | 2.408 | 2.374 | 2.333 | 2.319 | 2.386 | 2.445 | 2.532 | 2.651 | 2.618 | 2.664 | 2.666 | 2.707 | 2.710 |
| Nuclear Power | 0.303 | 0.309 | 0.311 | 0.316 | 0.316 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 |
| Renewable Energy 16/ | 0.508 | 0.430 | 0.498 | 0.558 | 0.575 | 0.587 | 0.599 | 0.625 | 0.634 | 0.652 | 0.656 | 0.681 | 0.692 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 6.874 | 6.861 | 6.968 | 7.250 | 7.431 | 7.578 | 7.754 | 7.920 | 8.060 | 8.220 | 8.376 | 8.562 | 8.742 |
| Energy Use & Related Statistics | | | | | | | | | | | | | |
| Delivered Energy Use | 4.261 | 4.265 | 4.359 | 4.530 | 4.638 | 4.746 | 4.875 | 5.011 | 5.164 | 5.310 | 5.479 | 5.644 | 5.814 |
| Total Energy Use | 6.874 | 6.860 | 6.966 | 7.248 | 7.429 | 7.576 | 7.752 | 7.918 | 8.058 | 8.218 | 8.374 | 8.560 | 8.740 |
| Population (millions) | 17.521 | 17.870 | 18.226 | 18.588 | 18.954 | 19.326 | 19.701 | 20.082 | 20.471 | 20.867 | 21.270 | 21.678 | 22.093 |
| US GDP (billion 1996 dollars) | 9191 | 9215 | 9440 | 9743 | 10074 | 10361 | 10667 | 11017 | 11408 | 11810 | 12258 | 12671 | 13082 |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1578.2 | 1558.6 | 1536.2 | 1567.9 | 1597.2 | 1623.7 | 1662.3 | 1699.7 | 1734.5 | 1765.8 | 1800.5 | 1832.6 | 1862.1 |

**Table 8. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Mountain**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | | |
| Distillate Fuel | 0.008 | 0.008 | 0.007 | 0.007 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.005 | 0.005 | 0.005 | 0.004 | -3.1% |
| Kerosene | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 2.9% |
| Liquefied Petroleum Gas | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.026 | 0.026 | 0.1% |
| Petroleum Subtotal | 0.033 | 0.033 | 0.033 | 0.033 | 0.033 | 0.033 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | 0.032 | -0.5% |
| Natural Gas | 0.488 | 0.496 | 0.504 | 0.513 | 0.520 | 0.530 | 0.540 | 0.551 | 0.561 | 0.572 | 0.582 | 0.591 | 0.597 | 2.3% |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.3% |
| Renewable Energy 1/ | 0.029 | 0.029 | 0.028 | 0.028 | 0.028 | 0.027 | 0.027 | 0.027 | 0.027 | 0.026 | 0.026 | 0.026 | 0.026 | -0.8% |
| Electricity | 0.342 | 0.348 | 0.355 | 0.362 | 0.368 | 0.374 | 0.381 | 0.388 | 0.394 | 0.401 | 0.408 | 0.415 | 0.421 | 2.1% |
| Delivered Energy | 0.893 | 0.907 | 0.921 | 0.936 | 0.949 | 0.965 | 0.982 | 1.000 | 1.014 | 1.032 | 1.048 | 1.065 | 1.076 | 2.0% |
| Electricity Related Losses | 1.030 | 1.027 | 1.047 | 1.047 | 1.060 | 1.057 | 1.071 | 1.072 | 1.102 | 1.112 | 1.136 | 1.136 | 1.151 | 1.0% |
| Total | 1.923 | 1.934 | 1.968 | 1.983 | 2.009 | 2.022 | 2.052 | 2.072 | 2.117 | 2.144 | 2.185 | 2.200 | 2.227 | 1.5% |
| Commercial | | | | | | | | | | | | | | |
| Distillate Fuel | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 1.2% |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -3.4% |
| Kerosene | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -0.1% |
| Liquefied Petroleum Gas | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.8% |
| Motor Gasoline 2/ | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | -1.2% |
| Petroleum Subtotal | 0.022 | 0.022 | 0.023 | 0.023 | 0.023 | 0.023 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.025 | 0.025 | 0.9% |
| Natural Gas | 0.324 | 0.330 | 0.336 | 0.343 | 0.352 | 0.363 | 0.372 | 0.381 | 0.390 | 0.400 | 0.408 | 0.415 | 0.423 | 2.3% |
| Coal | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 1.5% |
| Renewable Energy 3/ | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.0% |
| Electricity | 0.355 | 0.365 | 0.378 | 0.390 | 0.404 | 0.418 | 0.432 | 0.444 | 0.458 | 0.469 | 0.482 | 0.495 | 0.510 | 3.0% |
| Delivered Energy | 0.713 | 0.730 | 0.749 | 0.769 | 0.793 | 0.817 | 0.841 | 0.863 | 0.885 | 0.907 | 0.929 | 0.949 | 0.972 | 2.6% |
| Electricity Related Losses | 1.069 | 1.078 | 1.115 | 1.129 | 1.166 | 1.182 | 1.215 | 1.227 | 1.279 | 1.302 | 1.344 | 1.355 | 1.396 | 1.9% |
| Total | 1.783 | 1.808 | 1.864 | 1.898 | 1.959 | 1.999 | 2.057 | 2.090 | 2.165 | 2.208 | 2.273 | 2.304 | 2.368 | 2.2% |
| Industrial 4/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.146 | 0.148 | 0.150 | 0.152 | 0.154 | 0.156 | 0.158 | 0.161 | 0.163 | 0.166 | 0.168 | 0.171 | 0.174 | 1.3% |
| Liquefied Petroleum Gas | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 1.5% |
| Petrochemical Feedstocks | 0.022 | 0.023 | 0.023 | 0.023 | 0.024 | 0.024 | 0.024 | 0.025 | 0.025 | 0.025 | 0.025 | 0.026 | 0.026 | 1.9% |
| Residual Fuel | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | -3.6% |
| Motor Gasoline 2/ | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 0.018 | 0.018 | 0.018 | 0.019 | 0.019 | 1.2% |
| Other Petroleum 5/ | 0.219 | 0.222 | 0.223 | 0.226 | 0.228 | 0.229 | 0.233 | 0.235 | 0.238 | 0.241 | 0.243 | 0.246 | 0.249 | 0.8% |
| Petroleum Subtotal | 0.412 | 0.417 | 0.421 | 0.425 | 0.431 | 0.435 | 0.441 | 0.447 | 0.452 | 0.458 | 0.464 | 0.470 | 0.477 | 1.0% |
| Natural Gas | 0.331 | 0.334 | 0.338 | 0.341 | 0.345 | 0.350 | 0.355 | 0.360 | 0.366 | 0.372 | 0.378 | 0.383 | 0.389 | 1.7% |
| Lease and Plant Fuel 6/ | 0.261 | 0.268 | 0.272 | 0.272 | 0.275 | 0.287 | 0.296 | 0.309 | 0.299 | 0.292 | 0.304 | 0.309 | 0.303 | 2.8% |
| Natural Gas Subtotal | 0.592 | 0.602 | 0.610 | 0.613 | 0.620 | 0.637 | 0.652 | 0.669 | 0.666 | 0.664 | 0.682 | 0.692 | 0.692 | 2.1% |
| Metallurgical Coal | 0.016 | 0.016 | 0.016 | 0.016 | 0.015 | 0.015 | 0.015 | 0.014 | 0.014 | 0.014 | 0.014 | 0.013 | 0.013 | -1.5% |
| Steam Coal | 0.109 | 0.110 | 0.111 | 0.112 | 0.114 | 0.115 | 0.116 | 0.117 | 0.118 | 0.119 | 0.121 | 0.122 | 0.124 | 1.0% |
| Net Coal Coke Imports | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 0.013 | 10.9% |
| Coal Subtotal | 0.134 | 0.136 | 0.137 | 0.138 | 0.139 | 0.140 | 0.142 | 0.142 | 0.144 | 0.145 | 0.146 | 0.148 | 0.150 | 1.0% |
| Renewable Energy 7/ | 0.103 | 0.106 | 0.108 | 0.111 | 0.114 | 0.116 | 0.120 | 0.123 | 0.126 | 0.129 | 0.132 | 0.136 | 0.138 | 2.9% |
| Electricity | 0.284 | 0.290 | 0.295 | 0.299 | 0.304 | 0.309 | 0.315 | 0.320 | 0.325 | 0.332 | 0.339 | 0.346 | 0.353 | 1.9% |
| Delivered Energy | 1.524 | 1.551 | 1.572 | 1.587 | 1.607 | 1.637 | 1.669 | 1.701 | 1.712 | 1.728 | 1.762 | 1.793 | 1.811 | 1.7% |
| Electricity Related Losses | 0.857 | 0.856 | 0.871 | 0.865 | 0.876 | 0.873 | 0.885 | 0.884 | 0.910 | 0.921 | 0.944 | 0.948 | 0.967 | 0.8% |

**Table 8. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Mountain**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 2.382 | 2.407 | 2.442 | 2.452 | 2.483 | 2.511 | 2.553 | 2.585 | 2.623 | 2.650 | 2.706 | 2.741 | 2.778 | 1.4% |
| Transportation | | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.723 | 0.747 | 0.768 | 0.788 | 0.810 | 0.832 | 0.857 | 0.880 | 0.903 | 0.930 | 0.957 | 0.987 | 1.015 | 3.4% |
| Jet Fuel 9/ | 0.287 | 0.297 | 0.307 | 0.318 | 0.328 | 0.339 | 0.350 | 0.361 | 0.371 | 0.382 | 0.393 | 0.405 | 0.416 | 2.8% |
| Motor Gasoline 2/ | 1.628 | 1.676 | 1.724 | 1.770 | 1.816 | 1.864 | 1.915 | 1.961 | 2.007 | 2.055 | 2.108 | 2.164 | 2.218 | 3.1% |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Liquefied Petroleum Gas | 0.005 | 0.005 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 7.8% |
| Other Petroleum 10/ | 0.023 | 0.023 | 0.024 | 0.025 | 0.025 | 0.026 | 0.027 | 0.027 | 0.028 | 0.028 | 0.029 | 0.030 | 0.030 | 2.5% |
| Petroleum Subtotal | 2.665 | 2.748 | 2.828 | 2.906 | 2.985 | 3.067 | 3.154 | 3.235 | 3.315 | 3.402 | 3.494 | 3.593 | 3.687 | 3.1% |
| Pipeline Fuel Natural Gas | 0.160 | 0.164 | 0.165 | 0.164 | 0.164 | 0.172 | 0.176 | 0.184 | 0.176 | 0.170 | 0.177 | 0.181 | 0.179 | 2.3% |
| Compressed Natural Gas | 0.008 | 0.008 | 0.009 | 0.009 | 0.010 | 0.010 | 0.011 | 0.011 | 0.012 | 0.012 | 0.012 | 0.013 | 0.013 | 12.9% |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 10.2% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 0.007 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.012 | 3.8% |
| Delivered Energy | 2.840 | 2.928 | 3.010 | 3.087 | 3.168 | 3.259 | 3.351 | 3.440 | 3.513 | 3.595 | 3.695 | 3.799 | 3.891 | 3.1% |
| Electricity Related Losses | 0.022 | 0.023 | 0.023 | 0.024 | 0.025 | 0.025 | 0.026 | 0.027 | 0.028 | 0.029 | 0.030 | 0.031 | 0.032 | 2.7% |
| Total | 2.863 | 2.951 | 3.033 | 3.111 | 3.193 | 3.284 | 3.377 | 3.466 | 3.541 | 3.624 | 3.725 | 3.830 | 3.923 | 3.1% |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | | |
| Distillate Fuel | 0.893 | 0.919 | 0.941 | 0.963 | 0.987 | 1.012 | 1.039 | 1.064 | 1.089 | 1.118 | 1.148 | 1.181 | 1.212 | 3.0% |
| Kerosene | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 1.5% |
| Jet Fuel 9/ | 0.287 | 0.297 | 0.307 | 0.318 | 0.328 | 0.339 | 0.350 | 0.361 | 0.371 | 0.382 | 0.393 | 0.405 | 0.416 | 2.8% |
| Liquefied Petroleum Gas | 0.049 | 0.050 | 0.050 | 0.051 | 0.051 | 0.052 | 0.052 | 0.053 | 0.053 | 0.054 | 0.055 | 0.055 | 0.056 | 1.1% |
| Motor Gasoline 2/ | 1.646 | 1.694 | 1.742 | 1.789 | 1.835 | 1.883 | 1.934 | 1.980 | 2.026 | 2.075 | 2.128 | 2.184 | 2.239 | 3.0% |
| Petrochemical Feedstocks | 0.022 | 0.023 | 0.023 | 0.023 | 0.024 | 0.024 | 0.024 | 0.025 | 0.025 | 0.025 | 0.025 | 0.026 | 0.026 | 1.9% |
| Residual Fuel | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | -3.6% |
| Other Petroleum 12/ | 0.233 | 0.236 | 0.238 | 0.241 | 0.244 | 0.246 | 0.250 | 0.253 | 0.256 | 0.259 | 0.262 | 0.265 | 0.269 | 0.9% |
| Petroleum Subtotal | 3.132 | 3.221 | 3.305 | 3.387 | 3.471 | 3.558 | 3.651 | 3.738 | 3.823 | 3.917 | 4.014 | 4.120 | 4.221 | 2.8% |
| Natural Gas | 1.150 | 1.168 | 1.187 | 1.207 | 1.227 | 1.253 | 1.278 | 1.303 | 1.329 | 1.356 | 1.380 | 1.403 | 1.422 | 2.2% |
| Lease and Plant Fuel 6/ | 0.261 | 0.268 | 0.272 | 0.272 | 0.275 | 0.287 | 0.296 | 0.309 | 0.299 | 0.292 | 0.304 | 0.309 | 0.303 | 2.8% |
| Pipeline Natural Gas | 0.160 | 0.164 | 0.165 | 0.164 | 0.164 | 0.172 | 0.176 | 0.184 | 0.176 | 0.170 | 0.177 | 0.181 | 0.179 | 2.3% |
| Natural Gas Subtotal | 1.571 | 1.600 | 1.624 | 1.642 | 1.667 | 1.712 | 1.751 | 1.796 | 1.804 | 1.818 | 1.860 | 1.893 | 1.904 | 2.3% |
| Metallurgical Coal | 0.016 | 0.016 | 0.016 | 0.016 | 0.015 | 0.015 | 0.015 | 0.014 | 0.014 | 0.014 | 0.014 | 0.013 | 0.013 | -1.5% |
| Steam Coal | 0.117 | 0.119 | 0.120 | 0.121 | 0.123 | 0.124 | 0.125 | 0.126 | 0.128 | 0.129 | 0.131 | 0.132 | 0.134 | 1.0% |
| Net Coal Coke Imports | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 0.013 | 10.9% |
| Coal Subtotal | 0.143 | 0.144 | 0.146 | 0.147 | 0.148 | 0.149 | 0.151 | 0.152 | 0.153 | 0.154 | 0.156 | 0.158 | 0.160 | 1.0% |
| Renewable Energy 13/ | 0.137 | 0.140 | 0.142 | 0.144 | 0.147 | 0.149 | 0.152 | 0.155 | 0.158 | 0.161 | 0.164 | 0.167 | 0.170 | 2.0% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 0.988 | 1.011 | 1.035 | 1.059 | 1.084 | 1.110 | 1.137 | 1.162 | 1.187 | 1.212 | 1.240 | 1.268 | 1.296 | 2.4% |
| Delivered Energy | 5.971 | 6.116 | 6.251 | 6.379 | 6.517 | 6.678 | 6.842 | 7.003 | 7.125 | 7.262 | 7.434 | 7.606 | 7.750 | 2.5% |
| Electricity Related Losses | 2.979 | 2.984 | 3.057 | 3.065 | 3.127 | 3.138 | 3.196 | 3.210 | 3.320 | 3.364 | 3.455 | 3.470 | 3.546 | 1.3% |
| Total | 8.950 | 9.100 | 9.308 | 9.444 | 9.644 | 9.816 | 10.039 | 10.213 | 10.445 | 10.626 | 10.889 | 11.075 | 11.296 | 2.1% |
| Electric Generators 14/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 2.8% |
| Residual Fuel | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Petroleum Subtotal | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | -4.3% |
| Natural Gas | 0.406 | 0.394 | 0.330 | 0.346 | 0.314 | 0.328 | 0.300 | 0.321 | 0.373 | 0.401 | 0.389 | 0.401 | 0.380 | -0.4% |
| Steam Coal | 2.647 | 2.682 | 2.830 | 2.846 | 2.955 | 2.977 | 3.079 | 3.097 | 3.169 | 3.210 | 3.331 | 3.361 | 3.481 | 1.8% |
| Nuclear Power | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.1% |
| Renewable Energy/Other 15/ | 0.586 | 0.591 | 0.604 | 0.604 | 0.614 | 0.614 | 0.626 | 0.626 | 0.637 | 0.637 | 0.646 | 0.647 | 0.652 | 3.0% |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Total | 3.966 | 3.995 | 4.092 | 4.124 | 4.211 | 4.248 | 4.334 | 4.372 | 4.507 | 4.577 | 4.695 | 4.738 | 4.842 | 1.6% |

**Table 8. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Mountain**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | | |
| Distillate Fuel | 0.903 | 0.928 | 0.951 | 0.973 | 0.997 | 1.021 | 1.048 | 1.074 | 1.099 | 1.128 | 1.158 | 1.191 | 1.221 | 3.0% |
| Kerosene | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 1.5% |
| Jet Fuel 9/ | 0.287 | 0.297 | 0.307 | 0.318 | 0.328 | 0.339 | 0.350 | 0.361 | 0.371 | 0.382 | 0.393 | 0.405 | 0.416 | 2.8% |
| Liquefied Petroleum Gas | 0.049 | 0.050 | 0.050 | 0.051 | 0.051 | 0.052 | 0.052 | 0.053 | 0.053 | 0.054 | 0.055 | 0.055 | 0.056 | 1.1% |
| Motor Gasoline 2/ | 1.646 | 1.694 | 1.742 | 1.789 | 1.835 | 1.883 | 1.934 | 1.980 | 2.026 | 2.075 | 2.128 | 2.184 | 2.239 | 3.0% |
| Petrochemical Feedstocks | 0.022 | 0.023 | 0.023 | 0.023 | 0.024 | 0.024 | 0.024 | 0.025 | 0.025 | 0.025 | 0.025 | 0.026 | 0.026 | 1.9% |
| Residual Fuel | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | -13.0% |
| Other Petroleum 12/ | 0.233 | 0.236 | 0.238 | 0.241 | 0.244 | 0.246 | 0.250 | 0.253 | 0.256 | 0.259 | 0.262 | 0.265 | 0.269 | 0.9% |
| Petroleum Subtotal | 3.142 | 3.231 | 3.314 | 3.397 | 3.481 | 3.568 | 3.661 | 3.748 | 3.833 | 3.926 | 4.024 | 4.129 | 4.231 | 2.7% |
| Natural Gas | 1.556 | 1.563 | 1.517 | 1.553 | 1.541 | 1.581 | 1.578 | 1.624 | 1.702 | 1.756 | 1.768 | 1.804 | 1.801 | 1.5% |
| Lease and Plant Fuel 6/ | 0.261 | 0.268 | 0.272 | 0.272 | 0.275 | 0.287 | 0.296 | 0.309 | 0.299 | 0.292 | 0.304 | 0.309 | 0.303 | 2.8% |
| Pipeline Natural Gas | 0.160 | 0.164 | 0.165 | 0.164 | 0.164 | 0.172 | 0.176 | 0.184 | 0.176 | 0.170 | 0.177 | 0.181 | 0.179 | 2.3% |
| Natural Gas Subtotal | 1.977 | 1.994 | 1.954 | 1.989 | 1.981 | 2.040 | 2.051 | 2.117 | 2.177 | 2.218 | 2.249 | 2.294 | 2.283 | 1.7% |
| Metallurgical Coal | 0.016 | 0.016 | 0.016 | 0.016 | 0.015 | 0.015 | 0.015 | 0.014 | 0.014 | 0.014 | 0.014 | 0.013 | 0.013 | -1.5% |
| Steam Coal | 2.764 | 2.801 | 2.950 | 2.967 | 3.078 | 3.101 | 3.205 | 3.223 | 3.297 | 3.340 | 3.462 | 3.493 | 3.615 | 1.8% |
| Net Coal Coke Imports | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 0.013 | 10.9% |
| Coal Subtotal | 2.789 | 2.826 | 2.975 | 2.992 | 3.103 | 3.126 | 3.230 | 3.249 | 3.322 | 3.365 | 3.487 | 3.518 | 3.641 | 1.8% |
| Nuclear Power | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.319 | 0.1% |
| Renewable Energy 16/ | 0.723 | 0.731 | 0.746 | 0.748 | 0.761 | 0.763 | 0.778 | 0.781 | 0.794 | 0.797 | 0.810 | 0.814 | 0.822 | 2.7% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Total | 8.951 | 9.102 | 9.309 | 9.446 | 9.645 | 9.817 | 10.040 | 10.214 | 10.446 | 10.627 | 10.890 | 11.076 | 11.296 | 2.1% |
| Energy Use & Related Statistics | | | | | | | | | | | | | | |
| Delivered Energy Use | 5.971 | 6.116 | 6.251 | 6.379 | 6.517 | 6.678 | 6.842 | 7.003 | 7.125 | 7.262 | 7.434 | 7.606 | 7.750 | 2.5% |
| Total Energy Use | 8.950 | 9.100 | 9.308 | 9.444 | 9.644 | 9.816 | 10.039 | 10.213 | 10.445 | 10.626 | 10.889 | 11.075 | 11.296 | 2.1% |
| Population (millions) | 22.515 | 22.942 | 23.375 | 23.814 | 24.258 | 24.706 | 25.159 | 25.616 | 26.079 | 26.547 | 27.022 | 27.502 | 27.993 | 1.9% |
| US GDP (billion 1996 dollars) | 13480 | 13893 | 14288 | 14681 | 15101 | 15540 | 16013 | 16450 | 16888 | 17363 | 17858 | 18389 | 18917 | 3.0% |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1889.2 | 1915.7 | 1944.2 | 1970.2 | 1996.8 | 2024.6 | 2055.5 | 2082.5 | 2108.3 | 2139.7 | 2170.8 | 2204.3 | 2236.9 | 1.5% |

**Table 8. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Mountain**

1/ Includes wood used for residential heating. See Table A18 estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.
2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.
3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.
4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.
5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.
6/ Represents natural gas used in the field gathering and processing plant machinery.
7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.
8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.
9/ Includes only kerosene type.
10/ Includes aviation gasoline and lubricants.
11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.
13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.
16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.
Sources: 2000 and 2001 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). 2000 and 2001 population and gross domestic product: Global Insight macroeconomic model CTL0802. 2000 and 2001 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2001, DOE/EIA-0573(2001) (Washington, DC, December 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 9. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Pacific**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | |
| Distillate Fuel | 0.020 | 0.023 | 0.022 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.023 | 0.022 | 0.022 |
| Kerosene | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Liquefied Petroleum Gas | 0.029 | 0.027 | 0.028 | 0.025 | 0.025 | 0.025 | 0.025 | 0.024 | 0.024 | 0.024 | 0.023 | 0.023 | 0.023 |
| Petroleum Subtotal | 0.051 | 0.052 | 0.052 | 0.050 | 0.050 | 0.050 | 0.050 | 0.049 | 0.049 | 0.048 | 0.048 | 0.047 | 0.047 |
| Natural Gas | 0.659 | 0.655 | 0.675 | 0.701 | 0.715 | 0.717 | 0.724 | 0.731 | 0.739 | 0.742 | 0.748 | 0.756 | 0.766 |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Renewable Energy 1/ | 0.068 | 0.068 | 0.070 | 0.070 | 0.071 | 0.071 | 0.072 | 0.072 | 0.073 | 0.073 | 0.074 | 0.074 | 0.075 |
| Electricity | 0.464 | 0.453 | 0.454 | 0.472 | 0.482 | 0.487 | 0.492 | 0.496 | 0.501 | 0.503 | 0.506 | 0.509 | 0.516 |
| Delivered Energy | 1.243 | 1.229 | 1.252 | 1.294 | 1.319 | 1.327 | 1.339 | 1.350 | 1.363 | 1.367 | 1.376 | 1.388 | 1.405 |
| Electricity Related Losses | 0.730 | 0.642 | 0.685 | 0.691 | 0.711 | 0.730 | 0.746 | 0.749 | 0.764 | 0.771 | 0.779 | 0.787 | 0.796 |
| Total | 1.973 | 1.871 | 1.937 | 1.985 | 2.030 | 2.058 | 2.085 | 2.098 | 2.126 | 2.138 | 2.156 | 2.174 | 2.201 |
| Commercial | | | | | | | | | | | | | |
| Distillate Fuel | 0.023 | 0.024 | 0.024 | 0.023 | 0.025 | 0.026 | 0.027 | 0.028 | 0.028 | 0.029 | 0.030 | 0.031 | 0.032 |
| Residual Fuel | 0.003 | 0.003 | 0.001 | 0.002 | 0.003 | 0.001 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Kerosene | 0.001 | 0.001 | 0.000 | 0.000 | 0.001 | 0.000 | 0.000 | 0.000 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Liquefied Petroleum Gas | 0.006 | 0.005 | 0.006 | 0.005 | 0.006 | 0.006 | 0.005 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 |
| Motor Gasoline 2/ | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Petroleum Subtotal | 0.035 | 0.036 | 0.035 | 0.034 | 0.037 | 0.036 | 0.037 | 0.038 | 0.039 | 0.040 | 0.041 | 0.042 | 0.043 |
| Natural Gas | 0.377 | 0.401 | 0.396 | 0.407 | 0.416 | 0.422 | 0.428 | 0.434 | 0.439 | 0.444 | 0.450 | 0.457 | 0.466 |
| Coal | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 |
| Renewable Energy 3/ | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 |
| Electricity | 0.598 | 0.599 | 0.596 | 0.621 | 0.648 | 0.669 | 0.688 | 0.707 | 0.725 | 0.744 | 0.764 | 0.785 | 0.809 |
| Delivered Energy | 1.037 | 1.063 | 1.053 | 1.087 | 1.127 | 1.153 | 1.180 | 1.205 | 1.229 | 1.254 | 1.281 | 1.311 | 1.345 |
| Electricity Related Losses | 0.940 | 0.851 | 0.900 | 0.910 | 0.955 | 1.003 | 1.043 | 1.067 | 1.105 | 1.141 | 1.176 | 1.213 | 1.250 |
| Total | 1.977 | 1.913 | 1.953 | 1.997 | 2.082 | 2.156 | 2.223 | 2.272 | 2.335 | 2.396 | 2.458 | 2.524 | 2.595 |
| Industrial 4/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.090 | 0.091 | 0.088 | 0.089 | 0.089 | 0.090 | 0.091 | 0.093 | 0.095 | 0.097 | 0.098 | 0.100 | 0.102 |
| Liquefied Petroleum Gas | 0.032 | 0.034 | 0.035 | 0.036 | 0.086 | 0.086 | 0.088 | 0.088 | 0.087 | 0.091 | 0.097 | 0.105 | 0.110 |
| Petrochemical Feedstocks | 0.013 | 0.011 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.015 | 0.015 |
| Residual Fuel | 0.012 | 0.012 | 0.011 | 0.012 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 |
| Motor Gasoline 2/ | 0.016 | 0.016 | 0.017 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 0.018 | 0.018 |
| Other Petroleum 5/ | 0.658 | 0.654 | 0.668 | 0.658 | 0.687 | 0.679 | 0.677 | 0.677 | 0.671 | 0.675 | 0.692 | 0.699 | 0.706 |
| Petroleum Subtotal | 0.822 | 0.819 | 0.830 | 0.823 | 0.889 | 0.882 | 0.884 | 0.888 | 0.884 | 0.894 | 0.920 | 0.936 | 0.950 |
| Natural Gas | 1.353 | 1.240 | 1.338 | 1.356 | 1.243 | 1.248 | 1.263 | 1.282 | 1.294 | 1.316 | 1.343 | 1.369 | 1.393 |
| Lease and Plant Fuel 6/ | 0.343 | 0.352 | 0.337 | 0.344 | 0.360 | 0.368 | 0.371 | 0.372 | 0.374 | 0.377 | 0.381 | 0.385 | 0.389 |
| Natural Gas Subtotal | 1.696 | 1.592 | 1.675 | 1.700 | 1.603 | 1.616 | 1.634 | 1.653 | 1.669 | 1.694 | 1.723 | 1.754 | 1.782 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 0.070 | 0.068 | 0.065 | 0.066 | 0.068 | 0.069 | 0.069 | 0.070 | 0.072 | 0.072 | 0.073 | 0.074 | 0.075 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 0.070 | 0.068 | 0.065 | 0.066 | 0.068 | 0.069 | 0.069 | 0.070 | 0.072 | 0.072 | 0.073 | 0.074 | 0.075 |
| Renewable Energy 7/ | 0.276 | 0.266 | 0.264 | 0.275 | 0.284 | 0.291 | 0.297 | 0.306 | 0.314 | 0.325 | 0.337 | 0.349 | 0.359 |
| Electricity | 0.416 | 0.392 | 0.373 | 0.391 | 0.412 | 0.419 | 0.429 | 0.440 | 0.453 | 0.463 | 0.478 | 0.490 | 0.501 |
| Delivered Energy | 3.280 | 3.137 | 3.207 | 3.256 | 3.255 | 3.276 | 3.314 | 3.357 | 3.392 | 3.447 | 3.531 | 3.604 | 3.668 |
| Electricity Related Losses | 0.654 | 0.557 | 0.563 | 0.573 | 0.607 | 0.628 | 0.650 | 0.665 | 0.691 | 0.711 | 0.736 | 0.757 | 0.774 |

**Table 9. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Pacific**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 3.934 | 3.694 | 3.770 | 3.830 | 3.863 | 3.904 | 3.963 | 4.022 | 4.083 | 4.159 | 4.267 | 4.361 | 4.442 |
| | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.590 | 0.601 | 0.598 | 0.624 | 0.647 | 0.666 | 0.690 | 0.714 | 0.738 | 0.764 | 0.792 | 0.818 | 0.841 |
| Jet Fuel 9/ | 0.940 | 0.900 | 0.883 | 0.880 | 0.879 | 0.899 | 0.927 | 0.952 | 0.981 | 1.013 | 1.040 | 1.068 | 1.098 |
| Motor Gasoline 2/ | 2.369 | 2.401 | 2.459 | 2.506 | 2.554 | 2.617 | 2.688 | 2.764 | 2.844 | 2.924 | 3.007 | 3.085 | 3.160 |
| Residual Fuel | 0.295 | 0.278 | 0.261 | 0.271 | 0.271 | 0.272 | 0.273 | 0.274 | 0.275 | 0.276 | 0.277 | 0.277 | 0.278 |
| Liquefied Petroleum Gas | 0.003 | 0.003 | 0.004 | 0.005 | 0.005 | 0.006 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.009 | 0.010 |
| Other Petroleum 10/ | 0.036 | 0.039 | 0.039 | 0.040 | 0.040 | 0.040 | 0.040 | 0.040 | 0.041 | 0.041 | 0.042 | 0.042 | 0.043 |
| Petroleum Subtotal | 4.233 | 4.221 | 4.245 | 4.324 | 4.397 | 4.501 | 4.624 | 4.752 | 4.887 | 5.026 | 5.166 | 5.300 | 5.430 |
| Pipeline Fuel Natural Gas | 0.036 | 0.035 | 0.032 | 0.033 | 0.033 | 0.035 | 0.037 | 0.038 | 0.041 | 0.043 | 0.046 | 0.047 | 0.049 |
| Compressed Natural Gas | 0.001 | 0.002 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.006 | 0.007 | 0.008 | 0.009 | 0.010 | 0.010 |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 0.012 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.015 | 0.015 | 0.015 | 0.016 | 0.016 |
| Delivered Energy | 4.282 | 4.270 | 4.292 | 4.373 | 4.448 | 4.554 | 4.681 | 4.811 | 4.950 | 5.092 | 5.237 | 5.373 | 5.506 |
| Electricity Related Losses | 0.018 | 0.017 | 0.019 | 0.019 | 0.019 | 0.020 | 0.021 | 0.021 | 0.022 | 0.023 | 0.024 | 0.025 | 0.025 |
| Total | 4.300 | 4.287 | 4.311 | 4.392 | 4.467 | 4.574 | 4.701 | 4.833 | 4.972 | 5.115 | 5.260 | 5.398 | 5.531 |
| | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | |
| Distillate Fuel | 0.723 | 0.739 | 0.731 | 0.759 | 0.784 | 0.805 | 0.831 | 0.858 | 0.884 | 0.913 | 0.943 | 0.971 | 0.996 |
| Kerosene | 0.004 | 0.005 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Jet Fuel 9/ | 0.940 | 0.900 | 0.883 | 0.880 | 0.879 | 0.899 | 0.927 | 0.952 | 0.981 | 1.013 | 1.040 | 1.068 | 1.098 |
| Liquefied Petroleum Gas | 0.070 | 0.069 | 0.073 | 0.071 | 0.122 | 0.123 | 0.125 | 0.126 | 0.125 | 0.128 | 0.135 | 0.142 | 0.148 |
| Motor Gasoline 2/ | 2.389 | 2.421 | 2.480 | 2.525 | 2.573 | 2.636 | 2.707 | 2.784 | 2.864 | 2.945 | 3.028 | 3.106 | 3.181 |
| Petrochemical Feedstocks | 0.013 | 0.011 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.015 | 0.015 |
| Residual Fuel | 0.310 | 0.293 | 0.274 | 0.284 | 0.281 | 0.280 | 0.282 | 0.283 | 0.284 | 0.285 | 0.286 | 0.287 | 0.288 |
| Other Petroleum 12/ | 0.693 | 0.690 | 0.705 | 0.696 | 0.717 | 0.709 | 0.708 | 0.708 | 0.703 | 0.707 | 0.724 | 0.732 | 0.739 |
| Petroleum Subtotal | 5.142 | 5.128 | 5.162 | 5.231 | 5.373 | 5.469 | 5.596 | 5.728 | 5.860 | 6.008 | 6.175 | 6.326 | 6.469 |
| Natural Gas | 2.390 | 2.297 | 2.410 | 2.467 | 2.378 | 2.392 | 2.421 | 2.453 | 2.479 | 2.509 | 2.549 | 2.592 | 2.635 |
| Lease and Plant Fuel 6/ | 0.343 | 0.352 | 0.337 | 0.344 | 0.360 | 0.368 | 0.371 | 0.372 | 0.374 | 0.377 | 0.381 | 0.385 | 0.389 |
| Pipeline Natural Gas | 0.036 | 0.035 | 0.032 | 0.033 | 0.033 | 0.035 | 0.037 | 0.038 | 0.041 | 0.043 | 0.046 | 0.047 | 0.049 |
| Natural Gas Subtotal | 2.768 | 2.684 | 2.780 | 2.843 | 2.771 | 2.795 | 2.828 | 2.863 | 2.894 | 2.930 | 2.975 | 3.023 | 3.073 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 0.080 | 0.078 | 0.075 | 0.076 | 0.078 | 0.079 | 0.079 | 0.081 | 0.082 | 0.083 | 0.084 | 0.085 | 0.086 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 0.080 | 0.078 | 0.075 | 0.076 | 0.078 | 0.079 | 0.079 | 0.081 | 0.082 | 0.083 | 0.084 | 0.085 | 0.086 |
| Renewable Energy 13/ | 0.362 | 0.352 | 0.352 | 0.363 | 0.373 | 0.380 | 0.387 | 0.396 | 0.405 | 0.416 | 0.430 | 0.442 | 0.453 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity | 1.489 | 1.456 | 1.435 | 1.497 | 1.555 | 1.589 | 1.623 | 1.657 | 1.693 | 1.725 | 1.762 | 1.801 | 1.843 |
| Delivered Energy | 9.841 | 9.698 | 9.804 | 10.011 | 10.149 | 10.311 | 10.513 | 10.723 | 10.934 | 11.161 | 11.425 | 11.676 | 11.923 |
| Electricity Related Losses | 2.342 | 2.067 | 2.168 | 2.193 | 2.293 | 2.381 | 2.459 | 2.502 | 2.582 | 2.647 | 2.715 | 2.781 | 2.846 |
| Total | 12.184 | 11.765 | 11.971 | 12.204 | 12.442 | 12.692 | 12.973 | 13.225 | 13.516 | 13.808 | 14.140 | 14.457 | 14.769 |
| | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.013 | 0.051 | 0.007 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | 0.011 | 0.024 | 0.039 | 0.027 |
| Residual Fuel | 0.108 | 0.080 | 0.053 | 0.061 | 0.063 | 0.059 | 0.058 | 0.060 | 0.061 | 0.062 | 0.064 | 0.065 | 0.066 |
| Petroleum Subtotal | 0.121 | 0.131 | 0.059 | 0.069 | 0.071 | 0.067 | 0.067 | 0.069 | 0.070 | 0.074 | 0.088 | 0.104 | 0.093 |
| Natural Gas | 1.093 | 1.178 | 1.087 | 0.954 | 1.051 | 1.117 | 1.149 | 1.199 | 1.306 | 1.382 | 1.469 | 1.536 | 1.651 |
| Steam Coal | 0.187 | 0.185 | 0.150 | 0.150 | 0.155 | 0.158 | 0.161 | 0.164 | 0.163 | 0.163 | 0.163 | 0.163 | 0.163 |
| Nuclear Power | 0.440 | 0.448 | 0.450 | 0.450 | 0.452 | 0.456 | 0.460 | 0.460 | 0.461 | 0.462 | 0.462 | 0.463 | 0.464 |
| Renewable Energy/Other 15/ | 2.024 | 1.668 | 1.968 | 2.209 | 2.248 | 2.304 | 2.340 | 2.370 | 2.389 | 2.396 | 2.414 | 2.432 | 2.438 |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 3.832 | 3.523 | 3.603 | 3.690 | 3.848 | 3.970 | 4.083 | 4.158 | 4.276 | 4.372 | 4.478 | 4.582 | 4.689 |

**Table 9. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Pacific**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | |
| Distillate Fuel | 0.736 | 0.790 | 0.738 | 0.767 | 0.792 | 0.814 | 0.839 | 0.867 | 0.894 | 0.924 | 0.967 | 1.011 | 1.023 |
| Kerosene | 0.004 | 0.005 | 0.003 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| Jet Fuel 9/ | 0.940 | 0.900 | 0.883 | 0.880 | 0.879 | 0.899 | 0.927 | 0.952 | 0.981 | 1.013 | 1.040 | 1.068 | 1.098 |
| Liquefied Petroleum Gas | 0.070 | 0.069 | 0.073 | 0.071 | 0.122 | 0.123 | 0.125 | 0.126 | 0.125 | 0.128 | 0.135 | 0.142 | 0.148 |
| Motor Gasoline 2/ | 2.389 | 2.421 | 2.480 | 2.525 | 2.573 | 2.636 | 2.707 | 2.784 | 2.864 | 2.945 | 3.028 | 3.106 | 3.181 |
| Petrochemical Feedstocks | 0.013 | 0.011 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.015 | 0.015 |
| Residual Fuel | 0.418 | 0.372 | 0.327 | 0.345 | 0.344 | 0.339 | 0.340 | 0.343 | 0.345 | 0.348 | 0.350 | 0.352 | 0.354 |
| Other Petroleum 12/ | 0.693 | 0.690 | 0.705 | 0.696 | 0.717 | 0.709 | 0.708 | 0.708 | 0.703 | 0.707 | 0.724 | 0.732 | 0.739 |
| Petroleum Subtotal | 5.263 | 5.259 | 5.221 | 5.300 | 5.444 | 5.536 | 5.663 | 5.796 | 5.930 | 6.082 | 6.263 | 6.430 | 6.562 |
| Natural Gas | 3.483 | 3.475 | 3.498 | 3.421 | 3.429 | 3.509 | 3.570 | 3.652 | 3.785 | 3.891 | 4.018 | 4.128 | 4.286 |
| Lease and Plant Fuel 6/ | 0.343 | 0.352 | 0.337 | 0.344 | 0.360 | 0.368 | 0.371 | 0.372 | 0.374 | 0.377 | 0.381 | 0.385 | 0.389 |
| Pipeline Natural Gas | 0.036 | 0.035 | 0.032 | 0.033 | 0.033 | 0.035 | 0.037 | 0.038 | 0.041 | 0.043 | 0.046 | 0.047 | 0.049 |
| Natural Gas Subtotal | 3.861 | 3.862 | 3.868 | 3.797 | 3.822 | 3.912 | 3.977 | 4.062 | 4.200 | 4.312 | 4.444 | 4.560 | 4.724 |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Steam Coal | 0.267 | 0.263 | 0.224 | 0.226 | 0.232 | 0.237 | 0.241 | 0.245 | 0.245 | 0.246 | 0.247 | 0.248 | 0.249 |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Coal Subtotal | 0.267 | 0.263 | 0.224 | 0.226 | 0.232 | 0.237 | 0.241 | 0.245 | 0.245 | 0.246 | 0.247 | 0.248 | 0.249 |
| Nuclear Power | 0.440 | 0.448 | 0.450 | 0.450 | 0.452 | 0.456 | 0.460 | 0.460 | 0.461 | 0.462 | 0.462 | 0.463 | 0.464 |
| Renewable Energy 16/ | 2.386 | 2.019 | 2.320 | 2.572 | 2.620 | 2.684 | 2.727 | 2.765 | 2.794 | 2.812 | 2.843 | 2.873 | 2.890 |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| Total | 12.217 | 11.851 | 12.083 | 12.346 | 12.571 | 12.826 | 13.067 | 13.328 | 13.629 | 13.912 | 14.260 | 14.574 | 14.889 |
| Energy Use & Related Statistics | | | | | | | | | | | | | |
| Delivered Energy Use | 9.841 | 9.698 | 9.804 | 10.011 | 10.149 | 10.311 | 10.513 | 10.723 | 10.934 | 11.161 | 11.425 | 11.676 | 11.923 |
| Total Energy Use | 12.184 | 11.765 | 11.971 | 12.204 | 12.442 | 12.692 | 12.973 | 13.225 | 13.516 | 13.808 | 14.140 | 14.457 | 14.769 |
| Population (millions) | 44.651 | 45.175 | 45.693 | 46.215 | 46.741 | 47.271 | 47.799 | 48.328 | 48.862 | 49.402 | 49.943 | 50.487 | 51.036 |
| US GDP (billion 1996 dollars) | 9191 | 9215 | 9440 | 9743 | 10074 | 10361 | 10667 | 11017 | 11408 | 11810 | 12258 | 12671 | 13082 |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1578.2 | 1558.6 | 1536.2 | 1567.9 | 1597.2 | 1623.7 | 1662.3 | 1699.7 | 1734.5 | 1765.8 | 1800.5 | 1832.6 | 1862.1 |

**Table 9. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Pacific**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | | |
| Distillate Fuel | 0.022 | 0.022 | 0.021 | 0.021 | 0.021 | 0.021 | 0.020 | 0.020 | 0.020 | 0.020 | 0.019 | 0.019 | 0.019 | -0.8% |
| Kerosene | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 1.4% |
| Liquefied Petroleum Gas | 0.022 | 0.022 | 0.022 | 0.022 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | 0.021 | -1.1% |
| Petroleum Subtotal | 0.046 | 0.046 | 0.045 | 0.045 | 0.045 | 0.044 | 0.044 | 0.044 | 0.044 | 0.043 | 0.043 | 0.043 | 0.042 | -0.8% |
| Natural Gas | 0.773 | 0.780 | 0.785 | 0.793 | 0.798 | 0.806 | 0.814 | 0.825 | 0.833 | 0.842 | 0.851 | 0.860 | 0.864 | 1.2% |
| Coal | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.2% |
| Renewable Energy 1/ | 0.075 | 0.076 | 0.076 | 0.077 | 0.077 | 0.078 | 0.078 | 0.079 | 0.079 | 0.079 | 0.080 | 0.080 | 0.081 | 0.7% |
| Electricity | 0.519 | 0.523 | 0.526 | 0.531 | 0.533 | 0.537 | 0.541 | 0.547 | 0.550 | 0.554 | 0.557 | 0.562 | 0.564 | 0.9% |
| Delivered Energy | 1.415 | 1.425 | 1.435 | 1.447 | 1.454 | 1.466 | 1.479 | 1.496 | 1.506 | 1.519 | 1.532 | 1.547 | 1.553 | 1.0% |
| Electricity Related Losses | 0.798 | 0.808 | 0.806 | 0.824 | 0.822 | 0.838 | 0.856 | 0.877 | 0.874 | 0.881 | 0.879 | 0.892 | 0.888 | 1.4% |
| Total | 2.212 | 2.233 | 2.240 | 2.272 | 2.276 | 2.304 | 2.335 | 2.373 | 2.380 | 2.400 | 2.411 | 2.438 | 2.441 | 1.1% |
| Commercial | | | | | | | | | | | | | | |
| Distillate Fuel | 0.032 | 0.033 | 0.034 | 0.035 | 0.036 | 0.036 | 0.037 | 0.038 | 0.039 | 0.040 | 0.041 | 0.041 | 0.042 | 2.5% |
| Residual Fuel | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.003 | -0.1% |
| Kerosene | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | -0.2% |
| Liquefied Petroleum Gas | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.7% |
| Motor Gasoline 2/ | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | -0.9% |
| Petroleum Subtotal | 0.044 | 0.045 | 0.045 | 0.046 | 0.047 | 0.048 | 0.049 | 0.050 | 0.051 | 0.052 | 0.053 | 0.054 | 0.055 | 1.8% |
| Natural Gas | 0.475 | 0.484 | 0.494 | 0.504 | 0.515 | 0.527 | 0.539 | 0.552 | 0.567 | 0.581 | 0.593 | 0.604 | 0.614 | 1.8% |
| Coal | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.012 | 0.012 | 1.2% |
| Renewable Energy 3/ | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.0% |
| Electricity | 0.834 | 0.860 | 0.884 | 0.908 | 0.934 | 0.961 | 0.990 | 1.019 | 1.048 | 1.077 | 1.107 | 1.137 | 1.167 | 2.8% |
| Delivered Energy | 1.381 | 1.416 | 1.450 | 1.486 | 1.524 | 1.565 | 1.607 | 1.650 | 1.695 | 1.739 | 1.782 | 1.824 | 1.866 | 2.4% |
| Electricity Related Losses | 1.283 | 1.329 | 1.353 | 1.411 | 1.442 | 1.501 | 1.566 | 1.634 | 1.667 | 1.715 | 1.746 | 1.803 | 1.838 | 3.3% |
| Total | 2.664 | 2.745 | 2.803 | 2.897 | 2.966 | 3.066 | 3.173 | 3.284 | 3.362 | 3.453 | 3.528 | 3.626 | 3.703 | 2.8% |
| Industrial 4/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.103 | 0.104 | 0.105 | 0.106 | 0.108 | 0.109 | 0.111 | 0.113 | 0.115 | 0.116 | 0.118 | 0.120 | 0.122 | 1.2% |
| Liquefied Petroleum Gas | 0.115 | 0.119 | 0.121 | 0.124 | 0.122 | 0.122 | 0.126 | 0.129 | 0.128 | 0.128 | 0.126 | 0.129 | 0.129 | 5.7% |
| Petrochemical Feedstocks | 0.015 | 0.015 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 1.9% |
| Residual Fuel | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.009 | -1.4% |
| Motor Gasoline 2/ | 0.019 | 0.019 | 0.019 | 0.019 | 0.019 | 0.020 | 0.020 | 0.020 | 0.021 | 0.021 | 0.021 | 0.021 | 0.022 | 1.2% |
| Other Petroleum 5/ | 0.706 | 0.709 | 0.704 | 0.710 | 0.717 | 0.722 | 0.727 | 0.734 | 0.744 | 0.754 | 0.762 | 0.767 | 0.777 | 0.7% |
| Petroleum Subtotal | 0.957 | 0.965 | 0.965 | 0.975 | 0.982 | 0.989 | 1.000 | 1.012 | 1.023 | 1.036 | 1.044 | 1.054 | 1.067 | 1.1% |
| Natural Gas | 1.413 | 1.432 | 1.454 | 1.463 | 1.485 | 1.510 | 1.537 | 1.561 | 1.582 | 1.611 | 1.641 | 1.671 | 1.695 | 1.3% |
| Lease and Plant Fuel 6/ | 0.393 | 0.398 | 0.403 | 0.406 | 0.411 | 0.414 | 0.416 | 0.418 | 0.488 | 0.560 | 0.564 | 0.568 | 0.587 | 2.2% |
| Natural Gas Subtotal | 1.806 | 1.830 | 1.857 | 1.869 | 1.896 | 1.924 | 1.953 | 1.979 | 2.070 | 2.171 | 2.205 | 2.239 | 2.282 | 1.5% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 0.075 | 0.076 | 0.077 | 0.078 | 0.079 | 0.079 | 0.080 | 0.081 | 0.082 | 0.083 | 0.084 | 0.085 | 0.086 | 1.0% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 0.075 | 0.076 | 0.077 | 0.078 | 0.079 | 0.079 | 0.080 | 0.081 | 0.082 | 0.083 | 0.084 | 0.085 | 0.086 | 1.0% |
| Renewable Energy 7/ | 0.369 | 0.379 | 0.388 | 0.395 | 0.404 | 0.413 | 0.423 | 0.432 | 0.441 | 0.451 | 0.461 | 0.472 | 0.481 | 2.5% |
| Electricity | 0.512 | 0.523 | 0.531 | 0.538 | 0.547 | 0.556 | 0.566 | 0.575 | 0.584 | 0.595 | 0.607 | 0.620 | 0.631 | 2.0% |
| Delivered Energy | 3.719 | 3.773 | 3.817 | 3.855 | 3.907 | 3.962 | 4.023 | 4.079 | 4.201 | 4.337 | 4.401 | 4.469 | 4.546 | 1.6% |
| Electricity Related Losses | 0.787 | 0.808 | 0.813 | 0.836 | 0.844 | 0.868 | 0.895 | 0.922 | 0.929 | 0.948 | 0.958 | 0.983 | 0.994 | 2.4% |

**Table 9. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Pacific**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 4.506 | 4.582 | 4.630 | 4.692 | 4.751 | 4.830 | 4.918 | 5.001 | 5.130 | 5.284 | 5.358 | 5.451 | 5.540 | 1.7% |
| | | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 0.861 | 0.881 | 0.897 | 0.912 | 0.929 | 0.947 | 0.966 | 0.983 | 1.000 | 1.020 | 1.040 | 1.063 | 1.083 | 2.5% |
| Jet Fuel 9/ | 1.130 | 1.162 | 1.194 | 1.225 | 1.257 | 1.290 | 1.321 | 1.352 | 1.381 | 1.412 | 1.443 | 1.473 | 1.505 | 2.2% |
| Motor Gasoline 2/ | 3.233 | 3.301 | 3.365 | 3.427 | 3.487 | 3.549 | 3.616 | 3.673 | 3.730 | 3.790 | 3.856 | 3.929 | 3.996 | 2.1% |
| Residual Fuel | 0.279 | 0.280 | 0.280 | 0.281 | 0.282 | 0.283 | 0.284 | 0.285 | 0.286 | 0.287 | 0.288 | 0.288 | 0.289 | 0.2% |
| Liquefied Petroleum Gas | 0.010 | 0.011 | 0.011 | 0.012 | 0.012 | 0.013 | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 6.9% |
| Other Petroleum 10/ | 0.043 | 0.044 | 0.044 | 0.045 | 0.046 | 0.046 | 0.047 | 0.047 | 0.048 | 0.048 | 0.048 | 0.049 | 0.049 | 1.0% |
| Petroleum Subtotal | 5.556 | 5.678 | 5.792 | 5.902 | 6.013 | 6.128 | 6.247 | 6.353 | 6.457 | 6.570 | 6.689 | 6.817 | 6.937 | 2.1% |
| Pipeline Fuel Natural Gas | 0.050 | 0.051 | 0.052 | 0.055 | 0.057 | 0.058 | 0.059 | 0.059 | 0.099 | 0.141 | 0.141 | 0.142 | 0.152 | 6.4% |
| Compressed Natural Gas | 0.011 | 0.012 | 0.012 | 0.013 | 0.013 | 0.014 | 0.014 | 0.014 | 0.015 | 0.015 | 0.015 | 0.016 | 0.016 | 10.1% |
| Renewable Energy (E85) 11/ | 0.000 | 0.000 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 9.2% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 0.017 | 0.017 | 0.018 | 0.018 | 0.019 | 0.020 | 0.020 | 0.021 | 0.022 | 0.022 | 0.023 | 0.024 | 0.024 | 3.0% |
| Delivered Energy | 5.635 | 5.759 | 5.875 | 5.989 | 6.103 | 6.219 | 6.341 | 6.448 | 6.594 | 6.749 | 6.870 | 7.000 | 7.131 | 2.2% |
| Electricity Related Losses | 0.026 | 0.027 | 0.027 | 0.029 | 0.029 | 0.031 | 0.032 | 0.034 | 0.034 | 0.036 | 0.036 | 0.038 | 0.038 | 3.4% |
| Total | 5.661 | 5.786 | 5.903 | 6.018 | 6.132 | 6.250 | 6.373 | 6.482 | 6.628 | 6.784 | 6.906 | 7.037 | 7.170 | 2.2% |
| | | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | | |
| Distillate Fuel | 1.018 | 1.039 | 1.058 | 1.075 | 1.094 | 1.113 | 1.134 | 1.154 | 1.173 | 1.195 | 1.218 | 1.243 | 1.266 | 2.3% |
| Kerosene | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.6% |
| Jet Fuel 9/ | 1.130 | 1.162 | 1.194 | 1.225 | 1.257 | 1.290 | 1.321 | 1.352 | 1.381 | 1.412 | 1.443 | 1.473 | 1.505 | 2.2% |
| Liquefied Petroleum Gas | 0.153 | 0.157 | 0.160 | 0.163 | 0.161 | 0.162 | 0.166 | 0.169 | 0.169 | 0.169 | 0.168 | 0.171 | 0.171 | 3.8% |
| Motor Gasoline 2/ | 3.255 | 3.323 | 3.387 | 3.450 | 3.510 | 3.572 | 3.639 | 3.697 | 3.753 | 3.814 | 3.881 | 3.953 | 4.021 | 2.1% |
| Petrochemical Feedstocks | 0.015 | 0.015 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 1.9% |
| Residual Fuel | 0.289 | 0.290 | 0.291 | 0.291 | 0.292 | 0.293 | 0.295 | 0.296 | 0.296 | 0.298 | 0.299 | 0.300 | 0.301 | 0.1% |
| Other Petroleum 12/ | 0.739 | 0.743 | 0.738 | 0.745 | 0.753 | 0.758 | 0.764 | 0.770 | 0.781 | 0.791 | 0.799 | 0.804 | 0.815 | 0.7% |
| Petroleum Subtotal | 6.603 | 6.734 | 6.848 | 6.969 | 7.087 | 7.209 | 7.340 | 7.459 | 7.575 | 7.701 | 7.829 | 7.967 | 8.102 | 1.9% |
| Natural Gas | 2.672 | 2.708 | 2.746 | 2.773 | 2.811 | 2.856 | 2.904 | 2.952 | 2.997 | 3.049 | 3.101 | 3.151 | 3.189 | 1.4% |
| Lease and Plant Fuel 6/ | 0.393 | 0.398 | 0.403 | 0.406 | 0.411 | 0.414 | 0.416 | 0.418 | 0.488 | 0.560 | 0.564 | 0.568 | 0.587 | 2.2% |
| Pipeline Natural Gas | 0.050 | 0.051 | 0.052 | 0.055 | 0.057 | 0.058 | 0.059 | 0.059 | 0.099 | 0.141 | 0.141 | 0.142 | 0.152 | 6.4% |
| Natural Gas Subtotal | 3.115 | 3.157 | 3.200 | 3.234 | 3.278 | 3.328 | 3.379 | 3.430 | 3.584 | 3.750 | 3.806 | 3.861 | 3.928 | 1.6% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 0.086 | 0.088 | 0.089 | 0.089 | 0.090 | 0.091 | 0.092 | 0.093 | 0.094 | 0.095 | 0.096 | 0.097 | 0.099 | 1.0% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 0.086 | 0.088 | 0.089 | 0.089 | 0.090 | 0.091 | 0.092 | 0.093 | 0.094 | 0.095 | 0.096 | 0.097 | 0.099 | 1.0% |
| Renewable Energy 13/ | 0.463 | 0.474 | 0.483 | 0.491 | 0.500 | 0.510 | 0.520 | 0.530 | 0.539 | 0.550 | 0.560 | 0.571 | 0.580 | 2.1% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity | 1.882 | 1.922 | 1.959 | 1.995 | 2.032 | 2.074 | 2.118 | 2.162 | 2.204 | 2.248 | 2.294 | 2.343 | 2.388 | 2.1% |
| Delivered Energy | 12.149 | 12.373 | 12.578 | 12.778 | 12.988 | 13.211 | 13.449 | 13.673 | 13.995 | 14.343 | 14.584 | 14.839 | 15.096 | 1.9% |
| Electricity Related Losses | 2.893 | 2.973 | 2.999 | 3.101 | 3.137 | 3.238 | 3.349 | 3.466 | 3.505 | 3.579 | 3.620 | 3.714 | 3.759 | 2.5% |
| Total | 15.043 | 15.346 | 15.577 | 15.878 | 16.125 | 16.449 | 16.798 | 17.139 | 17.501 | 17.922 | 18.204 | 18.553 | 18.854 | 2.0% |
| | | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.013 | 0.032 | 0.029 | 0.031 | 0.028 | 0.026 | 0.020 | 0.021 | 0.050 | 0.017 | 0.041 | 0.074 | 0.092 | 2.5% |
| Residual Fuel | 0.068 | 0.069 | 0.071 | 0.072 | 0.073 | 0.074 | 0.076 | 0.078 | 0.080 | 0.081 | 0.083 | 0.086 | 0.087 | 0.4% |
| Petroleum Subtotal | 0.081 | 0.102 | 0.100 | 0.103 | 0.101 | 0.100 | 0.096 | 0.099 | 0.130 | 0.098 | 0.123 | 0.159 | 0.179 | 1.3% |
| Natural Gas | 1.724 | 1.787 | 1.833 | 1.914 | 1.968 | 2.063 | 2.149 | 2.237 | 2.249 | 2.361 | 2.393 | 2.452 | 2.471 | 3.1% |
| Steam Coal | 0.163 | 0.163 | 0.164 | 0.164 | 0.164 | 0.164 | 0.164 | 0.164 | 0.164 | 0.164 | 0.164 | 0.164 | 0.165 | -0.5% |
| Nuclear Power | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.2% |
| Renewable Energy/Other 15/ | 2.454 | 2.481 | 2.506 | 2.552 | 2.561 | 2.594 | 2.651 | 2.734 | 2.758 | 2.784 | 2.804 | 2.850 | 2.895 | 2.3% |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Total | 4.775 | 4.895 | 4.958 | 5.096 | 5.170 | 5.311 | 5.467 | 5.628 | 5.709 | 5.828 | 5.913 | 6.057 | 6.146 | 2.3% |

**Table 9. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Pacific**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | | |
| Distillate Fuel | 1.031 | 1.072 | 1.087 | 1.106 | 1.122 | 1.139 | 1.155 | 1.175 | 1.223 | 1.212 | 1.258 | 1.317 | 1.358 | 2.3% |
| Kerosene | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.6% |
| Jet Fuel 9/ | 1.130 | 1.162 | 1.194 | 1.225 | 1.257 | 1.290 | 1.321 | 1.352 | 1.381 | 1.412 | 1.443 | 1.473 | 1.505 | 2.2% |
| Liquefied Petroleum Gas | 0.153 | 0.157 | 0.160 | 0.163 | 0.161 | 0.162 | 0.166 | 0.169 | 0.169 | 0.169 | 0.168 | 0.171 | 0.171 | 3.8% |
| Motor Gasoline 2/ | 3.255 | 3.323 | 3.387 | 3.450 | 3.510 | 3.572 | 3.639 | 3.697 | 3.753 | 3.814 | 3.881 | 3.953 | 4.021 | 2.1% |
| Petrochemical Feedstocks | 0.015 | 0.015 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.018 | 1.9% |
| Residual Fuel | 0.356 | 0.359 | 0.361 | 0.363 | 0.366 | 0.368 | 0.371 | 0.373 | 0.376 | 0.379 | 0.381 | 0.385 | 0.388 | 0.2% |
| Other Petroleum 12/ | 0.739 | 0.743 | 0.738 | 0.745 | 0.753 | 0.758 | 0.764 | 0.770 | 0.781 | 0.791 | 0.799 | 0.804 | 0.815 | 0.7% |
| Petroleum Subtotal | 6.684 | 6.835 | 6.948 | 7.071 | 7.189 | 7.310 | 7.437 | 7.558 | 7.705 | 7.799 | 7.952 | 8.126 | 8.281 | 1.9% |
| Natural Gas | 4.397 | 4.495 | 4.579 | 4.686 | 4.780 | 4.918 | 5.053 | 5.189 | 5.245 | 5.410 | 5.494 | 5.603 | 5.660 | 2.1% |
| Lease and Plant Fuel 6/ | 0.393 | 0.398 | 0.403 | 0.406 | 0.411 | 0.414 | 0.416 | 0.418 | 0.488 | 0.560 | 0.564 | 0.568 | 0.587 | 2.2% |
| Pipeline Natural Gas | 0.050 | 0.051 | 0.052 | 0.055 | 0.057 | 0.058 | 0.059 | 0.059 | 0.099 | 0.141 | 0.141 | 0.142 | 0.152 | 6.4% |
| Natural Gas Subtotal | 4.840 | 4.944 | 5.034 | 5.148 | 5.247 | 5.391 | 5.528 | 5.667 | 5.832 | 6.110 | 6.199 | 6.312 | 6.399 | 2.1% |
| Metallurgical Coal | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Steam Coal | 0.250 | 0.251 | 0.252 | 0.253 | 0.254 | 0.255 | 0.256 | 0.257 | 0.258 | 0.259 | 0.261 | 0.262 | 0.263 | 0.0% |
| Net Coal Coke Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Coal Subtotal | 0.250 | 0.251 | 0.252 | 0.253 | 0.254 | 0.255 | 0.256 | 0.257 | 0.258 | 0.259 | 0.261 | 0.262 | 0.263 | 0.0% |
| Nuclear Power | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.465 | 0.2% |
| Renewable Energy 16/ | 2.917 | 2.954 | 2.988 | 3.042 | 3.060 | 3.103 | 3.171 | 3.263 | 3.297 | 3.333 | 3.363 | 3.421 | 3.475 | 2.3% |
| Liquid Hydrogen | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Electricity Imports | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | N/A |
| Total | 15.155 | 15.450 | 15.687 | 15.980 | 16.214 | 16.524 | 16.856 | 17.210 | 17.557 | 17.966 | 18.240 | 18.586 | 18.883 | 2.0% |
| Energy Use & Related Statistics | | | | | | | | | | | | | | |
| Delivered Energy Use | 12.149 | 12.373 | 12.578 | 12.778 | 12.988 | 13.211 | 13.449 | 13.673 | 13.995 | 14.343 | 14.584 | 14.839 | 15.096 | 1.9% |
| Total Energy Use | 15.043 | 15.346 | 15.577 | 15.878 | 16.125 | 16.449 | 16.798 | 17.139 | 17.501 | 17.922 | 18.204 | 18.553 | 18.854 | 2.0% |
| Population (millions) | 51.590 | 52.147 | 52.707 | 53.267 | 53.829 | 54.392 | 54.954 | 55.515 | 56.077 | 56.642 | 57.209 | 57.778 | 58.354 | 1.1% |
| US GDP (billion 1996 dollars) | 13480 | 13893 | 14288 | 14681 | 15101 | 15540 | 16013 | 16450 | 16888 | 17363 | 17858 | 18389 | 18917 | 3.0% |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1889.2 | 1915.7 | 1944.2 | 1970.2 | 1996.8 | 2024.6 | 2055.5 | 2082.5 | 2108.3 | 2139.7 | 2170.8 | 2204.3 | 2236.9 | 1.5% |

**Table 9. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**Pacific**

1/ Includes wood used for residential heating. See Table A18 estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.
2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.
3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.
4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.
5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.
6/ Represents natural gas used in the field gathering and processing plant machinery.
7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.
8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.
9/ Includes only kerosene type.
10/ Includes aviation gasoline and lubricants.
11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.
13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.
16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.
Sources: 2000 and 2001 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). 2000 and 2001 population and gross domestic product: Global Insight macroeconomic model CTL0802. 2000 and 2001 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2001, DOE/EIA-0573(2001) (Washington, DC, December 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 10. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**United States**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | |
| Distillate Fuel | 0.86 | 0.91 | 0.87 | 0.94 | 0.94 | 0.94 | 0.94 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 | 0.90 |
| Kerosene | 0.09 | 0.10 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| Liquefied Petroleum Gas | 0.54 | 0.50 | 0.53 | 0.49 | 0.49 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.47 | 0.47 | 0.47 |
| Petroleum Subtotal | 1.50 | 1.50 | 1.47 | 1.51 | 1.50 | 1.50 | 1.50 | 1.49 | 1.49 | 1.47 | 1.46 | 1.45 | 1.44 |
| Natural Gas | 5.12 | 4.94 | 5.05 | 5.32 | 5.42 | 5.45 | 5.51 | 5.56 | 5.61 | 5.62 | 5.66 | 5.69 | 5.75 |
| Coal | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Renewable Energy 1/ | 0.41 | 0.39 | 0.39 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 |
| Electricity | 4.07 | 4.10 | 4.20 | 4.37 | 4.46 | 4.53 | 4.61 | 4.69 | 4.79 | 4.85 | 4.93 | 5.00 | 5.07 |
| Delivered Energy | 11.11 | 10.94 | 11.13 | 11.62 | 11.81 | 11.90 | 12.05 | 12.17 | 12.31 | 12.38 | 12.47 | 12.56 | 12.69 |
| Electricity Related Losses | 9.26 | 9.15 | 9.17 | 9.45 | 9.60 | 9.74 | 9.88 | 10.03 | 10.16 | 10.21 | 10.28 | 10.32 | 10.39 |
| Total | 20.37 | 20.09 | 20.30 | 21.07 | 21.41 | 21.64 | 21.93 | 22.20 | 22.47 | 22.59 | 22.75 | 22.88 | 23.07 |
| Commercial | | | | | | | | | | | | | |
| Distillate Fuel | 0.47 | 0.46 | 0.45 | 0.45 | 0.46 | 0.46 | 0.47 | 0.47 | 0.48 | 0.48 | 0.48 | 0.48 | 0.49 |
| Residual Fuel | 0.09 | 0.09 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 |
| Kerosene | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Liquefied Petroleum Gas | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Motor Gasoline 2/ | 0.05 | 0.05 | 0.05 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Petroleum Subtotal | 0.73 | 0.71 | 0.65 | 0.63 | 0.64 | 0.65 | 0.66 | 0.66 | 0.67 | 0.67 | 0.67 | 0.68 | 0.68 |
| Natural Gas | 3.30 | 3.33 | 3.32 | 3.47 | 3.57 | 3.62 | 3.67 | 3.71 | 3.74 | 3.77 | 3.80 | 3.83 | 3.87 |
| Coal | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 |
| Renewable Energy 3/ | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Electricity | 3.96 | 4.09 | 4.20 | 4.26 | 4.38 | 4.49 | 4.59 | 4.70 | 4.81 | 4.91 | 5.02 | 5.13 | 5.25 |
| Delivered Energy | 8.19 | 8.32 | 8.36 | 8.55 | 8.78 | 8.95 | 9.12 | 9.27 | 9.41 | 9.55 | 9.69 | 9.84 | 10.00 |
| Electricity Related Losses | 9.01 | 9.12 | 9.15 | 9.21 | 9.43 | 9.64 | 9.84 | 10.04 | 10.19 | 10.33 | 10.46 | 10.61 | 10.75 |
| Total | 17.20 | 17.44 | 17.51 | 17.77 | 18.21 | 18.59 | 18.96 | 19.31 | 19.60 | 19.88 | 20.15 | 20.45 | 20.75 |
| Industrial 4/ | | | | | | | | | | | | | |
| Distillate Fuel | 1.12 | 1.13 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.15 | 1.17 | 1.19 | 1.21 | 1.23 | 1.25 |
| Liquefied Petroleum Gas | 2.30 | 2.10 | 2.23 | 2.26 | 2.30 | 2.30 | 2.32 | 2.36 | 2.40 | 2.47 | 2.55 | 2.63 | 2.71 |
| Petrochemical Feedstocks | 1.32 | 1.14 | 1.21 | 1.25 | 1.27 | 1.27 | 1.29 | 1.32 | 1.35 | 1.39 | 1.43 | 1.47 | 1.51 |
| Residual Fuel | 0.24 | 0.23 | 0.19 | 0.20 | 0.17 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.19 |
| Motor Gasoline 2/ | 0.15 | 0.15 | 0.16 | 0.15 | 0.16 | 0.15 | 0.16 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 |
| Other Petroleum 5/ | 3.96 | 4.03 | 4.15 | 4.06 | 4.17 | 4.15 | 4.15 | 4.21 | 4.23 | 4.28 | 4.31 | 4.31 | 4.33 |
| Petroleum Subtotal | 9.09 | 8.79 | 9.01 | 9.02 | 9.16 | 9.14 | 9.21 | 9.37 | 9.50 | 9.68 | 9.86 | 10.01 | 10.16 |
| Natural Gas | 8.48 | 7.74 | 8.22 | 8.33 | 8.31 | 8.35 | 8.52 | 8.66 | 8.74 | 8.90 | 9.13 | 9.35 | 9.49 |
| Lease and Plant Fuel 6/ | 1.16 | 1.20 | 1.25 | 1.30 | 1.32 | 1.32 | 1.33 | 1.33 | 1.36 | 1.37 | 1.39 | 1.42 | 1.45 |
| Natural Gas Subtotal | 9.65 | 8.94 | 9.47 | 9.62 | 9.62 | 9.67 | 9.85 | 9.99 | 10.10 | 10.27 | 10.52 | 10.77 | 10.94 |
| Metallurgical Coal | 0.79 | 0.72 | 0.64 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.67 | 0.66 | 0.65 | 0.64 |
| Steam Coal | 1.46 | 1.42 | 1.35 | 1.38 | 1.39 | 1.39 | 1.39 | 1.41 | 1.42 | 1.43 | 1.44 | 1.45 | 1.46 |
| Net Coal Coke Imports | 0.07 | 0.03 | 0.02 | 0.04 | 0.05 | 0.05 | 0.06 | 0.08 | 0.09 | 0.10 | 0.11 | 0.13 | 0.14 |
| Coal Subtotal | 2.32 | 2.16 | 2.02 | 2.10 | 2.12 | 2.13 | 2.14 | 2.16 | 2.19 | 2.20 | 2.22 | 2.23 | 2.23 |
| Renewable Energy 7/ | 1.86 | 1.82 | 1.80 | 1.86 | 1.92 | 1.95 | 1.99 | 2.03 | 2.08 | 2.15 | 2.22 | 2.29 | 2.35 |
| Electricity | 3.63 | 3.39 | 3.17 | 3.33 | 3.42 | 3.47 | 3.55 | 3.65 | 3.76 | 3.84 | 3.95 | 4.05 | 4.13 |
| Delivered Energy | 26.55 | 25.10 | 25.46 | 25.94 | 26.24 | 26.36 | 26.74 | 27.20 | 27.64 | 28.14 | 28.76 | 29.34 | 29.81 |
| Electricity Related Losses | 8.27 | 7.57 | 6.92 | 7.22 | 7.37 | 7.45 | 7.60 | 7.80 | 7.97 | 8.08 | 8.23 | 8.36 | 8.46 |

**Table 10. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**United States**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 34.82 | 32.67 | 32.38 | 33.16 | 33.61 | 33.82 | 34.34 | 35.00 | 35.60 | 36.22 | 36.99 | 37.70 | 38.27 |
| | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 5.34 | 5.44 | 5.41 | 5.62 | 5.83 | 5.98 | 6.18 | 6.40 | 6.61 | 6.83 | 7.08 | 7.31 | 7.50 |
| Jet Fuel 9/ | 3.58 | 3.43 | 3.36 | 3.34 | 3.34 | 3.41 | 3.51 | 3.60 | 3.71 | 3.83 | 3.93 | 4.03 | 4.14 |
| Motor Gasoline 2/ | 16.05 | 16.26 | 16.66 | 16.96 | 17.26 | 17.66 | 18.11 | 18.59 | 19.09 | 19.58 | 20.09 | 20.57 | 21.02 |
| Residual Fuel | 0.89 | 0.84 | 0.79 | 0.81 | 0.82 | 0.82 | 0.82 | 0.82 | 0.83 | 0.83 | 0.83 | 0.83 | 0.83 |
| Liquefied Petroleum Gas | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 |
| Other Petroleum 10/ | 0.22 | 0.24 | 0.24 | 0.25 | 0.25 | 0.24 | 0.25 | 0.25 | 0.25 | 0.25 | 0.26 | 0.26 | 0.27 |
| Petroleum Subtotal | 26.09 | 26.22 | 26.48 | 27.01 | 27.52 | 28.15 | 28.91 | 29.70 | 30.53 | 31.37 | 32.24 | 33.06 | 33.83 |
| Pipeline Fuel Natural Gas | 0.66 | 0.63 | 0.58 | 0.63 | 0.65 | 0.66 | 0.68 | 0.69 | 0.72 | 0.75 | 0.78 | 0.79 | 0.81 |
| Compressed Natural Gas | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 0.07 | 0.07 |
| Renewable Energy (E85) 11/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquid Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 |
| Delivered Energy | 26.83 | 26.94 | 27.16 | 27.75 | 28.28 | 28.93 | 29.71 | 30.53 | 31.39 | 32.27 | 33.17 | 34.02 | 34.82 |
| Electricity Related Losses | 0.16 | 0.17 | 0.17 | 0.17 | 0.17 | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 |
| Total | 27.00 | 27.10 | 27.32 | 27.92 | 28.45 | 29.11 | 29.89 | 30.71 | 31.57 | 32.46 | 33.36 | 34.21 | 35.02 |
| | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | |
| Distillate Fuel | 7.79 | 7.94 | 7.81 | 8.10 | 8.32 | 8.49 | 8.72 | 8.95 | 9.19 | 9.43 | 9.69 | 9.93 | 10.14 |
| Kerosene | 0.14 | 0.15 | 0.11 | 0.12 | 0.13 | 0.12 | 0.12 | 0.12 | 0.13 | 0.12 | 0.12 | 0.12 | 0.12 |
| Jet Fuel 9/ | 3.58 | 3.43 | 3.36 | 3.34 | 3.34 | 3.41 | 3.51 | 3.60 | 3.71 | 3.83 | 3.93 | 4.03 | 4.14 |
| Liquefied Petroleum Gas | 2.95 | 2.70 | 2.87 | 2.86 | 2.91 | 2.90 | 2.93 | 2.97 | 3.01 | 3.08 | 3.16 | 3.25 | 3.33 |
| Motor Gasoline 2/ | 16.25 | 16.46 | 16.86 | 17.15 | 17.45 | 17.85 | 18.30 | 18.78 | 19.28 | 19.78 | 20.29 | 20.77 | 21.22 |
| Petrochemical Feedstocks | 1.32 | 1.14 | 1.21 | 1.25 | 1.27 | 1.27 | 1.29 | 1.32 | 1.35 | 1.39 | 1.43 | 1.47 | 1.51 |
| Residual Fuel | 1.22 | 1.15 | 1.01 | 1.05 | 1.02 | 1.03 | 1.04 | 1.04 | 1.05 | 1.06 | 1.06 | 1.07 | 1.07 |
| Other Petroleum 12/ | 4.16 | 4.24 | 4.37 | 4.29 | 4.40 | 4.37 | 4.38 | 4.43 | 4.46 | 4.51 | 4.54 | 4.55 | 4.57 |
| Petroleum Subtotal | 37.41 | 37.21 | 37.61 | 38.17 | 38.83 | 39.45 | 40.28 | 41.22 | 42.18 | 43.19 | 44.23 | 45.19 | 46.11 |
| Natural Gas | 16.91 | 16.02 | 16.61 | 17.15 | 17.33 | 17.46 | 17.75 | 17.97 | 18.14 | 18.35 | 18.65 | 18.94 | 19.17 |
| Lease and Plant Fuel 6/ | 1.16 | 1.20 | 1.25 | 1.30 | 1.32 | 1.32 | 1.33 | 1.33 | 1.36 | 1.37 | 1.39 | 1.42 | 1.45 |
| Pipeline Natural Gas | 0.66 | 0.63 | 0.58 | 0.63 | 0.65 | 0.66 | 0.68 | 0.69 | 0.72 | 0.75 | 0.78 | 0.79 | 0.81 |
| Natural Gas Subtotal | 18.74 | 17.86 | 18.43 | 19.08 | 19.30 | 19.44 | 19.76 | 20.00 | 20.22 | 20.47 | 20.82 | 21.15 | 21.44 |
| Metallurgical Coal | 0.79 | 0.72 | 0.64 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.67 | 0.66 | 0.65 | 0.64 |
| Steam Coal | 1.57 | 1.53 | 1.46 | 1.48 | 1.49 | 1.50 | 1.50 | 1.52 | 1.53 | 1.54 | 1.55 | 1.56 | 1.57 |
| Net Coal Coke Imports | 0.07 | 0.03 | 0.02 | 0.04 | 0.05 | 0.05 | 0.06 | 0.08 | 0.09 | 0.10 | 0.11 | 0.13 | 0.14 |
| Coal Subtotal | 2.42 | 2.27 | 2.12 | 2.20 | 2.22 | 2.23 | 2.24 | 2.27 | 2.30 | 2.31 | 2.33 | 2.34 | 2.35 |
| Renewable Energy 13/ | 2.38 | 2.31 | 2.30 | 2.38 | 2.43 | 2.47 | 2.50 | 2.55 | 2.60 | 2.66 | 2.74 | 2.80 | 2.87 |
| Liquid Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity | 11.73 | 11.65 | 11.65 | 12.04 | 12.34 | 12.57 | 12.84 | 13.13 | 13.44 | 13.70 | 13.99 | 14.27 | 14.56 |
| Delivered Energy | 72.68 | 71.29 | 72.11 | 73.86 | 75.12 | 76.16 | 77.62 | 79.17 | 80.75 | 82.33 | 84.10 | 85.75 | 87.31 |
| Electricity Related Losses | 26.71 | 26.01 | 25.40 | 26.05 | 26.57 | 27.01 | 27.50 | 28.04 | 28.51 | 28.81 | 29.16 | 29.49 | 29.80 |
| Total | 99.38 | 97.30 | 97.51 | 99.91 | 101.69 | 103.16 | 105.12 | 107.21 | 109.26 | 111.14 | 113.26 | 115.24 | 117.11 |
| | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | |
| Distillate Fuel | 0.11 | 0.17 | 0.06 | 0.07 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.10 | 0.11 | 0.12 | 0.11 |
| Residual Fuel | 1.01 | 1.08 | 0.31 | 0.24 | 0.27 | 0.26 | 0.27 | 0.27 | 0.31 | 0.29 | 0.31 | 0.30 | 0.34 |
| Petroleum Subtotal | 1.12 | 1.25 | 0.37 | 0.32 | 0.35 | 0.34 | 0.35 | 0.36 | 0.41 | 0.38 | 0.42 | 0.43 | 0.45 |
| Natural Gas | 5.33 | 5.40 | 5.37 | 5.55 | 5.82 | 5.80 | 5.87 | 5.86 | 6.43 | 6.72 | 6.93 | 7.23 | 7.60 |
| Steam Coal | 20.22 | 19.75 | 19.34 | 19.70 | 20.09 | 20.59 | 21.26 | 21.92 | 22.10 | 22.35 | 22.65 | 22.90 | 23.05 |
| Nuclear Power | 7.87 | 8.03 | 8.12 | 8.15 | 8.22 | 8.28 | 8.31 | 8.40 | 8.32 | 8.33 | 8.36 | 8.36 | 8.38 |
| Renewable Energy/Other 15/ | 3.58 | 3.02 | 3.58 | 4.03 | 4.12 | 4.25 | 4.32 | 4.38 | 4.42 | 4.46 | 4.50 | 4.55 | 4.58 |
| Electricity Imports | 0.31 | 0.21 | 0.27 | 0.34 | 0.31 | 0.32 | 0.23 | 0.25 | 0.28 | 0.25 | 0.29 | 0.28 | 0.29 |
| Total | 38.44 | 37.66 | 37.05 | 38.08 | 38.91 | 39.58 | 40.33 | 41.17 | 41.95 | 42.50 | 43.15 | 43.76 | 44.35 |

**Table 10. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**United States**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | |
| Distillate Fuel | 7.90 | 8.11 | 7.87 | 8.18 | 8.39 | 8.58 | 8.80 | 9.04 | 9.28 | 9.52 | 9.80 | 10.05 | 10.25 |
| Kerosene | 0.14 | 0.15 | 0.11 | 0.12 | 0.13 | 0.12 | 0.12 | 0.12 | 0.13 | 0.12 | 0.12 | 0.12 | 0.12 |
| Jet Fuel 9/ | 3.58 | 3.43 | 3.36 | 3.34 | 3.34 | 3.41 | 3.51 | 3.60 | 3.71 | 3.83 | 3.93 | 4.03 | 4.14 |
| Liquefied Petroleum Gas | 2.95 | 2.70 | 2.87 | 2.86 | 2.91 | 2.90 | 2.93 | 2.97 | 3.01 | 3.08 | 3.16 | 3.25 | 3.33 |
| Motor Gasoline 2/ | 16.25 | 16.46 | 16.86 | 17.15 | 17.45 | 17.85 | 18.30 | 18.78 | 19.28 | 19.78 | 20.29 | 20.77 | 21.22 |
| Petrochemical Feedstocks | 1.32 | 1.14 | 1.21 | 1.25 | 1.27 | 1.27 | 1.29 | 1.32 | 1.35 | 1.39 | 1.43 | 1.47 | 1.51 |
| Residual Fuel | 2.23 | 2.23 | 1.32 | 1.30 | 1.29 | 1.29 | 1.30 | 1.32 | 1.36 | 1.34 | 1.37 | 1.37 | 1.41 |
| Other Petroleum 12/ | 4.16 | 4.24 | 4.37 | 4.29 | 4.40 | 4.37 | 4.38 | 4.43 | 4.46 | 4.51 | 4.54 | 4.55 | 4.57 |
| Petroleum Subtotal | 38.53 | 38.46 | 37.99 | 38.49 | 39.18 | 39.79 | 40.63 | 41.59 | 42.58 | 43.57 | 44.65 | 45.62 | 46.56 |
| Natural Gas | 22.24 | 21.42 | 21.98 | 22.69 | 23.14 | 23.26 | 23.62 | 23.84 | 24.57 | 25.07 | 25.58 | 26.17 | 26.78 |
| Lease and Plant Fuel 6/ | 1.16 | 1.20 | 1.25 | 1.30 | 1.32 | 1.32 | 1.33 | 1.33 | 1.36 | 1.37 | 1.39 | 1.42 | 1.45 |
| Pipeline Natural Gas | 0.66 | 0.63 | 0.58 | 0.63 | 0.65 | 0.66 | 0.68 | 0.69 | 0.72 | 0.75 | 0.78 | 0.79 | 0.81 |
| Natural Gas Subtotal | 24.07 | 23.26 | 23.80 | 24.62 | 25.11 | 25.24 | 25.63 | 25.86 | 26.65 | 27.20 | 27.75 | 28.38 | 29.04 |
| Metallurgical Coal | 0.79 | 0.72 | 0.64 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.67 | 0.66 | 0.65 | 0.64 |
| Steam Coal | 21.78 | 21.28 | 20.80 | 21.18 | 21.59 | 22.08 | 22.76 | 23.43 | 23.64 | 23.89 | 24.21 | 24.47 | 24.63 |
| Net Coal Coke Imports | 0.07 | 0.03 | 0.02 | 0.04 | 0.05 | 0.05 | 0.06 | 0.08 | 0.09 | 0.10 | 0.11 | 0.13 | 0.14 |
| Coal Subtotal | 22.64 | 22.02 | 21.46 | 21.90 | 22.31 | 22.82 | 23.50 | 24.19 | 24.41 | 24.66 | 24.98 | 25.24 | 25.40 |
| Nuclear Power | 7.87 | 8.03 | 8.12 | 8.15 | 8.22 | 8.28 | 8.31 | 8.40 | 8.32 | 8.33 | 8.36 | 8.36 | 8.38 |
| Renewable Energy 16/ | 5.96 | 5.33 | 5.87 | 6.40 | 6.55 | 6.71 | 6.82 | 6.93 | 7.02 | 7.12 | 7.23 | 7.36 | 7.44 |
| Liquid Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity Imports | 0.31 | 0.21 | 0.27 | 0.34 | 0.31 | 0.32 | 0.23 | 0.25 | 0.28 | 0.25 | 0.29 | 0.28 | 0.29 |
| Total | 99.38 | 97.30 | 97.51 | 99.91 | 101.69 | 103.16 | 105.12 | 107.21 | 109.26 | 111.14 | 113.26 | 115.24 | 117.11 |
| Energy Use & Related Statistics | | | | | | | | | | | | | |
| Delivered Energy Use | 72.68 | 71.29 | 72.11 | 73.86 | 75.12 | 76.16 | 77.62 | 79.17 | 80.75 | 82.33 | 84.10 | 85.75 | 87.31 |
| Total Energy Use | 99.38 | 97.30 | 97.51 | 99.91 | 101.69 | 103.16 | 105.12 | 107.21 | 109.26 | 111.14 | 113.26 | 115.24 | 117.11 |
| Population (millions) | 275.69 | 278.18 | 280.68 | 283.17 | 285.64 | 288.09 | 290.53 | 292.96 | 295.38 | 297.81 | 300.24 | 302.68 | 305.15 |
| US GDP (billion 1996 dollars) | 9191 | 9215 | 9440 | 9743 | 10074 | 10361 | 10667 | 11017 | 11408 | 11810 | 12258 | 12671 | 13082 |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1578.2 | 1558.6 | 1536.2 | 1567.9 | 1597.2 | 1623.7 | 1662.3 | 1699.7 | 1734.5 | 1765.8 | 1800.5 | 1832.6 | 1862.1 |

**Table 10. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**United States**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | | |
| Residential | | | | | | | | | | | | | | |
| Distillate Fuel | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.81 | 0.81 | 0.81 | -0.5% |
| Kerosene | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | -2.2% |
| Liquefied Petroleum Gas | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.48 | 0.48 | -0.2% |
| Petroleum Subtotal | 1.43 | 1.42 | 1.41 | 1.40 | 1.39 | 1.38 | 1.37 | 1.37 | 1.36 | 1.35 | 1.35 | 1.35 | 1.34 | -0.5% |
| Natural Gas | 5.77 | 5.81 | 5.85 | 5.91 | 5.94 | 6.00 | 6.06 | 6.12 | 6.17 | 6.23 | 6.29 | 6.36 | 6.40 | 1.1% |
| Coal | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.4% |
| Renewable Energy 1/ | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.40 | 0.41 | 0.40 | 0.40 | 0.40 | 0.41 | 0.40 | 0.2% |
| Electricity | 5.12 | 5.18 | 5.25 | 5.33 | 5.38 | 5.44 | 5.51 | 5.59 | 5.65 | 5.71 | 5.79 | 5.88 | 5.94 | 1.6% |
| Delivered Energy | 12.74 | 12.84 | 12.93 | 13.06 | 13.13 | 13.24 | 13.36 | 13.51 | 13.59 | 13.71 | 13.84 | 14.00 | 14.10 | 1.1% |
| Electricity Related Losses | 10.42 | 10.46 | 10.54 | 10.65 | 10.69 | 10.75 | 10.84 | 10.96 | 10.99 | 11.07 | 11.14 | 11.26 | 11.33 | 0.9% |
| Total | 23.16 | 23.30 | 23.47 | 23.71 | 23.82 | 24.00 | 24.20 | 24.47 | 24.58 | 24.78 | 24.98 | 25.26 | 25.43 | 1.0% |
| Commercial | | | | | | | | | | | | | | |
| Distillate Fuel | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.3% |
| Residual Fuel | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | -2.5% |
| Kerosene | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | -0.7% |
| Liquefied Petroleum Gas | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.4% |
| Motor Gasoline 2/ | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | -1.1% |
| Petroleum Subtotal | 0.68 | 0.68 | 0.68 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.70 | -0.1% |
| Natural Gas | 3.91 | 3.96 | 4.00 | 4.05 | 4.11 | 4.17 | 4.23 | 4.29 | 4.35 | 4.40 | 4.46 | 4.51 | 4.56 | 1.3% |
| Coal | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.7% |
| Renewable Energy 3/ | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.0% |
| Electricity | 5.36 | 5.48 | 5.59 | 5.71 | 5.83 | 5.95 | 6.07 | 6.20 | 6.32 | 6.45 | 6.58 | 6.70 | 6.83 | 2.2% |
| Delivered Energy | 10.16 | 10.32 | 10.49 | 10.65 | 10.83 | 11.01 | 11.20 | 11.38 | 11.57 | 11.76 | 11.94 | 12.12 | 12.30 | 1.6% |
| Electricity Related Losses | 10.92 | 11.06 | 11.23 | 11.41 | 11.57 | 11.75 | 11.94 | 12.14 | 12.32 | 12.49 | 12.66 | 12.84 | 13.03 | 1.5% |
| Total | 21.08 | 21.39 | 21.72 | 22.06 | 22.40 | 22.76 | 23.14 | 23.52 | 23.89 | 24.25 | 24.60 | 24.96 | 25.33 | 1.6% |
| Industrial 4/ | | | | | | | | | | | | | | |
| Distillate Fuel | 1.26 | 1.27 | 1.29 | 1.30 | 1.31 | 1.32 | 1.34 | 1.36 | 1.37 | 1.39 | 1.41 | 1.43 | 1.45 | 1.0% |
| Liquefied Petroleum Gas | 2.78 | 2.83 | 2.87 | 2.90 | 2.94 | 2.99 | 3.05 | 3.10 | 3.14 | 3.19 | 3.23 | 3.28 | 3.33 | 1.9% |
| Petrochemical Feedstocks | 1.53 | 1.56 | 1.58 | 1.59 | 1.62 | 1.64 | 1.67 | 1.69 | 1.72 | 1.74 | 1.77 | 1.79 | 1.82 | 2.0% |
| Residual Fuel | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | -0.4% |
| Motor Gasoline 2/ | 0.17 | 0.17 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 1.0% |
| Other Petroleum 5/ | 4.34 | 4.37 | 4.35 | 4.39 | 4.42 | 4.43 | 4.47 | 4.49 | 4.50 | 4.53 | 4.55 | 4.57 | 4.60 | 0.5% |
| Petroleum Subtotal | 10.29 | 10.40 | 10.46 | 10.55 | 10.67 | 10.77 | 10.91 | 11.02 | 11.12 | 11.24 | 11.35 | 11.47 | 11.59 | 1.2% |
| Natural Gas | 9.56 | 9.67 | 9.79 | 9.86 | 9.96 | 10.10 | 10.26 | 10.38 | 10.54 | 10.72 | 10.87 | 11.06 | 11.22 | 1.6% |
| Lease and Plant Fuel 6/ | 1.47 | 1.49 | 1.51 | 1.52 | 1.52 | 1.55 | 1.57 | 1.59 | 1.63 | 1.69 | 1.70 | 1.72 | 1.74 | 1.5% |
| Natural Gas Subtotal | 11.03 | 11.16 | 11.30 | 11.38 | 11.49 | 11.65 | 11.83 | 11.97 | 12.17 | 12.41 | 12.58 | 12.78 | 12.96 | 1.6% |
| Metallurgical Coal | 0.62 | 0.61 | 0.60 | 0.59 | 0.58 | 0.57 | 0.56 | 0.55 | 0.54 | 0.53 | 0.52 | 0.51 | 0.50 | -1.5% |
| Steam Coal | 1.47 | 1.48 | 1.48 | 1.48 | 1.49 | 1.49 | 1.50 | 1.50 | 1.51 | 1.51 | 1.52 | 1.53 | 1.53 | 0.3% |
| Net Coal Coke Imports | 0.14 | 0.15 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 8.6% |
| Coal Subtotal | 2.24 | 2.24 | 2.23 | 2.23 | 2.22 | 2.22 | 2.22 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 2.21 | 0.1% |
| Renewable Energy 7/ | 2.40 | 2.46 | 2.51 | 2.56 | 2.61 | 2.66 | 2.72 | 2.77 | 2.82 | 2.88 | 2.94 | 3.00 | 3.05 | 2.2% |
| Electricity | 4.21 | 4.28 | 4.34 | 4.38 | 4.44 | 4.50 | 4.58 | 4.63 | 4.69 | 4.77 | 4.85 | 4.93 | 5.00 | 1.6% |
| Delivered Energy | 30.16 | 30.54 | 30.84 | 31.10 | 31.43 | 31.80 | 32.25 | 32.61 | 33.02 | 33.51 | 33.92 | 34.40 | 34.81 | 1.4% |
| Electricity Related Losses | 8.56 | 8.64 | 8.70 | 8.76 | 8.83 | 8.90 | 8.99 | 9.08 | 9.14 | 9.24 | 9.33 | 9.44 | 9.54 | 1.0% |

**Table 10. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**United States**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 38.72 | 39.18 | 39.54 | 39.86 | 40.26 | 40.70 | 41.24 | 41.69 | 42.17 | 42.75 | 43.24 | 43.84 | 44.35 | 1.3% |
| | | | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | | |
| Distillate Fuel 8/ | 7.67 | 7.84 | 7.98 | 8.11 | 8.25 | 8.39 | 8.56 | 8.70 | 8.85 | 9.02 | 9.20 | 9.40 | 9.58 | 2.4% |
| Jet Fuel 9/ | 4.26 | 4.38 | 4.50 | 4.62 | 4.73 | 4.86 | 4.97 | 5.09 | 5.20 | 5.31 | 5.43 | 5.54 | 5.66 | 2.1% |
| Motor Gasoline 2/ | 21.46 | 21.87 | 22.25 | 22.61 | 22.96 | 23.32 | 23.72 | 24.04 | 24.36 | 24.71 | 25.09 | 25.51 | 25.90 | 2.0% |
| Residual Fuel | 0.84 | 0.84 | 0.84 | 0.84 | 0.85 | 0.85 | 0.85 | 0.85 | 0.86 | 0.86 | 0.86 | 0.87 | 0.87 | 0.2% |
| Liquefied Petroleum Gas | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 7.0% |
| Other Petroleum 10/ | 0.27 | 0.28 | 0.28 | 0.28 | 0.29 | 0.29 | 0.30 | 0.30 | 0.30 | 0.31 | 0.31 | 0.31 | 0.32 | 1.2% |
| Petroleum Subtotal | 34.57 | 35.27 | 35.92 | 36.53 | 37.15 | 37.79 | 38.47 | 39.06 | 39.65 | 40.29 | 40.98 | 41.72 | 42.41 | 2.0% |
| Pipeline Fuel Natural Gas | 0.83 | 0.84 | 0.85 | 0.85 | 0.86 | 0.88 | 0.89 | 0.91 | 0.95 | 0.99 | 1.00 | 1.01 | 1.02 | 2.0% |
| Compressed Natural Gas | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 10.4% |
| Renewable Energy (E85) 11/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 8.9% |
| Liquid Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electricity | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 2.8% |
| Delivered Energy | 35.58 | 36.30 | 36.96 | 37.59 | 38.22 | 38.88 | 39.58 | 40.20 | 40.83 | 41.52 | 42.22 | 42.99 | 43.70 | 2.0% |
| Electricity Related Losses | 0.21 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 0.25 | 0.25 | 0.26 | 0.27 | 0.27 | 2.1% |
| Total | 35.78 | 36.51 | 37.18 | 37.81 | 38.44 | 39.11 | 39.82 | 40.44 | 41.07 | 41.77 | 42.48 | 43.26 | 43.97 | 2.0% |
| | | | | | | | | | | | | | | |
| Delivered Energy Consumption, All Sectors | | | | | | | | | | | | | | |
| Distillate Fuel | 10.31 | 10.48 | 10.62 | 10.75 | 10.90 | 11.05 | 11.22 | 11.38 | 11.53 | 11.72 | 11.91 | 12.13 | 12.32 | 1.8% |
| Kerosene | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -1.5% |
| Jet Fuel 9/ | 4.26 | 4.38 | 4.50 | 4.62 | 4.73 | 4.86 | 4.97 | 5.09 | 5.20 | 5.31 | 5.43 | 5.54 | 5.66 | 2.1% |
| Liquefied Petroleum Gas | 3.41 | 3.45 | 3.50 | 3.54 | 3.58 | 3.63 | 3.69 | 3.74 | 3.79 | 3.84 | 3.88 | 3.94 | 3.99 | 1.6% |
| Motor Gasoline 2/ | 21.67 | 22.08 | 22.46 | 22.82 | 23.17 | 23.54 | 23.93 | 24.26 | 24.58 | 24.93 | 25.32 | 25.74 | 26.13 | 1.9% |
| Petrochemical Feedstocks | 1.53 | 1.56 | 1.58 | 1.59 | 1.62 | 1.64 | 1.67 | 1.69 | 1.72 | 1.74 | 1.77 | 1.79 | 1.82 | 2.0% |
| Residual Fuel | 1.07 | 1.08 | 1.08 | 1.08 | 1.09 | 1.09 | 1.09 | 1.10 | 1.10 | 1.11 | 1.11 | 1.12 | 1.12 | -0.1% |
| Other Petroleum 12/ | 4.59 | 4.63 | 4.61 | 4.65 | 4.69 | 4.70 | 4.74 | 4.76 | 4.78 | 4.82 | 4.84 | 4.86 | 4.89 | 0.6% |
| Petroleum Subtotal | 46.97 | 47.77 | 48.46 | 49.17 | 49.90 | 50.63 | 51.44 | 52.14 | 52.82 | 53.57 | 54.36 | 55.23 | 56.03 | 1.7% |
| Natural Gas | 19.32 | 19.52 | 19.73 | 19.91 | 20.11 | 20.36 | 20.64 | 20.89 | 21.15 | 21.46 | 21.73 | 22.04 | 22.29 | 1.4% |
| Lease and Plant Fuel 6/ | 1.47 | 1.49 | 1.51 | 1.52 | 1.52 | 1.55 | 1.57 | 1.59 | 1.63 | 1.69 | 1.70 | 1.72 | 1.74 | 1.5% |
| Pipeline Natural Gas | 0.83 | 0.84 | 0.85 | 0.85 | 0.86 | 0.88 | 0.89 | 0.91 | 0.95 | 0.99 | 1.00 | 1.01 | 1.02 | 2.0% |
| Natural Gas Subtotal | 21.62 | 21.85 | 22.09 | 22.28 | 22.49 | 22.79 | 23.10 | 23.39 | 23.73 | 24.13 | 24.43 | 24.77 | 25.05 | 1.4% |
| Metallurgical Coal | 0.62 | 0.61 | 0.60 | 0.59 | 0.58 | 0.57 | 0.56 | 0.55 | 0.54 | 0.53 | 0.52 | 0.51 | 0.50 | -1.5% |
| Steam Coal | 1.58 | 1.59 | 1.60 | 1.60 | 1.60 | 1.61 | 1.62 | 1.62 | 1.63 | 1.63 | 1.64 | 1.65 | 1.65 | 0.3% |
| Net Coal Coke Imports | 0.14 | 0.15 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 8.6% |
| Coal Subtotal | 2.35 | 2.35 | 2.35 | 2.34 | 2.34 | 2.33 | 2.34 | 2.33 | 2.33 | 2.33 | 2.33 | 2.34 | 2.34 | 0.1% |
| Renewable Energy 13/ | 2.92 | 2.98 | 3.03 | 3.07 | 3.12 | 3.18 | 3.24 | 3.29 | 3.34 | 3.40 | 3.45 | 3.52 | 3.57 | 1.8% |
| Liquid Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electricity | 14.79 | 15.05 | 15.29 | 15.53 | 15.76 | 16.01 | 16.28 | 16.55 | 16.79 | 17.06 | 17.34 | 17.65 | 17.92 | 1.8% |
| Delivered Energy | 88.65 | 90.00 | 91.22 | 92.40 | 93.61 | 94.94 | 96.39 | 97.70 | 99.01 | 100.49 | 101.92 | 103.50 | 104.91 | 1.6% |
| Electricity Related Losses | 30.10 | 30.37 | 30.69 | 31.03 | 31.31 | 31.63 | 32.01 | 32.42 | 32.70 | 33.05 | 33.39 | 33.80 | 34.17 | 1.1% |
| Total | 118.75 | 120.37 | 121.91 | 123.43 | 124.92 | 126.56 | 128.40 | 130.12 | 131.71 | 133.55 | 135.31 | 137.31 | 139.07 | 1.5% |
| | | | | | | | | | | | | | | |
| Electric Generators 14/ | | | | | | | | | | | | | | |
| Distillate Fuel | 0.10 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.13 | 0.10 | 0.12 | 0.15 | 0.17 | 0.0% |
| Residual Fuel | 0.35 | 0.36 | 0.36 | 0.37 | 0.37 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.35 | 0.36 | 0.36 | -4.5% |
| Petroleum Subtotal | 0.45 | 0.47 | 0.47 | 0.48 | 0.48 | 0.46 | 0.45 | 0.46 | 0.49 | 0.45 | 0.47 | 0.51 | 0.52 | -3.6% |
| Natural Gas | 7.82 | 8.05 | 8.16 | 8.44 | 8.61 | 8.95 | 9.24 | 9.57 | 9.90 | 10.23 | 10.43 | 10.73 | 10.76 | 2.9% |
| Steam Coal | 23.29 | 23.50 | 23.95 | 24.20 | 24.55 | 24.78 | 25.12 | 25.35 | 25.51 | 25.83 | 26.22 | 26.53 | 27.09 | 1.3% |
| Nuclear Power | 8.42 | 8.47 | 8.41 | 8.42 | 8.42 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 0.2% |
| Renewable Energy/Other 15/ | 4.63 | 4.68 | 4.72 | 4.77 | 4.80 | 4.83 | 4.91 | 5.00 | 5.03 | 5.06 | 5.10 | 5.16 | 5.21 | 2.3% |
| Electricity Imports | 0.27 | 0.25 | 0.27 | 0.25 | 0.22 | 0.18 | 0.14 | 0.17 | 0.14 | 0.11 | 0.09 | 0.08 | 0.07 | -4.5% |
| Total | 44.89 | 45.42 | 45.98 | 46.56 | 47.07 | 47.64 | 48.29 | 48.97 | 49.49 | 50.12 | 50.74 | 51.45 | 52.09 | 1.4% |

**Table 10. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**United States**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Energy Consumption | | | | | | | | | | | | | | |
| Distillate Fuel | 10.41 | 10.59 | 10.73 | 10.87 | 11.01 | 11.16 | 11.32 | 11.48 | 11.66 | 11.81 | 12.03 | 12.28 | 12.49 | 1.8% |
| Kerosene | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -1.5% |
| Jet Fuel 9/ | 4.26 | 4.38 | 4.50 | 4.62 | 4.73 | 4.86 | 4.97 | 5.09 | 5.20 | 5.31 | 5.43 | 5.54 | 5.66 | 2.1% |
| Liquefied Petroleum Gas | 3.41 | 3.45 | 3.50 | 3.54 | 3.58 | 3.63 | 3.69 | 3.74 | 3.79 | 3.84 | 3.88 | 3.94 | 3.99 | 1.6% |
| Motor Gasoline 2/ | 21.67 | 22.08 | 22.46 | 22.82 | 23.17 | 23.54 | 23.93 | 24.26 | 24.58 | 24.93 | 25.32 | 25.74 | 26.13 | 1.9% |
| Petrochemical Feedstocks | 1.53 | 1.56 | 1.58 | 1.59 | 1.62 | 1.64 | 1.67 | 1.69 | 1.72 | 1.74 | 1.77 | 1.79 | 1.82 | 2.0% |
| Residual Fuel | 1.43 | 1.44 | 1.44 | 1.45 | 1.45 | 1.45 | 1.45 | 1.46 | 1.46 | 1.47 | 1.46 | 1.48 | 1.47 | -1.7% |
| Other Petroleum 12/ | 4.59 | 4.63 | 4.61 | 4.65 | 4.69 | 4.70 | 4.74 | 4.76 | 4.78 | 4.82 | 4.84 | 4.86 | 4.89 | 0.6% |
| Petroleum Subtotal | 47.42 | 48.25 | 48.93 | 49.66 | 50.37 | 51.09 | 51.89 | 52.60 | 53.30 | 54.03 | 54.83 | 55.74 | 56.56 | 1.6% |
| Natural Gas | 27.14 | 27.57 | 27.90 | 28.35 | 28.71 | 29.31 | 29.88 | 30.46 | 31.05 | 31.68 | 32.16 | 32.77 | 33.05 | 1.8% |
| Lease and Plant Fuel 6/ | 1.47 | 1.49 | 1.51 | 1.52 | 1.52 | 1.55 | 1.57 | 1.59 | 1.63 | 1.69 | 1.70 | 1.72 | 1.74 | 1.5% |
| Pipeline Natural Gas | 0.83 | 0.84 | 0.85 | 0.85 | 0.86 | 0.88 | 0.89 | 0.91 | 0.95 | 0.99 | 1.00 | 1.01 | 1.02 | 2.0% |
| Natural Gas Subtotal | 29.44 | 29.90 | 30.25 | 30.72 | 31.10 | 31.74 | 32.34 | 32.96 | 33.63 | 34.36 | 34.86 | 35.51 | 35.81 | 1.8% |
| Metallurgical Coal | 0.62 | 0.61 | 0.60 | 0.59 | 0.58 | 0.57 | 0.56 | 0.55 | 0.54 | 0.53 | 0.52 | 0.51 | 0.50 | -1.5% |
| Steam Coal | 24.87 | 25.09 | 25.55 | 25.80 | 26.15 | 26.39 | 26.74 | 26.97 | 27.13 | 27.47 | 27.86 | 28.18 | 28.74 | 1.3% |
| Net Coal Coke Imports | 0.14 | 0.15 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 8.6% |
| Coal Subtotal | 25.64 | 25.85 | 26.30 | 26.54 | 26.88 | 27.12 | 27.46 | 27.68 | 27.84 | 28.16 | 28.55 | 28.87 | 29.42 | 1.2% |
| Nuclear Power | 8.42 | 8.47 | 8.41 | 8.42 | 8.42 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 8.43 | 0.2% |
| Renewable Energy 16/ | 7.55 | 7.65 | 7.75 | 7.85 | 7.92 | 8.01 | 8.14 | 8.28 | 8.37 | 8.46 | 8.55 | 8.67 | 8.78 | 2.1% |
| Liquid Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electricity Imports | 0.27 | 0.25 | 0.27 | 0.25 | 0.22 | 0.18 | 0.14 | 0.17 | 0.14 | 0.11 | 0.09 | 0.08 | 0.07 | -4.5% |
| Total | 118.75 | 120.37 | 121.91 | 123.43 | 124.92 | 126.56 | 128.40 | 130.12 | 131.71 | 133.55 | 135.31 | 137.31 | 139.07 | 1.5% |
| Energy Use & Related Statistics | | | | | | | | | | | | | | |
| Delivered Energy Use | 88.65 | 90.00 | 91.22 | 92.40 | 93.61 | 94.94 | 96.39 | 97.70 | 99.01 | 100.49 | 101.92 | 103.50 | 104.91 | 1.6% |
| Total Energy Use | 118.75 | 120.37 | 121.91 | 123.43 | 124.92 | 126.56 | 128.40 | 130.12 | 131.71 | 133.55 | 135.31 | 137.31 | 139.07 | 1.5% |
| Population (millions) | 307.64 | 310.14 | 312.66 | 315.19 | 317.72 | 320.26 | 322.79 | 325.32 | 327.87 | 330.43 | 333.01 | 335.61 | 338.24 | 0.8% |
| US GDP (billion 1996 dollars) | 13480 | 13893 | 14288 | 14681 | 15101 | 15540 | 16013 | 16450 | 16888 | 17363 | 17858 | 18389 | 18917 | 3.0% |
| Carbon Dioxide Emissions (million metric tons carbon equivalent) | 1889.2 | 1915.7 | 1944.2 | 1970.2 | 1996.8 | 2024.6 | 2055.5 | 2082.5 | 2108.3 | 2139.7 | 2170.8 | 2204.3 | 2236.9 | 1.5% |

**Table 10. Energy Consumption by Sector and Source**
**(Quadrillion Btu per Year, Unless Otherwise Noted)**
**United States**

1/ Includes wood used for residential heating. See Table A18 estimates of nonmarketed renewable energy consumption for geothermal heat pumps, solar thermal hot water heating, and solar photovoltaic electricity generation.
2/ Includes ethanol (blends of 10 percent or less) and ethers blended into gasoline.
3/ Includes commercial sector electricity cogenerated by using wood and wood waste, landfill gas, municipal solid waste, and other biomass. See Table A18 for estimates of nonmarketed renewable energy consumption for solar thermal hot water heating and solar photovoltaic electricity generation.
4/ Fuel consumption includes consumption for combined heat and power, which produces electricity, both for sale to the grid and for own use, and other useful thermal energy.
5/ Includes petroleum coke, asphalt, road oil, lubricants, still gas, and miscellaneous petroleum products.
6/ Represents natural gas used in the field gathering and processing plant machinery.
7/ Includes consumption of energy from hydroelectric, wood and wood waste, municipal solid waste, and other biomass.
8/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur.
9/ Includes only kerosene type.
10/ Includes aviation gasoline and lubricants.
11/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
12/ Includes unfinished oils, natural gasoline, motor gasoline blending compounds, aviation gasoline, lubricants, still gas, asphalt, road oil, petroleum coke, and miscellaneous petroleum products.
13/ Includes electricity generated for sale to the grid and for own use from renewable sources, and non-electric energy from renewable sources. Excludes nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
14/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
15/ Includes conventional hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, petroleum coke, wind, photovoltaic and solar thermal sources. Excludes net electricity imports.
16/ Includes hydroelectric, geothermal, wood and wood waste, municipal solid waste, other biomass, wind, photovoltaic and solar thermal sources. Includes ethanol components of E85; excludes ethanol blends (10 percent or less) in motor gasoline. Excludes net electricity imports and nonmarketed renewable energy consumption for geothermal heat pumps, buildings photovoltaic systems, and solar thermal hot water heaters.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports. Consumption values of 0.00 are values that round to 0.00, because they are less than 0.005.
Sources: 2000 and 2001 consumption based on: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). 2000 and 2001 population and gross domestic product: Global Insight macroeconomic model CTL0802. 2000 and 2001 carbon dioxide emissions: EIA, Emissions of Greenhouse Gases in the United States 2001, DOE/EIA-0573(2001) (Washington, DC, December 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 11. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**New England**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 14.86 | 15.62 | 13.86 | 14.23 | 13.87 | 13.45 | 13.24 | 13.24 | 13.39 | 13.40 | 13.71 | 13.83 | 14.08 |
| Primary Energy 1/ | 10.06 | 10.52 | 9.06 | 9.61 | 9.22 | 8.83 | 8.73 | 8.73 | 8.77 | 8.82 | 8.90 | 8.97 | 9.04 |
| Petroleum Products 2/ | 9.99 | 9.46 | 8.64 | 9.43 | 8.96 | 8.45 | 8.34 | 8.35 | 8.39 | 8.42 | 8.51 | 8.57 | 8.64 |
| Distillate Fuel | 9.42 | 8.87 | 8.01 | 8.96 | 8.34 | 7.79 | 7.71 | 7.71 | 7.75 | 7.79 | 7.86 | 7.93 | 8.00 |
| Liquefied Petroleum Gas | 16.62 | 17.31 | 15.88 | 16.31 | 17.64 | 17.55 | 17.18 | 17.44 | 17.47 | 17.51 | 17.76 | 17.80 | 17.84 |
| Natural Gas | 10.18 | 12.59 | 9.84 | 9.95 | 9.71 | 9.55 | 9.46 | 9.44 | 9.48 | 9.55 | 9.63 | 9.71 | 9.78 |
| Electricity | 31.88 | 33.98 | 30.29 | 30.51 | 30.11 | 29.46 | 28.80 | 28.64 | 29.01 | 28.76 | 29.79 | 30.04 | 30.89 |
| Commercial | 14.48 | 15.76 | 14.79 | 14.10 | 13.50 | 13.06 | 12.70 | 12.65 | 12.94 | 12.77 | 13.24 | 13.23 | 13.58 |
| Primary Energy 1/ | 7.55 | 8.08 | 7.07 | 7.28 | 6.83 | 6.69 | 6.62 | 6.65 | 6.71 | 6.78 | 6.88 | 6.96 | 7.04 |
| Petroleum Products 2/ | 7.41 | 6.72 | 6.79 | 7.14 | 6.48 | 6.31 | 6.22 | 6.24 | 6.29 | 6.31 | 6.39 | 6.45 | 6.51 |
| Distillate Fuel | 7.52 | 6.71 | 6.46 | 6.88 | 6.21 | 6.03 | 5.95 | 5.95 | 5.98 | 6.02 | 6.10 | 6.17 | 6.24 |
| Residual Fuel | 3.06 | 3.00 | 3.85 | 4.12 | 3.58 | 3.46 | 3.49 | 3.52 | 3.56 | 3.55 | 3.57 | 3.59 | 3.62 |
| Natural Gas | 7.78 | 9.97 | 7.45 | 7.47 | 7.27 | 7.14 | 7.09 | 7.12 | 7.20 | 7.31 | 7.43 | 7.52 | 7.61 |
| Electricity | 27.11 | 28.48 | 26.45 | 24.62 | 23.71 | 22.72 | 21.85 | 21.54 | 22.06 | 21.42 | 22.30 | 22.05 | 22.69 |
| Industrial 3/ | 8.30 | 8.45 | 7.22 | 7.57 | 7.17 | 6.93 | 6.81 | 6.81 | 6.90 | 6.82 | 6.91 | 6.85 | 6.97 |
| Primary Energy | 5.51 | 5.43 | 4.68 | 4.97 | 4.62 | 4.48 | 4.45 | 4.48 | 4.54 | 4.63 | 4.75 | 4.82 | 4.92 |
| Petroleum Products 2/ | 5.72 | 5.04 | 5.24 | 5.77 | 5.21 | 5.08 | 5.10 | 5.14 | 5.18 | 5.26 | 5.37 | 5.40 | 5.50 |
| Distillate Fuel | 7.50 | 6.46 | 6.52 | 6.94 | 6.29 | 6.11 | 6.03 | 6.03 | 6.07 | 6.11 | 6.18 | 6.25 | 6.32 |
| Liquefied Petroleum Gas | 10.97 | 11.72 | 11.59 | 12.03 | 12.27 | 12.18 | 11.81 | 12.06 | 12.10 | 12.13 | 12.38 | 12.43 | 12.47 |
| Residual Fuel | 3.07 | 3.02 | 3.82 | 4.10 | 3.57 | 3.44 | 3.47 | 3.50 | 3.55 | 3.53 | 3.56 | 3.57 | 3.61 |
| Natural Gas 4/ | 5.44 | 5.79 | 4.35 | 4.50 | 4.28 | 4.13 | 4.07 | 4.10 | 4.18 | 4.28 | 4.40 | 4.51 | 4.62 |
| Metallurgical Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Steam Coal | 2.34 | 2.38 | 2.39 | 2.39 | 2.36 | 2.36 | 2.35 | 2.32 | 2.30 | 2.28 | 2.26 | 2.27 | 2.25 |
| Electricity | 21.85 | 23.12 | 20.82 | 21.02 | 20.31 | 19.45 | 18.81 | 18.52 | 18.67 | 17.66 | 17.60 | 16.83 | 17.05 |
| Transportation | 12.51 | 11.42 | 11.07 | 11.68 | 11.12 | 10.97 | 11.03 | 11.09 | 11.06 | 11.13 | 11.18 | 11.13 | 11.10 |
| Primary Energy | 12.45 | 11.36 | 11.01 | 11.63 | 11.07 | 10.92 | 10.99 | 11.05 | 11.02 | 11.08 | 11.14 | 11.09 | 11.05 |
| Petroleum Products 2/ | 12.45 | 11.36 | 11.02 | 11.63 | 11.08 | 10.93 | 10.99 | 11.06 | 11.03 | 11.10 | 11.15 | 11.10 | 11.07 |
| Distillate Fuel 5/ | 11.85 | 10.66 | 10.16 | 10.79 | 10.26 | 10.04 | 10.29 | 10.83 | 10.74 | 10.89 | 10.98 | 11.10 | 10.95 |
| Jet Fuel 6/ | 7.64 | 6.42 | 6.19 | 6.62 | 6.48 | 6.25 | 6.04 | 6.03 | 6.05 | 6.09 | 6.07 | 6.13 | 6.14 |
| Motor Gasoline 7/ | 13.16 | 12.07 | 11.72 | 12.34 | 11.72 | 11.59 | 11.64 | 11.61 | 11.59 | 11.64 | 11.69 | 11.59 | 11.58 |
| Residual Fuel | 3.05 | 3.09 | 3.43 | 3.71 | 3.02 | 2.89 | 2.92 | 2.95 | 3.00 | 2.97 | 3.01 | 3.02 | 3.05 |
| Liquefied Petroleum Gas 8/ | 14.77 | 14.47 | 13.61 | 14.03 | 17.03 | 16.90 | 16.50 | 16.73 | 16.74 | 16.76 | 16.98 | 16.99 | 17.00 |
| Natural Gas 9/ | 7.41 | 8.12 | 6.54 | 6.74 | 6.53 | 6.40 | 6.47 | 6.62 | 6.81 | 7.00 | 7.19 | 7.36 | 7.52 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 21.65 | 21.32 | 21.55 | 21.76 | 23.30 | 23.58 | 23.95 | 24.18 | 24.25 | 24.34 |
| Electricity | 31.78 | 29.28 | 26.11 | 26.17 | 25.55 | 24.73 | 23.98 | 23.74 | 23.96 | 23.52 | 24.17 | 24.10 | 24.63 |
| Average End-Use Energy | 12.59 | 12.67 | 11.67 | 11.97 | 11.47 | 11.19 | 11.09 | 11.09 | 11.17 | 11.15 | 11.32 | 11.30 | 11.41 |
| Primary Energy | 9.95 | 9.70 | 8.95 | 9.45 | 8.98 | 8.79 | 8.80 | 8.85 | 8.87 | 8.95 | 9.03 | 9.05 | 9.08 |
| Electricity | 27.68 | 29.35 | 26.77 | 26.10 | 25.40 | 24.55 | 23.79 | 23.52 | 23.89 | 23.29 | 23.99 | 23.77 | 24.36 |
| Electric Generators 11/ | | | | | | | | | | | | | |
| Fossil Fuel Average | 3.38 | 3.06 | 2.82 | 2.95 | 2.81 | 2.74 | 2.74 | 2.80 | 2.91 | 2.99 | 3.07 | 3.15 | 3.23 |
| Petroleum Products | 3.95 | 3.81 | 3.87 | 4.23 | 3.47 | 3.34 | 3.36 | 3.39 | 3.41 | 3.43 | 3.45 | 3.46 | 3.49 |
| Distillate Fuel | 6.95 | 5.78 | 5.52 | 5.94 | 5.28 | 5.10 | 5.01 | 5.02 | 5.05 | 5.09 | 5.17 | 5.24 | 5.31 |
| Residual Fuel | 3.91 | 3.78 | 3.73 | 4.02 | 3.33 | 3.21 | 3.24 | 3.27 | 3.32 | 3.31 | 3.34 | 3.35 | 3.38 |
| Natural Gas | 4.49 | 3.51 | 3.19 | 3.39 | 3.26 | 3.19 | 3.21 | 3.32 | 3.48 | 3.63 | 3.77 | 3.89 | 4.00 |

**Table 11. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**New England**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Steam Coal | 1.67 | 1.73 | 1.66 | 1.68 | 1.68 | 1.70 | 1.68 | 1.65 | 1.63 | 1.61 | 1.60 | 1.61 | 1.60 |
| | | | | | | | | | | | | | |
| Average Price to All Users 12/ | | | | | | | | | | | | | |
| Petroleum Products 2/ | 10.08 | 9.37 | 9.41 | 10.09 | 9.43 | 9.24 | 9.26 | 9.31 | 9.26 | 9.43 | 9.49 | 9.51 | 9.49 |
| Distillate Fuel | 9.53 | 8.77 | 8.17 | 8.93 | 8.33 | 7.97 | 7.99 | 8.16 | 8.18 | 8.28 | 8.38 | 8.49 | 8.51 |
| Jet Fuel | 7.64 | 6.42 | 6.19 | 6.62 | 6.48 | 6.25 | 6.04 | 6.03 | 6.05 | 6.09 | 6.07 | 6.13 | 6.14 |
| Liquefied Petroleum Gas | 15.46 | 16.08 | 15.00 | 15.36 | 16.48 | 16.38 | 16.00 | 16.25 | 16.28 | 16.29 | 16.53 | 16.55 | 16.58 |
| Motor Gasoline 7/ | 13.16 | 12.08 | 11.72 | 12.34 | 11.72 | 11.58 | 11.64 | 11.61 | 11.59 | 11.64 | 11.69 | 11.59 | 11.58 |
| Residual Fuel | 3.68 | 3.56 | 3.76 | 4.06 | 3.42 | 3.29 | 3.32 | 3.35 | 3.38 | 3.39 | 3.42 | 3.43 | 3.46 |
| Natural Gas | 6.68 | 7.06 | 5.28 | 5.47 | 5.34 | 5.26 | 5.23 | 5.27 | 5.35 | 5.42 | 5.54 | 5.62 | 5.72 |
| Coal | 1.69 | 1.75 | 1.69 | 1.70 | 1.70 | 1.72 | 1.70 | 1.67 | 1.65 | 1.63 | 1.62 | 1.63 | 1.62 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 21.65 | 21.32 | 21.55 | 21.76 | 23.30 | 23.58 | 23.95 | 24.18 | 24.25 | 24.34 |
| Electricity | 27.68 | 29.35 | 26.77 | 26.10 | 25.40 | 24.55 | 23.79 | 23.52 | 23.89 | 23.29 | 23.99 | 23.77 | 24.36 |
| | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector | | | | | | | | | | | | | |
| (billion 2001 dollars) | | | | | | | | | | | | | |
| Residential | 9.47 | 10.14 | 8.82 | 9.59 | 9.41 | 9.18 | 9.12 | 9.16 | 9.30 | 9.29 | 9.51 | 9.60 | 9.79 |
| Commercial | 6.50 | 7.07 | 6.44 | 6.18 | 6.04 | 5.95 | 5.89 | 5.94 | 6.13 | 6.11 | 6.39 | 6.45 | 6.67 |
| Industrial | 4.29 | 4.01 | 3.46 | 3.70 | 3.58 | 3.48 | 3.46 | 3.52 | 3.63 | 3.66 | 3.79 | 3.83 | 3.97 |
| Transportation | 12.81 | 11.82 | 11.64 | 12.54 | 12.16 | 12.25 | 12.61 | 12.99 | 13.27 | 13.66 | 14.05 | 14.28 | 14.52 |
| Total Non-Renewable Expenditures | 33.06 | 33.04 | 30.35 | 32.01 | 31.19 | 30.85 | 31.07 | 31.60 | 32.33 | 32.72 | 33.75 | 34.16 | 34.95 |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Expenditures | 33.06 | 33.04 | 30.35 | 32.01 | 31.19 | 30.85 | 31.07 | 31.60 | 32.33 | 32.72 | 33.75 | 34.16 | 34.95 |

**Table 11. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**New England**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 14.21 | 14.41 | 14.44 | 14.57 | 14.57 | 14.70 | 14.86 | 14.98 | 14.98 | 15.00 | 15.01 | 15.15 | 15.18 | -0.1% |
| Primary Energy 1/ | 9.11 | 9.21 | 9.21 | 9.25 | 9.18 | 9.24 | 9.34 | 9.39 | 9.39 | 9.40 | 9.45 | 9.52 | 9.60 | -0.4% |
| Petroleum Products 2/ | 8.72 | 8.87 | 8.85 | 8.89 | 8.84 | 8.93 | 9.09 | 9.15 | 9.19 | 9.22 | 9.25 | 9.28 | 9.31 | -0.1% |
| Distillate Fuel | 8.08 | 8.24 | 8.23 | 8.27 | 8.22 | 8.32 | 8.49 | 8.55 | 8.59 | 8.62 | 8.65 | 8.68 | 8.71 | -0.1% |
| Liquefied Petroleum Gas | 17.88 | 17.92 | 17.97 | 18.01 | 17.82 | 17.86 | 17.89 | 17.93 | 17.99 | 18.05 | 18.11 | 18.16 | 18.22 | 0.2% |
| Natural Gas | 9.83 | 9.85 | 9.85 | 9.89 | 9.81 | 9.79 | 9.79 | 9.81 | 9.74 | 9.72 | 9.80 | 9.94 | 10.10 | -0.9% |
| Electricity | 31.22 | 31.70 | 31.76 | 32.17 | 32.33 | 32.67 | 32.95 | 33.22 | 33.15 | 33.05 | 32.84 | 33.13 | 32.91 | -0.1% |
| Commercial | 13.80 | 14.15 | 14.31 | 14.63 | 14.84 | 15.20 | 15.61 | 16.03 | 16.17 | 16.34 | 16.31 | 16.62 | 16.51 | 0.2% |
| Primary Energy 1/ | 7.11 | 7.20 | 7.19 | 7.24 | 7.18 | 7.22 | 7.30 | 7.35 | 7.34 | 7.35 | 7.41 | 7.51 | 7.62 | -0.2% |
| Petroleum Products 2/ | 6.59 | 6.73 | 6.72 | 6.75 | 6.71 | 6.80 | 6.95 | 7.00 | 7.04 | 7.07 | 7.11 | 7.13 | 7.17 | 0.3% |
| Distillate Fuel | 6.32 | 6.48 | 6.46 | 6.50 | 6.46 | 6.56 | 6.72 | 6.79 | 6.83 | 6.86 | 6.89 | 6.92 | 6.95 | 0.1% |
| Residual Fuel | 3.65 | 3.68 | 3.70 | 3.73 | 3.75 | 3.77 | 3.80 | 3.81 | 3.85 | 3.88 | 3.90 | 3.94 | 3.97 | 1.2% |
| Natural Gas | 7.67 | 7.70 | 7.70 | 7.76 | 7.68 | 7.66 | 7.66 | 7.70 | 7.63 | 7.62 | 7.70 | 7.85 | 8.01 | -0.9% |
| Electricity | 23.01 | 23.62 | 23.94 | 24.58 | 25.11 | 25.83 | 26.64 | 27.51 | 27.82 | 28.17 | 27.96 | 28.46 | 27.98 | -0.1% |
| Industrial 3/ | 7.05 | 7.15 | 7.19 | 7.29 | 7.25 | 7.32 | 7.41 | 7.52 | 7.51 | 7.54 | 7.55 | 7.71 | 7.75 | -0.4% |
| Primary Energy | 4.99 | 5.04 | 5.05 | 5.09 | 4.98 | 4.99 | 5.01 | 5.05 | 5.02 | 5.03 | 5.08 | 5.19 | 5.30 | -0.1% |
| Petroleum Products 2/ | 5.55 | 5.65 | 5.68 | 5.69 | 5.53 | 5.57 | 5.62 | 5.66 | 5.69 | 5.73 | 5.75 | 5.80 | 5.83 | 0.6% |
| Distillate Fuel | 6.40 | 6.56 | 6.55 | 6.59 | 6.54 | 6.64 | 6.81 | 6.87 | 6.92 | 6.95 | 6.98 | 7.00 | 7.03 | 0.4% |
| Liquefied Petroleum Gas | 12.51 | 12.55 | 12.59 | 12.64 | 12.44 | 12.48 | 12.52 | 12.56 | 12.62 | 12.68 | 12.73 | 12.79 | 12.85 | 0.4% |
| Residual Fuel | 3.63 | 3.66 | 3.69 | 3.72 | 3.74 | 3.76 | 3.78 | 3.80 | 3.83 | 3.86 | 3.89 | 3.93 | 3.96 | 1.1% |
| Natural Gas 4/ | 4.69 | 4.73 | 4.73 | 4.79 | 4.71 | 4.70 | 4.71 | 4.75 | 4.69 | 4.69 | 4.76 | 4.92 | 5.07 | -0.5% |
| Metallurgical Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Steam Coal | 2.24 | 2.22 | 2.20 | 2.17 | 2.15 | 2.14 | 2.11 | 2.08 | 2.07 | 2.06 | 2.04 | 2.04 | 2.03 | -0.7% |
| Electricity | 17.12 | 17.48 | 17.65 | 18.09 | 18.37 | 18.83 | 19.34 | 19.91 | 20.07 | 20.24 | 20.12 | 20.55 | 20.32 | -0.5% |
| Transportation | 11.07 | 11.07 | 11.06 | 11.07 | 11.09 | 11.10 | 11.10 | 11.09 | 11.13 | 11.17 | 11.22 | 11.19 | 11.41 | 0.0% |
| Primary Energy | 11.02 | 11.02 | 11.01 | 11.02 | 11.04 | 11.05 | 11.05 | 11.04 | 11.08 | 11.12 | 11.16 | 11.14 | 11.35 | 0.0% |
| Petroleum Products 2/ | 11.03 | 11.03 | 11.02 | 11.03 | 11.05 | 11.06 | 11.06 | 11.05 | 11.09 | 11.13 | 11.18 | 11.15 | 11.37 | 0.0% |
| Distillate Fuel 5/ | 10.81 | 10.76 | 10.76 | 10.77 | 10.89 | 10.97 | 10.94 | 10.88 | 11.02 | 11.14 | 11.21 | 10.98 | 11.01 | 0.1% |
| Jet Fuel 6/ | 6.26 | 6.38 | 6.38 | 6.39 | 6.39 | 6.47 | 6.58 | 6.59 | 6.74 | 6.88 | 6.97 | 6.99 | 7.01 | 0.4% |
| Motor Gasoline 7/ | 11.56 | 11.56 | 11.55 | 11.55 | 11.56 | 11.55 | 11.55 | 11.55 | 11.56 | 11.58 | 11.62 | 11.63 | 11.91 | -0.1% |
| Residual Fuel | 3.08 | 3.12 | 3.14 | 3.17 | 3.19 | 3.22 | 3.24 | 3.26 | 3.29 | 3.32 | 3.34 | 3.38 | 3.41 | 0.4% |
| Liquefied Petroleum Gas 8/ | 17.01 | 17.02 | 17.04 | 17.05 | 16.82 | 16.83 | 16.84 | 16.85 | 16.88 | 16.91 | 16.94 | 16.97 | 17.00 | 0.7% |
| Natural Gas 9/ | 7.65 | 7.72 | 7.76 | 7.84 | 7.79 | 7.80 | 7.83 | 7.90 | 7.86 | 7.88 | 7.99 | 8.16 | 8.33 | 0.1% |
| Ethanol (E85) 10/ | 24.41 | 24.51 | 24.58 | 24.68 | 24.75 | 24.81 | 24.87 | 24.98 | 25.04 | 25.14 | 25.25 | 25.58 | 25.51 | 1.5% |
| Electricity | 24.72 | 24.95 | 24.86 | 25.09 | 25.04 | 25.17 | 25.30 | 25.38 | 25.15 | 24.93 | 24.62 | 24.77 | 24.50 | -0.7% |
| Average End-Use Energy | 11.46 | 11.57 | 11.59 | 11.69 | 11.72 | 11.81 | 11.92 | 12.02 | 12.06 | 12.10 | 12.11 | 12.20 | 12.29 | -0.1% |
| Primary Energy | 9.10 | 9.15 | 9.15 | 9.18 | 9.15 | 9.17 | 9.20 | 9.21 | 9.23 | 9.25 | 9.30 | 9.33 | 9.48 | -0.1% |
| Electricity | 24.59 | 25.07 | 25.26 | 25.77 | 26.10 | 26.62 | 27.17 | 27.77 | 27.91 | 28.07 | 27.88 | 28.29 | 27.95 | -0.2% |
| Electric Generators 11/ | | | | | | | | | | | | | | |
| Fossil Fuel Average | 3.28 | 3.32 | 3.32 | 3.36 | 3.33 | 3.33 | 3.35 | 3.36 | 3.34 | 3.37 | 3.43 | 3.53 | 3.65 | 0.7% |
| Petroleum Products | 3.52 | 3.55 | 3.57 | 3.59 | 3.62 | 3.65 | 3.68 | 3.71 | 3.75 | 3.78 | 3.81 | 3.82 | 3.86 | 0.0% |
| Distillate Fuel | 5.39 | 5.55 | 5.53 | 5.57 | 5.53 | 5.62 | 5.79 | 5.86 | 5.90 | 5.93 | 5.96 | 5.99 | 6.02 | 0.2% |
| Residual Fuel | 3.41 | 3.44 | 3.47 | 3.49 | 3.52 | 3.54 | 3.57 | 3.60 | 3.63 | 3.66 | 3.69 | 3.71 | 3.74 | 0.0% |
| Natural Gas | 4.08 | 4.13 | 4.13 | 4.19 | 4.12 | 4.12 | 4.13 | 4.17 | 4.12 | 4.13 | 4.21 | 4.37 | 4.54 | 1.1% |

**Table 11. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**New England**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Steam Coal | 1.59 | 1.58 | 1.57 | 1.56 | 1.54 | 1.54 | 1.53 | 1.52 | 1.51 | 1.50 | 1.49 | 1.49 | 1.49 | -0.6% |
| | | | | | | | | | | | | | | |
| Average Price to All Users 12/ | | | | | | | | | | | | | | |
| Petroleum Products 2/ | 9.50 | 9.53 | 9.53 | 9.54 | 9.54 | 9.58 | 9.63 | 9.66 | 9.71 | 9.77 | 9.83 | 9.82 | 9.98 | 0.3% |
| Distillate Fuel | 8.54 | 8.64 | 8.64 | 8.68 | 8.70 | 8.80 | 8.92 | 8.95 | 9.03 | 9.11 | 9.16 | 9.11 | 9.15 | 0.2% |
| Jet Fuel | 6.26 | 6.38 | 6.38 | 6.39 | 6.39 | 6.47 | 6.58 | 6.59 | 6.74 | 6.88 | 6.97 | 6.99 | 7.01 | 0.4% |
| Liquefied Petroleum Gas | 16.60 | 16.64 | 16.67 | 16.71 | 16.50 | 16.53 | 16.56 | 16.59 | 16.64 | 16.68 | 16.73 | 16.78 | 16.83 | 0.2% |
| Motor Gasoline 7/ | 11.56 | 11.56 | 11.55 | 11.55 | 11.56 | 11.55 | 11.55 | 11.55 | 11.56 | 11.58 | 11.62 | 11.63 | 11.91 | -0.1% |
| Residual Fuel | 3.48 | 3.51 | 3.54 | 3.56 | 3.58 | 3.61 | 3.63 | 3.66 | 3.69 | 3.72 | 3.75 | 3.78 | 3.81 | 0.3% |
| Natural Gas | 5.78 | 5.81 | 5.81 | 5.87 | 5.78 | 5.77 | 5.77 | 5.83 | 5.75 | 5.73 | 5.80 | 5.95 | 6.09 | -0.6% |
| Coal | 1.61 | 1.60 | 1.59 | 1.58 | 1.56 | 1.56 | 1.55 | 1.53 | 1.52 | 1.52 | 1.51 | 1.51 | 1.51 | -0.6% |
| Ethanol (E85) 10/ | 24.41 | 24.51 | 24.58 | 24.68 | 24.75 | 24.81 | 24.87 | 24.98 | 25.04 | 25.14 | 25.25 | 25.58 | 25.51 | 1.5% |
| Electricity | 24.59 | 25.07 | 25.26 | 25.77 | 26.10 | 26.62 | 27.17 | 27.77 | 27.91 | 28.07 | 27.88 | 28.29 | 27.95 | -0.2% |
| | | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | | |
| Residential | 9.85 | 9.98 | 10.01 | 10.15 | 10.14 | 10.26 | 10.39 | 10.52 | 10.54 | 10.60 | 10.67 | 10.85 | 10.90 | 0.3% |
| Commercial | 6.83 | 7.06 | 7.20 | 7.43 | 7.61 | 7.87 | 8.16 | 8.46 | 8.63 | 8.82 | 8.91 | 9.17 | 9.22 | 1.1% |
| Industrial | 4.07 | 4.19 | 4.25 | 4.35 | 4.37 | 4.47 | 4.60 | 4.73 | 4.78 | 4.87 | 4.95 | 5.14 | 5.24 | 1.1% |
| Transportation | 14.74 | 14.96 | 15.16 | 15.37 | 15.59 | 15.81 | 16.03 | 16.19 | 16.42 | 16.67 | 16.95 | 17.15 | 17.69 | 1.7% |
| Total Non-Renewable Expenditures | 35.49 | 36.20 | 36.63 | 37.29 | 37.72 | 38.40 | 39.17 | 39.90 | 40.36 | 40.97 | 41.48 | 42.31 | 43.04 | 1.1% |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 10.3% |
| Total Expenditures | 35.49 | 36.20 | 36.63 | 37.30 | 37.73 | 38.41 | 39.18 | 39.90 | 40.37 | 40.97 | 41.48 | 42.32 | 43.05 | 1.1% |

**Table 11. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**New England**

1/ Weighted average price includes fuels below as well as coal.
2/ This quantity is the weighted average for all petroleum products, not just those listed below.
3/ Includes combined heat and power.
4/ Excludes uses for lease and plant fuel.
5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
8/ Includes Federal and State taxes while excluding county and local taxes.
9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
11/ Includes combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
Note: Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports.
Sources: 2000 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2000, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2001). 2001 prices for motor gasoline, distillate, and jet fuel are based on the Petroleum Marketing Annual 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (Setember 2002). 2000 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002). 2000 and 2001 electric power prices: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2000 and 2001 industrial gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2000 and 2001 coal prices based on EIA, Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. 2000 and 2001 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 12. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Middle Atlantic**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 14.46 | 15.32 | 13.87 | 13.73 | 13.32 | 13.04 | 12.78 | 12.64 | 12.76 | 12.89 | 13.20 | 13.37 | 13.60 |
| Primary Energy 1/ | 9.40 | 10.22 | 8.98 | 9.38 | 9.07 | 8.80 | 8.70 | 8.72 | 8.77 | 8.83 | 8.94 | 9.01 | 9.09 |
| Petroleum Products 2/ | 10.67 | 9.94 | 9.09 | 9.87 | 9.49 | 8.99 | 8.89 | 8.93 | 8.98 | 9.04 | 9.14 | 9.23 | 9.31 |
| Distillate Fuel | 10.06 | 9.25 | 8.41 | 9.34 | 8.74 | 8.18 | 8.10 | 8.10 | 8.14 | 8.18 | 8.25 | 8.32 | 8.39 |
| Liquefied Petroleum Gas | 17.35 | 18.01 | 15.91 | 16.35 | 18.18 | 18.09 | 17.72 | 17.97 | 18.01 | 18.05 | 18.30 | 18.34 | 18.38 |
| Natural Gas | 8.78 | 10.41 | 8.95 | 9.16 | 8.88 | 8.73 | 8.63 | 8.65 | 8.69 | 8.77 | 8.87 | 8.94 | 9.01 |
| Electricity | 32.14 | 32.64 | 29.79 | 28.38 | 27.45 | 26.95 | 25.99 | 25.09 | 25.24 | 25.44 | 26.31 | 26.69 | 27.36 |
| Commercial | 15.94 | 16.22 | 15.18 | 14.38 | 13.69 | 13.22 | 12.74 | 12.35 | 12.55 | 12.64 | 13.14 | 13.28 | 13.69 |
| Primary Energy 1/ | 6.98 | 7.42 | 6.28 | 6.48 | 6.15 | 6.01 | 5.95 | 6.00 | 6.07 | 6.16 | 6.28 | 6.36 | 6.43 |
| Petroleum Products 2/ | 6.71 | 6.01 | 6.35 | 6.74 | 6.12 | 5.92 | 5.84 | 5.87 | 5.91 | 5.95 | 6.01 | 6.06 | 6.12 |
| Distillate Fuel | 7.26 | 6.29 | 6.16 | 6.59 | 5.88 | 5.70 | 5.62 | 5.62 | 5.66 | 5.69 | 5.77 | 5.84 | 5.91 |
| Residual Fuel | 3.71 | 3.63 | 4.29 | 4.57 | 4.24 | 4.12 | 4.14 | 4.16 | 4.18 | 4.20 | 4.22 | 4.25 | 4.27 |
| Natural Gas | 7.32 | 8.35 | 6.43 | 6.55 | 6.31 | 6.20 | 6.14 | 6.20 | 6.29 | 6.40 | 6.55 | 6.63 | 6.72 |
| Electricity | 28.22 | 27.33 | 25.27 | 23.63 | 22.50 | 21.59 | 20.56 | 19.53 | 19.77 | 19.78 | 20.63 | 20.76 | 21.48 |
| Industrial 3/ | 6.86 | 6.62 | 5.79 | 6.10 | 5.81 | 5.70 | 5.63 | 5.63 | 5.75 | 5.81 | 5.97 | 6.03 | 6.24 |
| Primary Energy | 5.13 | 4.93 | 4.36 | 4.68 | 4.41 | 4.31 | 4.28 | 4.32 | 4.36 | 4.46 | 4.58 | 4.66 | 4.83 |
| Petroleum Products 2/ | 6.50 | 5.58 | 5.38 | 5.97 | 5.60 | 5.49 | 5.49 | 5.54 | 5.55 | 5.66 | 5.80 | 5.84 | 6.11 |
| Distillate Fuel | 7.41 | 6.33 | 6.26 | 6.69 | 6.02 | 5.84 | 5.76 | 5.76 | 5.80 | 5.83 | 5.91 | 5.98 | 6.05 |
| Liquefied Petroleum Gas | 12.62 | 12.67 | 11.74 | 12.17 | 12.71 | 12.62 | 12.25 | 12.50 | 12.54 | 12.57 | 12.82 | 12.87 | 12.91 |
| Residual Fuel | 3.44 | 3.37 | 4.09 | 4.37 | 4.04 | 3.92 | 3.94 | 3.96 | 3.98 | 4.00 | 4.03 | 4.05 | 4.07 |
| Natural Gas 4/ | 5.59 | 5.95 | 4.58 | 4.84 | 4.58 | 4.45 | 4.37 | 4.42 | 4.51 | 4.61 | 4.75 | 4.85 | 4.95 |
| Metallurgical Coal | 1.56 | 1.62 | 1.54 | 1.54 | 1.52 | 1.50 | 1.49 | 1.48 | 1.46 | 1.45 | 1.44 | 1.42 | 1.42 |
| Steam Coal | 1.37 | 1.37 | 1.36 | 1.36 | 1.33 | 1.34 | 1.33 | 1.31 | 1.28 | 1.27 | 1.26 | 1.26 | 1.25 |
| Electricity | 17.21 | 16.85 | 15.34 | 15.23 | 14.88 | 14.57 | 14.22 | 13.87 | 14.38 | 14.17 | 14.41 | 14.26 | 14.62 |
| Transportation | 11.31 | 10.13 | 9.82 | 10.41 | 10.15 | 10.03 | 10.08 | 10.17 | 10.14 | 10.23 | 10.28 | 10.25 | 10.22 |
| Primary Energy | 11.25 | 10.07 | 9.76 | 10.36 | 10.10 | 9.99 | 10.04 | 10.13 | 10.11 | 10.19 | 10.24 | 10.21 | 10.18 |
| Petroleum Products 2/ | 11.25 | 10.07 | 9.77 | 10.36 | 10.11 | 9.99 | 10.05 | 10.14 | 10.11 | 10.19 | 10.25 | 10.22 | 10.18 |
| Distillate Fuel 5/ | 11.69 | 10.34 | 9.72 | 10.35 | 9.99 | 9.77 | 10.01 | 10.56 | 10.46 | 10.61 | 10.71 | 10.82 | 10.66 |
| Jet Fuel 6/ | 7.33 | 6.18 | 5.88 | 6.30 | 6.07 | 5.84 | 5.63 | 5.62 | 5.64 | 5.68 | 5.69 | 5.77 | 5.81 |
| Motor Gasoline 7/ | 12.61 | 11.34 | 10.99 | 11.61 | 11.35 | 11.27 | 11.32 | 11.29 | 11.27 | 11.34 | 11.38 | 11.28 | 11.26 |
| Residual Fuel | 3.94 | 3.22 | 3.77 | 4.05 | 3.86 | 3.73 | 3.76 | 3.77 | 3.79 | 3.82 | 3.84 | 3.87 | 3.89 |
| Liquefied Petroleum Gas 8/ | 16.57 | 16.12 | 14.94 | 15.36 | 16.04 | 15.92 | 15.52 | 15.75 | 15.76 | 15.77 | 15.99 | 16.01 | 16.02 |
| Natural Gas 9/ | 7.98 | 8.39 | 7.17 | 7.45 | 7.17 | 7.03 | 7.12 | 7.33 | 7.56 | 7.77 | 7.99 | 8.15 | 8.30 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.74 | 20.40 | 20.64 | 20.85 | 22.39 | 22.67 | 23.03 | 23.27 | 23.33 | 23.43 |
| Electricity | 28.45 | 26.73 | 23.87 | 23.40 | 22.79 | 21.77 | 20.87 | 20.03 | 20.21 | 20.20 | 20.82 | 20.92 | 21.35 |
| Average End-Use Energy | 11.56 | 11.37 | 10.52 | 10.69 | 10.32 | 10.12 | 9.99 | 9.92 | 9.98 | 10.06 | 10.25 | 10.29 | 10.44 |
| Primary Energy | 8.80 | 8.52 | 7.87 | 8.33 | 8.03 | 7.90 | 7.90 | 7.96 | 7.98 | 8.07 | 8.16 | 8.20 | 8.25 |
| Electricity | 26.79 | 26.66 | 24.67 | 23.40 | 22.52 | 21.87 | 21.01 | 20.14 | 20.39 | 20.39 | 21.07 | 21.18 | 21.77 |
| Electric Generators 11/ | | | | | | | | | | | | | |
| Fossil Fuel Average | 2.49 | 2.30 | 2.04 | 2.10 | 2.04 | 2.04 | 1.99 | 2.00 | 2.04 | 2.09 | 2.15 | 2.21 | 2.26 |
| Petroleum Products | 4.47 | 3.61 | 4.07 | 4.38 | 4.02 | 3.89 | 3.92 | 3.94 | 3.97 | 3.99 | 4.03 | 4.06 | 4.09 |
| Distillate Fuel | 7.42 | 5.70 | 5.50 | 5.92 | 5.23 | 5.05 | 4.97 | 4.97 | 5.01 | 5.05 | 5.12 | 5.19 | 5.26 |
| Residual Fuel | 4.33 | 3.45 | 4.00 | 4.26 | 3.94 | 3.82 | 3.84 | 3.86 | 3.88 | 3.91 | 3.93 | 3.96 | 3.98 |
| Natural Gas | 4.64 | 4.15 | 3.36 | 3.63 | 3.42 | 3.31 | 3.25 | 3.33 | 3.47 | 3.60 | 3.77 | 3.90 | 4.02 |
| Steam Coal | 1.48 | 1.45 | 1.41 | 1.41 | 1.40 | 1.42 | 1.41 | 1.38 | 1.35 | 1.34 | 1.32 | 1.31 | 1.30 |
| Average Price to All Users 12/ | | | | | | | | | | | | | |
| Petroleum Products 2/ | 9.94 | 8.89 | 8.73 | 9.40 | 9.11 | 8.96 | 9.00 | 9.08 | 9.09 | 9.17 | 9.24 | 9.23 | 9.25 |

**Table 12. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Middle Atlantic**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 10.23 | 9.14 | 8.59 | 9.31 | 8.82 | 8.49 | 8.57 | 8.86 | 8.85 | 8.97 | 9.07 | 9.19 | 9.16 |
| Jet Fuel | 7.33 | 6.18 | 5.88 | 6.30 | 6.07 | 5.84 | 5.63 | 5.62 | 5.64 | 5.68 | 5.69 | 5.77 | 5.81 |
| Liquefied Petroleum Gas | 15.15 | 15.58 | 14.08 | 14.45 | 15.66 | 15.57 | 15.20 | 15.45 | 15.48 | 15.49 | 15.72 | 15.67 | 15.39 |
| Motor Gasoline 7/ | 12.61 | 11.34 | 10.99 | 11.61 | 11.35 | 11.27 | 11.32 | 11.29 | 11.27 | 11.34 | 11.38 | 11.28 | 11.26 |
| Residual Fuel | 4.05 | 3.39 | 3.93 | 4.19 | 3.93 | 3.81 | 3.84 | 3.85 | 3.87 | 3.90 | 3.93 | 3.95 | 3.97 |
| Natural Gas | 6.77 | 7.50 | 6.17 | 6.40 | 6.09 | 5.94 | 5.86 | 5.87 | 5.90 | 5.97 | 6.08 | 6.14 | 6.22 |
| Coal | 1.47 | 1.45 | 1.41 | 1.41 | 1.40 | 1.42 | 1.40 | 1.38 | 1.35 | 1.33 | 1.32 | 1.31 | 1.30 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.74 | 20.40 | 20.64 | 20.85 | 22.39 | 22.67 | 23.03 | 23.27 | 23.33 | 23.43 |
| Electricity | 26.79 | 26.66 | 24.67 | 23.40 | 22.52 | 21.87 | 21.01 | 20.14 | 20.39 | 20.39 | 21.07 | 21.18 | 21.77 |
| | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | |
| Residential | 24.71 | 25.80 | 23.17 | 24.35 | 23.78 | 23.32 | 22.97 | 22.76 | 23.03 | 23.17 | 23.66 | 23.87 | 24.27 |
| Commercial | 19.26 | 19.57 | 17.78 | 17.08 | 16.64 | 16.36 | 16.04 | 15.75 | 16.17 | 16.46 | 17.25 | 17.59 | 18.26 |
| Industrial | 12.38 | 11.20 | 9.82 | 10.45 | 10.18 | 10.00 | 9.97 | 10.12 | 10.49 | 10.75 | 11.24 | 11.54 | 12.08 |
| Transportation | 31.92 | 28.71 | 28.11 | 30.21 | 29.83 | 29.99 | 30.77 | 31.68 | 32.28 | 33.22 | 34.09 | 34.63 | 35.11 |
| Total Non-Renewable Expenditures | 88.28 | 85.28 | 78.88 | 82.09 | 80.42 | 79.68 | 79.74 | 80.31 | 81.97 | 83.60 | 86.24 | 87.63 | 89.72 |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total Expenditures | 88.28 | 85.28 | 78.88 | 82.09 | 80.43 | 79.68 | 79.74 | 80.32 | 81.97 | 83.61 | 86.25 | 87.64 | 89.73 |

**Table 12. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Middle Atlantic**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 13.74 | 13.90 | 14.01 | 14.09 | 14.11 | 14.17 | 14.24 | 14.35 | 14.32 | 14.37 | 14.44 | 14.49 | 14.62 | -0.2% |
| Primary Energy 1/ | 9.15 | 9.23 | 9.24 | 9.27 | 9.23 | 9.25 | 9.31 | 9.39 | 9.40 | 9.43 | 9.49 | 9.54 | 9.60 | -0.3% |
| Petroleum Products 2/ | 9.41 | 9.58 | 9.59 | 9.64 | 9.60 | 9.71 | 9.89 | 9.97 | 10.03 | 10.08 | 10.13 | 10.17 | 10.22 | 0.1% |
| Distillate Fuel | 8.47 | 8.63 | 8.62 | 8.66 | 8.61 | 8.71 | 8.88 | 8.94 | 8.99 | 9.02 | 9.05 | 9.07 | 9.10 | -0.1% |
| Liquefied Petroleum Gas | 18.42 | 18.46 | 18.51 | 18.55 | 18.35 | 18.39 | 18.43 | 18.47 | 18.53 | 18.59 | 18.65 | 18.70 | 18.76 | 0.2% |
| Natural Gas | 9.07 | 9.10 | 9.12 | 9.13 | 9.10 | 9.08 | 9.09 | 9.17 | 9.17 | 9.19 | 9.25 | 9.32 | 9.38 | -0.4% |
| Electricity | 27.70 | 28.07 | 28.40 | 28.62 | 28.71 | 28.84 | 28.87 | 29.01 | 28.73 | 28.77 | 28.79 | 28.76 | 29.05 | -0.5% |
| Commercial | 13.95 | 14.27 | 14.63 | 14.92 | 15.05 | 15.35 | 15.44 | 15.58 | 15.33 | 15.35 | 15.29 | 15.23 | 15.49 | -0.2% |
| Primary Energy 1/ | 6.50 | 6.56 | 6.58 | 6.60 | 6.58 | 6.58 | 6.63 | 6.71 | 6.72 | 6.76 | 6.82 | 6.88 | 6.94 | -0.3% |
| Petroleum Products 2/ | 6.19 | 6.32 | 6.31 | 6.34 | 6.31 | 6.39 | 6.52 | 6.58 | 6.62 | 6.65 | 6.68 | 6.72 | 6.76 | 0.5% |
| Distillate Fuel | 5.99 | 6.15 | 6.13 | 6.17 | 6.13 | 6.23 | 6.40 | 6.46 | 6.50 | 6.53 | 6.56 | 6.59 | 6.62 | 0.2% |
| Residual Fuel | 4.29 | 4.31 | 4.34 | 4.36 | 4.38 | 4.40 | 4.42 | 4.45 | 4.48 | 4.51 | 4.55 | 4.58 | 4.61 | 1.0% |
| Natural Gas | 6.79 | 6.82 | 6.85 | 6.87 | 6.84 | 6.82 | 6.84 | 6.93 | 6.94 | 6.97 | 7.04 | 7.12 | 7.19 | -0.6% |
| Electricity | 21.89 | 22.43 | 23.15 | 23.71 | 24.03 | 24.64 | 24.77 | 24.96 | 24.38 | 24.34 | 24.08 | 23.83 | 24.24 | -0.5% |
| Industrial 3/ | 6.48 | 6.60 | 6.71 | 6.77 | 6.71 | 6.76 | 6.84 | 6.92 | 6.91 | 6.95 | 7.00 | 7.04 | 7.13 | 0.3% |
| Primary Energy | 5.04 | 5.11 | 5.18 | 5.20 | 5.10 | 5.14 | 5.21 | 5.28 | 5.30 | 5.35 | 5.40 | 5.46 | 5.53 | 0.5% |
| Petroleum Products 2/ | 6.49 | 6.60 | 6.72 | 6.70 | 6.47 | 6.55 | 6.66 | 6.70 | 6.75 | 6.79 | 6.81 | 6.85 | 6.92 | 0.9% |
| Distillate Fuel | 6.13 | 6.29 | 6.28 | 6.32 | 6.27 | 6.37 | 6.54 | 6.60 | 6.64 | 6.67 | 6.70 | 6.73 | 6.76 | 0.3% |
| Liquefied Petroleum Gas | 12.95 | 12.99 | 13.03 | 13.08 | 12.88 | 12.92 | 12.96 | 13.00 | 13.06 | 13.12 | 13.17 | 13.23 | 13.29 | 0.2% |
| Residual Fuel | 4.09 | 4.12 | 4.14 | 4.16 | 4.18 | 4.20 | 4.23 | 4.25 | 4.28 | 4.32 | 4.35 | 4.38 | 4.42 | 1.1% |
| Natural Gas 4/ | 5.04 | 5.09 | 5.11 | 5.14 | 5.11 | 5.10 | 5.12 | 5.21 | 5.22 | 5.25 | 5.33 | 5.40 | 5.47 | -0.3% |
| Metallurgical Coal | 1.41 | 1.41 | 1.40 | 1.38 | 1.37 | 1.37 | 1.36 | 1.35 | 1.33 | 1.32 | 1.32 | 1.31 | 1.30 | -0.9% |
| Steam Coal | 1.24 | 1.24 | 1.23 | 1.22 | 1.21 | 1.22 | 1.21 | 1.21 | 1.20 | 1.20 | 1.20 | 1.20 | 1.21 | -0.5% |
| Electricity | 14.85 | 15.17 | 15.57 | 15.82 | 15.95 | 16.11 | 16.18 | 16.36 | 16.16 | 16.20 | 16.23 | 16.17 | 16.43 | -0.1% |
| Transportation | 10.19 | 10.20 | 10.19 | 10.21 | 10.25 | 10.26 | 10.27 | 10.26 | 10.32 | 10.38 | 10.44 | 10.42 | 10.61 | 0.2% |
| Primary Energy | 10.15 | 10.15 | 10.15 | 10.16 | 10.20 | 10.21 | 10.22 | 10.21 | 10.27 | 10.33 | 10.40 | 10.37 | 10.56 | 0.2% |
| Petroleum Products 2/ | 10.15 | 10.16 | 10.15 | 10.17 | 10.20 | 10.22 | 10.23 | 10.22 | 10.27 | 10.34 | 10.40 | 10.38 | 10.57 | 0.2% |
| Distillate Fuel 5/ | 10.53 | 10.48 | 10.47 | 10.49 | 10.61 | 10.68 | 10.65 | 10.60 | 10.73 | 10.86 | 10.93 | 10.69 | 10.73 | 0.2% |
| Jet Fuel 6/ | 5.95 | 6.08 | 6.10 | 6.13 | 6.14 | 6.23 | 6.35 | 6.37 | 6.53 | 6.68 | 6.77 | 6.80 | 6.82 | 0.4% |
| Motor Gasoline 7/ | 11.22 | 11.22 | 11.20 | 11.22 | 11.25 | 11.23 | 11.23 | 11.23 | 11.24 | 11.27 | 11.33 | 11.36 | 11.64 | 0.1% |
| Residual Fuel | 3.91 | 3.93 | 3.96 | 3.98 | 4.00 | 4.02 | 4.04 | 4.07 | 4.10 | 4.13 | 4.17 | 4.20 | 4.23 | 1.2% |
| Liquefied Petroleum Gas 8/ | 16.03 | 16.04 | 16.05 | 16.06 | 15.84 | 15.85 | 15.86 | 15.87 | 15.90 | 15.93 | 15.96 | 15.98 | 16.01 | 0.0% |
| Natural Gas 9/ | 8.41 | 8.48 | 8.52 | 8.55 | 8.53 | 8.51 | 8.54 | 8.64 | 8.65 | 8.69 | 8.76 | 8.84 | 8.91 | 0.2% |
| Ethanol (E85) 10/ | 23.49 | 23.59 | 23.66 | 23.76 | 23.83 | 23.89 | 23.95 | 24.06 | 24.12 | 24.22 | 24.33 | 24.66 | 24.59 | 1.4% |
| Electricity | 21.47 | 21.65 | 21.87 | 21.98 | 21.89 | 21.93 | 21.83 | 21.83 | 21.33 | 21.24 | 21.05 | 20.93 | 21.06 | -1.0% |
| Average End-Use Energy | 10.55 | 10.65 | 10.74 | 10.82 | 10.83 | 10.90 | 10.94 | 10.99 | 10.96 | 10.99 | 11.03 | 11.02 | 11.17 | -0.1% |
| Primary Energy | 8.33 | 8.37 | 8.39 | 8.41 | 8.40 | 8.42 | 8.46 | 8.49 | 8.52 | 8.57 | 8.63 | 8.65 | 8.78 | 0.1% |
| Electricity | 22.08 | 22.49 | 23.00 | 23.37 | 23.55 | 23.90 | 23.97 | 24.14 | 23.74 | 23.73 | 23.62 | 23.48 | 23.80 | -0.5% |
| Electric Generators 11/ | | | | | | | | | | | | | | |
| Fossil Fuel Average | 2.30 | 2.33 | 2.37 | 2.40 | 2.40 | 2.40 | 2.44 | 2.51 | 2.54 | 2.59 | 2.64 | 2.67 | 2.71 | 0.7% |
| Petroleum Products | 4.11 | 4.14 | 4.16 | 4.19 | 4.21 | 4.23 | 4.26 | 4.29 | 4.32 | 4.36 | 4.39 | 4.42 | 4.45 | 0.9% |
| Distillate Fuel | 5.34 | 5.50 | 5.49 | 5.53 | 5.48 | 5.58 | 5.75 | 5.81 | 5.85 | 5.88 | 5.91 | 5.94 | 5.97 | 0.2% |
| Residual Fuel | 4.01 | 4.03 | 4.05 | 4.08 | 4.10 | 4.12 | 4.14 | 4.17 | 4.20 | 4.23 | 4.27 | 4.30 | 4.33 | 1.0% |
| Natural Gas | 4.10 | 4.16 | 4.20 | 4.24 | 4.22 | 4.21 | 4.25 | 4.36 | 4.38 | 4.43 | 4.51 | 4.59 | 4.67 | 0.5% |
| Steam Coal | 1.29 | 1.29 | 1.28 | 1.27 | 1.26 | 1.26 | 1.26 | 1.25 | 1.25 | 1.25 | 1.24 | 1.24 | 1.24 | -0.7% |
| Average Price to All Users 12/ | | | | | | | | | | | | | | |
| Petroleum Products 2/ | 9.29 | 9.34 | 9.35 | 9.37 | 9.36 | 9.40 | 9.45 | 9.45 | 9.51 | 9.57 | 9.63 | 9.62 | 9.78 | 0.4% |

**Table 12. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Middle Atlantic**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 9.14 | 9.21 | 9.21 | 9.24 | 9.30 | 9.40 | 9.47 | 9.47 | 9.58 | 9.67 | 9.74 | 9.62 | 9.67 | 0.2% |
| Jet Fuel | 5.95 | 6.08 | 6.10 | 6.13 | 6.14 | 6.23 | 6.35 | 6.37 | 6.53 | 6.68 | 6.77 | 6.80 | 6.82 | 0.4% |
| Liquefied Petroleum Gas | 14.94 | 14.97 | 14.92 | 14.97 | 14.75 | 14.75 | 14.72 | 14.76 | 14.82 | 14.88 | 14.94 | 15.00 | 15.02 | -0.2% |
| Motor Gasoline 7/ | 11.22 | 11.22 | 11.20 | 11.22 | 11.25 | 11.23 | 11.23 | 11.23 | 11.24 | 11.27 | 11.33 | 11.36 | 11.64 | 0.1% |
| Residual Fuel | 4.00 | 4.02 | 4.04 | 4.07 | 4.09 | 4.11 | 4.13 | 4.16 | 4.19 | 4.22 | 4.26 | 4.29 | 4.32 | 1.0% |
| Natural Gas | 6.29 | 6.31 | 6.31 | 6.31 | 6.27 | 6.23 | 6.23 | 6.30 | 6.28 | 6.29 | 6.34 | 6.41 | 6.46 | -0.6% |
| Coal | 1.29 | 1.29 | 1.27 | 1.27 | 1.26 | 1.26 | 1.26 | 1.25 | 1.24 | 1.25 | 1.24 | 1.24 | 1.24 | -0.6% |
| Ethanol (E85) 10/ | 23.49 | 23.59 | 23.66 | 23.76 | 23.83 | 23.89 | 23.95 | 24.06 | 24.12 | 24.22 | 24.33 | 24.66 | 24.59 | 1.4% |
| Electricity | 22.08 | 22.49 | 23.00 | 23.37 | 23.55 | 23.90 | 23.97 | 24.14 | 23.74 | 23.73 | 23.62 | 23.48 | 23.80 | -0.5% |
| | | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | | |
| Residential | 24.39 | 24.62 | 24.77 | 24.97 | 24.93 | 25.06 | 25.21 | 25.49 | 25.41 | 25.56 | 25.76 | 26.00 | 26.24 | 0.1% |
| Commercial | 18.73 | 19.26 | 19.82 | 20.25 | 20.48 | 20.93 | 21.10 | 21.37 | 21.14 | 21.28 | 21.27 | 21.23 | 21.56 | 0.4% |
| Industrial | 12.58 | 12.95 | 13.28 | 13.47 | 13.49 | 13.72 | 14.01 | 14.32 | 14.44 | 14.70 | 14.97 | 15.26 | 15.64 | 1.4% |
| Transportation | 35.54 | 36.05 | 36.45 | 36.90 | 37.42 | 37.87 | 38.34 | 38.65 | 39.18 | 39.80 | 40.47 | 40.86 | 42.04 | 1.6% |
| Total Non-Renewable Expenditures | 91.24 | 92.88 | 94.32 | 95.60 | 96.33 | 97.57 | 98.66 | 99.83 | 100.16 | 101.34 | 102.47 | 103.35 | 105.48 | 0.9% |
| Transportation Renewable Expenditures | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 9.7% |
| Total Expenditures | 91.24 | 92.88 | 94.33 | 95.61 | 96.34 | 97.58 | 98.68 | 99.85 | 100.17 | 101.36 | 102.49 | 103.37 | 105.49 | 0.9% |

**Table 12. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Middle Atlantic**

1/ Weighted average price includes fuels below as well as coal.
2/ This quantity is the weighted average for all petroleum products, not just those listed below.
3/ Includes combined heat and power.
4/ Excludes uses for lease and plant fuel.
5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
8/ Includes Federal and State taxes while excluding county and local taxes.
9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
11/ Includes combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
Note: Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports.
Sources: 2000 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2000, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2001). 2001 prices for motor gasoline, distillate, and jet fuel are based on the Petroleum Marketing Annual 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (Setember 2002). 2000 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002). 2000 and 2001 electric power prices: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2000 and 2001 industrial gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2000 and 2001 coal prices based on EIA, Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. 2000 and 2001 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 13. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**East North Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 11.33 | 12.32 | 10.88 | 10.99 | 10.81 | 10.69 | 10.54 | 10.45 | 10.52 | 10.52 | 10.72 | 10.81 | 10.97 |
| Primary Energy 1/ | 7.29 | 8.52 | 6.83 | 7.15 | 6.97 | 6.84 | 6.73 | 6.77 | 6.81 | 6.88 | 6.99 | 7.06 | 7.12 |
| Petroleum Products 2/ | 11.34 | 11.91 | 10.42 | 10.89 | 10.79 | 10.55 | 10.28 | 10.45 | 10.50 | 10.55 | 10.75 | 10.85 | 10.91 |
| Distillate Fuel | 8.93 | 8.63 | 7.55 | 8.49 | 7.76 | 7.20 | 7.12 | 7.12 | 7.17 | 7.22 | 7.29 | 7.46 | 7.51 |
| Liquefied Petroleum Gas | 12.41 | 13.63 | 11.74 | 12.16 | 12.39 | 12.31 | 11.94 | 12.19 | 12.23 | 12.26 | 12.51 | 12.55 | 12.59 |
| Natural Gas | 6.76 | 8.08 | 6.36 | 6.70 | 6.50 | 6.40 | 6.30 | 6.33 | 6.38 | 6.45 | 6.55 | 6.62 | 6.68 |
| Electricity | 23.03 | 22.51 | 21.54 | 21.31 | 21.06 | 20.82 | 20.49 | 19.93 | 19.93 | 19.61 | 19.90 | 19.93 | 20.24 |
| Commercial | 11.28 | 12.10 | 11.11 | 10.83 | 10.66 | 10.56 | 10.30 | 10.15 | 10.28 | 10.27 | 10.52 | 10.62 | 10.85 |
| Primary Energy 1/ | 6.33 | 7.58 | 5.85 | 6.04 | 5.85 | 5.77 | 5.71 | 5.77 | 5.85 | 5.95 | 6.08 | 6.16 | 6.22 |
| Petroleum Products 2/ | 9.13 | 8.92 | 7.93 | 8.21 | 7.57 | 7.42 | 7.30 | 7.36 | 7.41 | 7.43 | 7.51 | 7.64 | 7.68 |
| Distillate Fuel | 7.01 | 6.39 | 5.75 | 6.18 | 5.38 | 5.19 | 5.10 | 5.10 | 5.16 | 5.20 | 5.27 | 5.44 | 5.49 |
| Residual Fuel | 2.89 | 2.82 | 3.65 | 3.94 | 3.40 | 3.28 | 3.31 | 3.33 | 3.35 | 3.37 | 3.40 | 3.42 | 3.44 |
| Natural Gas | 6.16 | 7.61 | 5.75 | 5.95 | 5.79 | 5.72 | 5.66 | 5.72 | 5.81 | 5.92 | 6.06 | 6.13 | 6.20 |
| Electricity | 19.71 | 19.35 | 19.21 | 18.54 | 18.41 | 18.23 | 17.61 | 17.03 | 17.15 | 16.86 | 17.23 | 17.29 | 17.70 |
| Industrial 3/ | 6.30 | 6.23 | 5.47 | 5.84 | 5.70 | 5.62 | 5.55 | 5.56 | 5.68 | 5.71 | 5.85 | 5.90 | 6.01 |
| Primary Energy | 4.76 | 4.75 | 4.07 | 4.36 | 4.19 | 4.08 | 4.04 | 4.08 | 4.14 | 4.20 | 4.31 | 4.39 | 4.45 |
| Petroleum Products 2/ | 7.11 | 6.79 | 5.85 | 6.34 | 6.06 | 5.90 | 5.88 | 5.91 | 5.98 | 6.02 | 6.14 | 6.26 | 6.32 |
| Distillate Fuel | 7.98 | 7.24 | 6.30 | 6.73 | 5.96 | 5.77 | 5.68 | 5.68 | 5.74 | 5.78 | 5.85 | 6.02 | 6.07 |
| Liquefied Petroleum Gas | 13.08 | 14.44 | 11.59 | 12.02 | 12.53 | 12.45 | 12.08 | 12.33 | 12.37 | 12.40 | 12.65 | 12.69 | 12.73 |
| Residual Fuel | 3.17 | 3.10 | 3.75 | 4.03 | 3.50 | 3.38 | 3.41 | 3.43 | 3.45 | 3.47 | 3.49 | 3.52 | 3.54 |
| Natural Gas 4/ | 4.48 | 4.61 | 3.68 | 4.00 | 3.82 | 3.73 | 3.65 | 3.70 | 3.79 | 3.89 | 4.01 | 4.09 | 4.17 |
| Metallurgical Coal | 1.73 | 1.76 | 1.68 | 1.67 | 1.65 | 1.64 | 1.63 | 1.61 | 1.59 | 1.58 | 1.57 | 1.55 | 1.54 |
| Steam Coal | 1.37 | 1.40 | 1.41 | 1.41 | 1.39 | 1.39 | 1.38 | 1.37 | 1.35 | 1.34 | 1.33 | 1.32 | 1.30 |
| Electricity | 12.68 | 12.41 | 11.80 | 12.27 | 12.31 | 12.28 | 12.02 | 11.79 | 12.07 | 11.89 | 12.07 | 11.92 | 12.19 |
| Transportation | 11.73 | 11.05 | 10.16 | 10.77 | 10.47 | 10.35 | 10.45 | 10.56 | 10.52 | 10.63 | 10.66 | 10.64 | 10.58 |
| Primary Energy | 11.70 | 11.03 | 10.14 | 10.75 | 10.45 | 10.32 | 10.43 | 10.54 | 10.50 | 10.61 | 10.64 | 10.62 | 10.56 |
| Petroleum Products 2/ | 11.71 | 11.03 | 10.14 | 10.75 | 10.45 | 10.33 | 10.44 | 10.54 | 10.51 | 10.61 | 10.64 | 10.62 | 10.56 |
| Distillate Fuel 5/ | 10.92 | 10.18 | 9.35 | 9.99 | 9.59 | 9.32 | 9.49 | 10.02 | 9.92 | 10.09 | 10.16 | 10.27 | 10.12 |
| Jet Fuel 6/ | 7.07 | 6.14 | 5.74 | 6.16 | 5.82 | 5.58 | 5.36 | 5.36 | 5.38 | 5.41 | 5.42 | 5.65 | 5.67 |
| Motor Gasoline 7/ | 12.68 | 12.02 | 11.00 | 11.62 | 11.36 | 11.29 | 11.42 | 11.40 | 11.37 | 11.47 | 11.49 | 11.39 | 11.36 |
| Residual Fuel | 3.06 | 3.60 | 3.82 | 4.10 | 3.82 | 3.69 | 3.72 | 3.74 | 3.76 | 3.78 | 3.81 | 3.83 | 3.85 |
| Liquefied Petroleum Gas 8/ | 18.59 | 19.01 | 16.59 | 17.01 | 16.37 | 16.26 | 15.86 | 16.08 | 16.09 | 16.10 | 16.33 | 16.34 | 16.35 |
| Natural Gas 9/ | 7.73 | 8.24 | 7.22 | 7.55 | 7.35 | 7.24 | 7.28 | 7.44 | 7.61 | 7.79 | 7.97 | 8.08 | 8.19 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 19.08 | 19.16 | 19.39 | 19.60 | 21.14 | 21.42 | 21.79 | 22.02 | 22.09 | 22.18 |
| Electricity | 19.73 | 18.49 | 17.19 | 17.66 | 17.65 | 17.61 | 17.00 | 16.48 | 16.48 | 16.18 | 16.37 | 16.31 | 16.50 |
| Average End-Use Energy | 9.72 | 9.85 | 8.90 | 9.23 | 9.00 | 8.90 | 8.86 | 8.86 | 8.92 | 8.97 | 9.09 | 9.12 | 9.20 |
| Primary Energy | 8.11 | 8.25 | 7.21 | 7.63 | 7.38 | 7.28 | 7.30 | 7.38 | 7.42 | 7.53 | 7.62 | 7.66 | 7.69 |
| Electricity | 17.88 | 17.72 | 17.36 | 17.19 | 17.07 | 16.92 | 16.52 | 16.06 | 16.19 | 15.91 | 16.17 | 16.12 | 16.43 |
| Electric Generators 11/ | | | | | | | | | | | | | |
| Fossil Fuel Average | 1.33 | 1.41 | 1.36 | 1.39 | 1.38 | 1.39 | 1.37 | 1.36 | 1.38 | 1.41 | 1.42 | 1.45 | 1.46 |
| Petroleum Products | 3.93 | 4.71 | 5.34 | 5.84 | 5.13 | 4.94 | 4.85 | 4.85 | 4.90 | 4.93 | 5.00 | 5.17 | 5.21 |
| Distillate Fuel | 6.56 | 5.94 | 5.53 | 5.95 | 5.14 | 4.95 | 4.86 | 4.87 | 4.92 | 4.96 | 5.03 | 5.20 | 5.25 |
| Residual Fuel | 3.50 | 4.41 | 4.15 | 4.46 | 4.04 | 3.91 | 3.95 | 3.97 | 3.99 | 3.97 | 3.99 | 4.02 | 4.05 |
| Natural Gas | 3.54 | 4.20 | 2.78 | 3.12 | 2.96 | 2.90 | 2.83 | 2.89 | 3.01 | 3.17 | 3.32 | 3.42 | 3.51 |
| Steam Coal | 1.21 | 1.24 | 1.20 | 1.20 | 1.19 | 1.21 | 1.19 | 1.18 | 1.17 | 1.17 | 1.16 | 1.15 | 1.14 |
| Average Price to All Users 12/ | | | | | | | | | | | | | |
| Petroleum Products 2/ | 10.66 | 10.13 | 9.23 | 9.83 | 9.53 | 9.40 | 9.48 | 9.58 | 9.58 | 9.67 | 9.73 | 9.75 | 9.73 |

**Table 13. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**East North Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 10.22 | 9.50 | 8.67 | 9.29 | 8.81 | 8.56 | 8.68 | 9.10 | 9.04 | 9.20 | 9.28 | 9.42 | 9.31 |
| Jet Fuel | 7.07 | 6.14 | 5.74 | 6.16 | 5.82 | 5.58 | 5.36 | 5.36 | 5.38 | 5.41 | 5.42 | 5.65 | 5.67 |
| Liquefied Petroleum Gas | 12.67 | 13.97 | 11.72 | 12.16 | 12.48 | 12.40 | 12.04 | 12.30 | 12.34 | 12.39 | 12.64 | 12.68 | 12.73 |
| Motor Gasoline 7/ | 12.68 | 12.02 | 11.00 | 11.62 | 11.35 | 11.28 | 11.42 | 11.40 | 11.37 | 11.47 | 11.49 | 11.39 | 11.36 |
| Residual Fuel | 3.33 | 3.84 | 3.77 | 4.05 | 3.56 | 3.44 | 3.46 | 3.48 | 3.50 | 3.52 | 3.55 | 3.57 | 3.59 |
| Natural Gas | 5.67 | 6.61 | 4.98 | 5.31 | 5.09 | 5.00 | 4.91 | 4.96 | 5.00 | 5.06 | 5.17 | 5.21 | 5.28 |
| Coal | 1.22 | 1.25 | 1.22 | 1.22 | 1.21 | 1.23 | 1.21 | 1.20 | 1.19 | 1.18 | 1.17 | 1.16 | 1.15 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 19.08 | 19.16 | 19.39 | 19.60 | 21.14 | 21.42 | 21.79 | 22.02 | 22.09 | 22.18 |
| Electricity | 17.88 | 17.72 | 17.36 | 17.19 | 17.07 | 16.92 | 16.52 | 16.06 | 16.19 | 15.91 | 16.17 | 16.12 | 16.43 |
| | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | |
| Residential | 25.96 | 27.44 | 24.95 | 26.33 | 26.27 | 26.16 | 26.09 | 26.11 | 26.58 | 26.69 | 27.36 | 27.69 | 28.29 |
| Commercial | 16.47 | 17.93 | 16.77 | 16.69 | 16.76 | 16.82 | 16.59 | 16.47 | 16.75 | 16.76 | 17.20 | 17.41 | 17.84 |
| Industrial | 22.97 | 21.18 | 18.57 | 20.13 | 20.06 | 19.89 | 19.83 | 20.15 | 20.88 | 21.31 | 22.22 | 22.77 | 23.53 |
| Transportation | 44.98 | 42.81 | 39.90 | 42.90 | 42.34 | 42.59 | 44.00 | 45.47 | 46.36 | 47.90 | 49.14 | 50.06 | 50.70 |
| Total Non-Renewable Expenditures | 110.38 | 109.36 | 100.19 | 106.05 | 105.43 | 105.45 | 106.51 | 108.21 | 110.57 | 112.66 | 115.92 | 117.93 | 120.36 |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total Expenditures | 110.38 | 109.36 | 100.19 | 106.05 | 105.43 | 105.46 | 106.51 | 108.21 | 110.58 | 112.67 | 115.93 | 117.94 | 120.37 |

**Table 13. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**East North Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 11.04 | 11.16 | 11.14 | 11.28 | 11.21 | 11.28 | 11.23 | 11.43 | 11.35 | 11.50 | 11.47 | 11.70 | 11.61 | -0.2% |
| Primary Energy 1/ | 7.18 | 7.23 | 7.25 | 7.29 | 7.29 | 7.26 | 7.28 | 7.36 | 7.35 | 7.39 | 7.47 | 7.55 | 7.62 | -0.5% |
| Petroleum Products 2/ | 11.00 | 11.12 | 11.18 | 11.25 | 11.36 | 11.44 | 11.55 | 11.61 | 11.72 | 11.84 | 11.93 | 12.01 | 12.09 | 0.1% |
| Distillate Fuel | 7.66 | 7.86 | 7.91 | 7.97 | 8.15 | 8.27 | 8.45 | 8.49 | 8.66 | 8.81 | 8.92 | 8.97 | 9.07 | 0.2% |
| Liquefied Petroleum Gas | 12.63 | 12.67 | 12.71 | 12.75 | 12.79 | 12.84 | 12.88 | 12.92 | 12.98 | 13.04 | 13.10 | 13.16 | 13.22 | -0.1% |
| Natural Gas | 6.74 | 6.78 | 6.81 | 6.84 | 6.84 | 6.80 | 6.81 | 6.90 | 6.88 | 6.92 | 7.00 | 7.09 | 7.16 | -0.5% |
| Electricity | 20.26 | 20.46 | 20.26 | 20.57 | 20.27 | 20.52 | 20.26 | 20.69 | 20.36 | 20.72 | 20.39 | 20.89 | 20.39 | -0.4% |
| Commercial | 10.95 | 11.14 | 11.16 | 11.39 | 11.32 | 11.47 | 11.40 | 11.70 | 11.59 | 11.83 | 11.76 | 12.10 | 11.95 | -0.1% |
| Primary Energy 1/ | 6.28 | 6.34 | 6.37 | 6.40 | 6.41 | 6.39 | 6.41 | 6.49 | 6.49 | 6.54 | 6.62 | 6.70 | 6.78 | -0.5% |
| Petroleum Products 2/ | 7.79 | 7.93 | 7.98 | 8.04 | 8.19 | 8.28 | 8.42 | 8.46 | 8.59 | 8.71 | 8.81 | 8.86 | 8.97 | 0.0% |
| Distillate Fuel | 5.64 | 5.84 | 5.89 | 5.96 | 6.13 | 6.25 | 6.43 | 6.48 | 6.64 | 6.80 | 6.90 | 6.96 | 7.05 | 0.4% |
| Residual Fuel | 3.46 | 3.49 | 3.51 | 3.53 | 3.56 | 3.58 | 3.60 | 3.63 | 3.66 | 3.70 | 3.73 | 3.76 | 3.80 | 1.2% |
| Natural Gas | 6.26 | 6.31 | 6.34 | 6.37 | 6.37 | 6.34 | 6.35 | 6.44 | 6.43 | 6.47 | 6.55 | 6.64 | 6.72 | -0.5% |
| Electricity | 17.82 | 18.15 | 18.09 | 18.56 | 18.32 | 18.67 | 18.42 | 18.96 | 18.63 | 19.09 | 18.74 | 19.37 | 18.83 | -0.1% |
| Industrial 3/ | 6.12 | 6.26 | 6.29 | 6.41 | 6.41 | 6.50 | 6.52 | 6.63 | 6.60 | 6.74 | 6.75 | 6.93 | 6.90 | 0.4% |
| Primary Energy | 4.56 | 4.65 | 4.69 | 4.74 | 4.79 | 4.81 | 4.87 | 4.88 | 4.91 | 4.97 | 5.05 | 5.11 | 5.18 | 0.4% |
| Petroleum Products 2/ | 6.51 | 6.66 | 6.73 | 6.78 | 6.90 | 6.99 | 7.11 | 6.98 | 7.08 | 7.18 | 7.26 | 7.30 | 7.38 | 0.3% |
| Distillate Fuel | 6.22 | 6.42 | 6.47 | 6.53 | 6.71 | 6.83 | 7.01 | 7.05 | 7.22 | 7.38 | 7.48 | 7.53 | 7.63 | 0.2% |
| Liquefied Petroleum Gas | 12.77 | 12.81 | 12.85 | 12.89 | 12.94 | 12.98 | 13.02 | 13.06 | 13.12 | 13.18 | 13.25 | 13.30 | 13.36 | -0.3% |
| Residual Fuel | 3.56 | 3.58 | 3.61 | 3.63 | 3.66 | 3.68 | 3.70 | 3.73 | 3.76 | 3.79 | 3.83 | 3.86 | 3.90 | 1.0% |
| Natural Gas 4/ | 4.24 | 4.30 | 4.33 | 4.36 | 4.36 | 4.34 | 4.35 | 4.45 | 4.44 | 4.48 | 4.57 | 4.66 | 4.74 | 0.1% |
| Metallurgical Coal | 1.54 | 1.53 | 1.52 | 1.50 | 1.49 | 1.48 | 1.47 | 1.46 | 1.43 | 1.42 | 1.41 | 1.41 | 1.40 | -1.0% |
| Steam Coal | 1.30 | 1.30 | 1.30 | 1.29 | 1.28 | 1.28 | 1.28 | 1.26 | 1.26 | 1.26 | 1.25 | 1.25 | 1.25 | -0.5% |
| Electricity | 12.24 | 12.52 | 12.46 | 12.84 | 12.62 | 12.91 | 12.72 | 13.20 | 12.93 | 13.33 | 13.06 | 13.60 | 13.15 | 0.2% |
| Transportation | 10.51 | 10.50 | 10.49 | 10.53 | 10.71 | 10.74 | 10.74 | 10.72 | 10.78 | 10.86 | 10.96 | 11.00 | 11.21 | 0.1% |
| Primary Energy | 10.49 | 10.49 | 10.47 | 10.51 | 10.69 | 10.72 | 10.72 | 10.70 | 10.76 | 10.84 | 10.94 | 10.98 | 11.20 | 0.1% |
| Petroleum Products 2/ | 10.49 | 10.49 | 10.47 | 10.51 | 10.69 | 10.73 | 10.73 | 10.71 | 10.77 | 10.85 | 10.95 | 10.99 | 11.20 | 0.1% |
| Distillate Fuel 5/ | 9.98 | 9.93 | 9.93 | 9.96 | 10.08 | 10.15 | 10.12 | 10.07 | 10.20 | 10.33 | 10.40 | 10.43 | 10.49 | 0.1% |
| Jet Fuel 6/ | 5.79 | 5.91 | 5.92 | 5.96 | 6.11 | 6.24 | 6.34 | 6.35 | 6.51 | 6.66 | 6.75 | 6.77 | 6.87 | 0.5% |
| Motor Gasoline 7/ | 11.29 | 11.29 | 11.27 | 11.32 | 11.53 | 11.54 | 11.55 | 11.56 | 11.58 | 11.64 | 11.76 | 11.81 | 12.11 | 0.0% |
| Residual Fuel | 3.87 | 3.90 | 3.92 | 3.95 | 3.97 | 3.99 | 4.02 | 4.04 | 4.08 | 4.11 | 4.15 | 4.18 | 4.22 | 0.7% |
| Liquefied Petroleum Gas 8/ | 16.36 | 16.37 | 16.38 | 16.39 | 16.40 | 16.41 | 16.42 | 16.44 | 16.47 | 16.50 | 16.54 | 16.57 | 16.60 | -0.6% |
| Natural Gas 9/ | 8.28 | 8.34 | 8.37 | 8.40 | 8.39 | 8.36 | 8.37 | 8.47 | 8.46 | 8.49 | 8.56 | 8.64 | 8.71 | 0.2% |
| Ethanol (E85) 10/ | 22.25 | 22.35 | 22.42 | 22.52 | 22.62 | 22.69 | 22.75 | 22.87 | 22.92 | 23.03 | 23.14 | 23.47 | 23.40 | 1.2% |
| Electricity | 16.45 | 16.53 | 16.31 | 16.50 | 16.15 | 16.25 | 15.96 | 16.19 | 15.84 | 16.00 | 15.68 | 15.97 | 15.52 | -0.7% |
| Average End-Use Energy | 9.24 | 9.33 | 9.34 | 9.45 | 9.49 | 9.57 | 9.56 | 9.66 | 9.65 | 9.78 | 9.81 | 9.96 | 10.00 | 0.1% |
| Primary Energy | 7.72 | 7.77 | 7.79 | 7.84 | 7.95 | 7.97 | 8.00 | 8.01 | 8.05 | 8.12 | 8.21 | 8.28 | 8.42 | 0.1% |
| Electricity | 16.48 | 16.74 | 16.64 | 17.03 | 16.77 | 17.07 | 16.83 | 17.31 | 17.01 | 17.40 | 17.09 | 17.64 | 17.15 | -0.1% |
| Electric Generators 11/ | | | | | | | | | | | | | | |
| Fossil Fuel Average | 1.48 | 1.49 | 1.51 | 1.53 | 1.55 | 1.57 | 1.60 | 1.63 | 1.67 | 1.70 | 1.75 | 1.76 | 1.80 | 1.0% |
| Petroleum Products | 5.36 | 5.55 | 5.60 | 5.66 | 5.84 | 5.95 | 6.13 | 6.17 | 6.33 | 6.49 | 6.59 | 6.63 | 6.72 | 1.5% |
| Distillate Fuel | 5.40 | 5.60 | 5.65 | 5.72 | 5.89 | 6.01 | 6.19 | 6.24 | 6.40 | 6.56 | 6.66 | 6.72 | 6.81 | 0.6% |
| Residual Fuel | 4.07 | 4.09 | 4.12 | 4.14 | 4.17 | 4.19 | 4.21 | 4.24 | 4.27 | 4.31 | 4.35 | 4.38 | 4.42 | 0.0% |
| Natural Gas | 3.59 | 3.65 | 3.70 | 3.74 | 3.76 | 3.76 | 3.81 | 3.92 | 3.95 | 4.00 | 4.10 | 4.21 | 4.29 | 0.1% |
| Steam Coal | 1.14 | 1.14 | 1.13 | 1.13 | 1.12 | 1.12 | 1.11 | 1.10 | 1.09 | 1.09 | 1.08 | 1.08 | 1.08 | -0.6% |
| Average Price to All Users 12/ | | | | | | | | | | | | | | |
| Petroleum Products 2/ | 9.72 | 9.76 | 9.77 | 9.81 | 9.98 | 10.03 | 10.06 | 10.02 | 10.09 | 10.18 | 10.27 | 10.32 | 10.50 | 0.1% |

**Table 13. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**East North Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 9.25 | 9.25 | 9.26 | 9.30 | 9.44 | 9.53 | 9.54 | 9.51 | 9.65 | 9.79 | 9.87 | 9.90 | 9.97 | 0.2% |
| Jet Fuel | 5.79 | 5.91 | 5.92 | 5.96 | 6.11 | 6.24 | 6.34 | 6.35 | 6.51 | 6.66 | 6.75 | 6.77 | 6.87 | 0.5% |
| Liquefied Petroleum Gas | 12.77 | 12.81 | 12.86 | 12.90 | 12.95 | 12.99 | 13.04 | 13.08 | 13.14 | 13.20 | 13.26 | 13.32 | 13.39 | -0.2% |
| Motor Gasoline 7/ | 11.29 | 11.29 | 11.27 | 11.32 | 11.53 | 11.54 | 11.55 | 11.56 | 11.58 | 11.64 | 11.76 | 11.81 | 12.11 | 0.0% |
| Residual Fuel | 3.61 | 3.64 | 3.66 | 3.68 | 3.71 | 3.73 | 3.75 | 3.78 | 3.81 | 3.85 | 3.88 | 3.91 | 3.95 | 0.1% |
| Natural Gas | 5.32 | 5.37 | 5.38 | 5.41 | 5.39 | 5.34 | 5.34 | 5.43 | 5.39 | 5.42 | 5.48 | 5.58 | 5.65 | -0.7% |
| Coal | 1.15 | 1.15 | 1.14 | 1.14 | 1.13 | 1.13 | 1.12 | 1.11 | 1.10 | 1.10 | 1.10 | 1.09 | 1.09 | -0.6% |
| Ethanol (E85) 10/ | 22.25 | 22.35 | 22.42 | 22.52 | 22.62 | 22.69 | 22.75 | 22.87 | 22.92 | 23.03 | 23.14 | 23.47 | 23.40 | 1.2% |
| Electricity | 16.48 | 16.74 | 16.64 | 17.03 | 16.77 | 17.07 | 16.83 | 17.31 | 17.01 | 17.40 | 17.09 | 17.64 | 17.15 | -0.1% |
| | | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | | |
| Residential | 28.53 | 28.98 | 29.14 | 29.75 | 29.69 | 30.11 | 30.23 | 31.06 | 30.97 | 31.62 | 31.81 | 32.76 | 32.70 | 0.7% |
| Commercial | 18.11 | 18.53 | 18.69 | 19.23 | 19.28 | 19.74 | 19.84 | 20.57 | 20.61 | 21.30 | 21.46 | 22.36 | 22.40 | 0.9% |
| Industrial | 24.12 | 24.91 | 25.19 | 25.80 | 25.99 | 26.61 | 26.95 | 27.70 | 27.83 | 28.77 | 29.09 | 30.26 | 30.39 | 1.5% |
| Transportation | 51.19 | 51.95 | 52.52 | 53.35 | 54.89 | 55.71 | 56.44 | 56.91 | 57.77 | 58.86 | 60.12 | 61.14 | 63.07 | 1.6% |
| Total Non-Renewable Expenditures | 121.95 | 124.36 | 125.54 | 128.13 | 129.85 | 132.17 | 133.45 | 136.23 | 137.19 | 140.56 | 142.48 | 146.52 | 148.56 | 1.3% |
| Transportation Renewable Expenditures | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 9.6% |
| Total Expenditures | 121.96 | 124.37 | 125.55 | 128.14 | 129.86 | 132.18 | 133.47 | 136.25 | 137.20 | 140.57 | 142.50 | 146.54 | 148.58 | 1.3% |

**Table 13. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**East North Central**

1/ Weighted average price includes fuels below as well as coal.
2/ This quantity is the weighted average for all petroleum products, not just those listed below.
3/ Includes combined heat and power.
4/ Excludes uses for lease and plant fuel.
5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
8/ Includes Federal and State taxes while excluding county and local taxes.
9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
11/ Includes combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
Note: Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports.
Sources: 2000 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2000, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2001). 2001 prices for motor gasoline, distillate, and jet fuel are based on the Petroleum Marketing Annual 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (Setember 2002). 2000 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002). 2000 and 2001 electric power prices: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2000 and 2001 industrial gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2000 and 2001 coal prices based on EIA, Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. 2000 and 2001 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 14. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**West North Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 12.86 | 13.76 | 12.16 | 12.23 | 12.22 | 12.19 | 11.99 | 11.92 | 11.97 | 12.12 | 12.30 | 12.38 | 12.34 |
| Primary Energy 1/ | 8.02 | 9.46 | 7.28 | 7.53 | 7.40 | 7.29 | 7.18 | 7.23 | 7.27 | 7.32 | 7.42 | 7.47 | 7.51 |
| Petroleum Products 2/ | 10.20 | 10.77 | 9.18 | 9.66 | 9.65 | 9.44 | 9.14 | 9.33 | 9.37 | 9.40 | 9.61 | 9.68 | 9.72 |
| Distillate Fuel | 8.38 | 7.83 | 7.21 | 8.15 | 7.46 | 6.90 | 6.82 | 6.82 | 6.88 | 6.92 | 7.02 | 7.19 | 7.24 |
| Liquefied Petroleum Gas | 10.64 | 11.59 | 9.66 | 10.09 | 10.28 | 10.18 | 9.81 | 10.07 | 10.10 | 10.14 | 10.39 | 10.43 | 10.47 |
| Natural Gas | 7.40 | 9.11 | 6.75 | 6.99 | 6.85 | 6.77 | 6.71 | 6.73 | 6.77 | 6.83 | 6.92 | 6.97 | 7.02 |
| Electricity | 22.50 | 21.75 | 21.27 | 20.91 | 21.09 | 21.09 | 20.63 | 20.22 | 20.15 | 20.33 | 20.53 | 20.57 | 20.27 |
| Commercial | 11.74 | 12.50 | 11.37 | 11.17 | 11.10 | 11.04 | 10.85 | 10.76 | 10.84 | 11.06 | 11.21 | 11.36 | 11.25 |
| Primary Energy 1/ | 6.46 | 7.78 | 5.78 | 5.87 | 5.73 | 5.67 | 5.64 | 5.70 | 5.78 | 5.87 | 5.99 | 6.05 | 6.11 |
| Petroleum Products 2/ | 8.82 | 8.69 | 7.89 | 8.17 | 7.71 | 7.55 | 7.45 | 7.54 | 7.60 | 7.64 | 7.75 | 7.86 | 7.90 |
| Distillate Fuel | 6.93 | 6.26 | 5.70 | 6.14 | 5.40 | 5.21 | 5.13 | 5.13 | 5.19 | 5.23 | 5.32 | 5.50 | 5.55 |
| Residual Fuel | 2.71 | 2.65 | 3.53 | 3.81 | 3.39 | 3.27 | 3.29 | 3.31 | 3.34 | 3.36 | 3.38 | 3.40 | 3.43 |
| Natural Gas | 6.33 | 7.89 | 5.65 | 5.74 | 5.63 | 5.59 | 5.56 | 5.63 | 5.71 | 5.81 | 5.94 | 6.00 | 6.06 |
| Electricity | 18.66 | 18.44 | 18.29 | 17.83 | 17.85 | 17.72 | 17.28 | 16.90 | 16.90 | 17.18 | 17.29 | 17.47 | 17.10 |
| Industrial 3/ | 6.73 | 6.52 | 5.93 | 6.23 | 6.16 | 6.08 | 5.99 | 6.02 | 6.08 | 6.16 | 6.28 | 6.34 | 6.36 |
| Primary Energy | 5.44 | 5.32 | 4.79 | 5.06 | 4.97 | 4.86 | 4.78 | 4.84 | 4.89 | 4.95 | 5.06 | 5.14 | 5.18 |
| Petroleum Products 2/ | 7.16 | 6.80 | 6.47 | 6.93 | 6.82 | 6.65 | 6.54 | 6.60 | 6.65 | 6.70 | 6.85 | 6.95 | 7.00 |
| Distillate Fuel | 7.70 | 6.62 | 6.23 | 6.66 | 5.95 | 5.76 | 5.68 | 5.68 | 5.74 | 5.78 | 5.87 | 6.05 | 6.10 |
| Liquefied Petroleum Gas | 9.76 | 10.31 | 8.94 | 9.37 | 9.43 | 9.33 | 8.96 | 9.22 | 9.26 | 9.29 | 9.54 | 9.59 | 9.63 |
| Residual Fuel | 2.65 | 2.58 | 3.53 | 3.81 | 3.42 | 3.30 | 3.32 | 3.34 | 3.36 | 3.39 | 3.41 | 3.43 | 3.45 |
| Natural Gas 4/ | 5.22 | 5.39 | 4.05 | 4.25 | 4.12 | 4.05 | 4.00 | 4.05 | 4.12 | 4.21 | 4.32 | 4.40 | 4.46 |
| Metallurgical Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Steam Coal | 1.23 | 1.24 | 1.27 | 1.25 | 1.23 | 1.22 | 1.21 | 1.20 | 1.19 | 1.18 | 1.17 | 1.16 | 1.15 |
| Electricity | 12.45 | 11.99 | 11.59 | 11.76 | 11.83 | 11.82 | 11.61 | 11.42 | 11.43 | 11.59 | 11.69 | 11.65 | 11.49 |
| Transportation | 11.28 | 10.62 | 9.86 | 10.47 | 10.18 | 10.04 | 10.18 | 10.30 | 10.27 | 10.39 | 10.43 | 10.42 | 10.35 |
| Primary Energy | 11.26 | 10.60 | 9.84 | 10.45 | 10.16 | 10.03 | 10.16 | 10.29 | 10.25 | 10.37 | 10.41 | 10.40 | 10.34 |
| Petroleum Products 2/ | 11.26 | 10.61 | 9.84 | 10.45 | 10.17 | 10.03 | 10.16 | 10.29 | 10.26 | 10.38 | 10.42 | 10.41 | 10.34 |
| Distillate Fuel 5/ | 10.69 | 10.04 | 9.20 | 9.83 | 9.55 | 9.28 | 9.46 | 9.97 | 9.89 | 10.05 | 10.16 | 10.27 | 10.12 |
| Jet Fuel 6/ | 7.28 | 6.39 | 6.07 | 6.49 | 6.22 | 5.98 | 5.77 | 5.76 | 5.79 | 5.82 | 5.83 | 6.04 | 6.05 |
| Motor Gasoline 7/ | 12.21 | 11.55 | 10.72 | 11.34 | 11.04 | 10.97 | 11.14 | 11.11 | 11.09 | 11.20 | 11.22 | 11.12 | 11.09 |
| Residual Fuel | 3.26 | 2.86 | 2.99 | 3.27 | 2.73 | 2.60 | 2.63 | 2.65 | 2.67 | 2.70 | 2.72 | 2.74 | 2.76 |
| Liquefied Petroleum Gas 8/ | 14.63 | 15.15 | 13.58 | 14.01 | 13.55 | 13.42 | 13.03 | 13.26 | 13.27 | 13.28 | 13.50 | 13.52 | 13.53 |
| Natural Gas 9/ | 6.66 | 7.24 | 6.08 | 6.32 | 6.18 | 6.10 | 6.21 | 6.40 | 6.61 | 6.81 | 7.00 | 7.14 | 7.26 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 18.68 | 19.07 | 19.30 | 19.51 | 21.05 | 21.33 | 21.70 | 21.93 | 22.00 | 22.09 |
| Electricity | 18.70 | 17.96 | 17.24 | 17.40 | 17.43 | 17.33 | 16.92 | 16.56 | 16.48 | 16.62 | 16.70 | 16.64 | 16.31 |
| Average End-Use Energy | 10.25 | 10.25 | 9.37 | 9.69 | 9.53 | 9.44 | 9.41 | 9.44 | 9.47 | 9.59 | 9.68 | 9.72 | 9.68 |
| Primary Energy | 8.63 | 8.67 | 7.65 | 8.08 | 7.87 | 7.77 | 7.81 | 7.92 | 7.95 | 8.05 | 8.14 | 8.18 | 8.18 |
| Electricity | 17.99 | 17.69 | 17.51 | 17.23 | 17.30 | 17.25 | 16.86 | 16.51 | 16.47 | 16.67 | 16.79 | 16.84 | 16.55 |
| Electric Generators 11/ | | | | | | | | | | | | | |
| Fossil Fuel Average | 1.02 | 1.05 | 0.97 | 0.99 | 0.97 | 0.96 | 0.96 | 0.94 | 0.95 | 0.95 | 0.95 | 0.96 | 0.96 |
| Petroleum Products | 6.00 | 5.22 | 5.47 | 5.98 | 5.18 | 4.99 | 4.91 | 4.89 | 4.83 | 4.83 | 4.92 | 5.07 | 5.13 |
| Distillate Fuel | 6.67 | 6.18 | 5.57 | 5.99 | 5.22 | 5.03 | 4.94 | 4.95 | 5.00 | 5.05 | 5.14 | 5.32 | 5.36 |
| Residual Fuel | 4.50 | 4.13 | 3.34 | 3.63 | 3.06 | 2.93 | 2.96 | 2.98 | 3.00 | 3.02 | 3.05 | 3.07 | 3.09 |
| Natural Gas | 4.37 | 4.26 | 3.25 | 3.45 | 3.31 | 3.25 | 3.21 | 3.22 | 3.38 | 3.50 | 3.63 | 3.73 | 3.82 |
| Steam Coal | 0.86 | 0.92 | 0.87 | 0.88 | 0.88 | 0.90 | 0.89 | 0.89 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 |
| Average Price to All Users 12/ | | | | | | | | | | | | | |
| Petroleum Products 2/ | 10.28 | 9.77 | 9.07 | 9.66 | 9.42 | 9.29 | 9.36 | 9.48 | 9.47 | 9.58 | 9.65 | 9.67 | 9.64 |

**Table 14. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**West North Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 9.83 | 9.10 | 8.40 | 9.01 | 8.62 | 8.38 | 8.50 | 8.89 | 8.85 | 8.99 | 9.11 | 9.25 | 9.15 |
| Jet Fuel | 7.28 | 6.39 | 6.07 | 6.49 | 6.22 | 5.98 | 5.77 | 5.76 | 5.79 | 5.82 | 5.83 | 6.04 | 6.05 |
| Liquefied Petroleum Gas | 10.15 | 10.89 | 9.29 | 9.70 | 9.82 | 9.73 | 9.36 | 9.61 | 9.65 | 9.68 | 9.92 | 9.96 | 9.99 |
| Motor Gasoline 7/ | 12.22 | 11.55 | 10.72 | 11.34 | 11.03 | 10.96 | 11.14 | 11.11 | 11.09 | 11.20 | 11.22 | 11.12 | 11.09 |
| Residual Fuel | 3.27 | 3.26 | 3.51 | 3.80 | 3.39 | 3.27 | 3.30 | 3.32 | 3.32 | 3.33 | 3.35 | 3.38 | 3.40 |
| Natural Gas | 6.23 | 7.36 | 5.40 | 5.59 | 5.47 | 5.44 | 5.38 | 5.44 | 5.48 | 5.55 | 5.65 | 5.71 | 5.75 |
| Coal | 0.90 | 0.95 | 0.91 | 0.91 | 0.91 | 0.93 | 0.92 | 0.91 | 0.91 | 0.90 | 0.90 | 0.90 | 0.89 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 18.68 | 19.07 | 19.30 | 19.51 | 21.05 | 21.33 | 21.70 | 21.93 | 22.00 | 22.09 |
| Electricity | 17.99 | 17.69 | 17.51 | 17.23 | 17.30 | 17.25 | 16.86 | 16.51 | 16.47 | 16.67 | 16.79 | 16.84 | 16.55 |
| | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | |
| Residential | 11.58 | 12.13 | 11.04 | 11.42 | 11.58 | 11.60 | 11.51 | 11.54 | 11.71 | 11.90 | 12.14 | 12.29 | 12.35 |
| Commercial | 8.26 | 9.00 | 8.32 | 8.32 | 8.46 | 8.54 | 8.51 | 8.53 | 8.68 | 8.92 | 9.11 | 9.31 | 9.33 |
| Industrial | 9.61 | 8.82 | 7.99 | 8.49 | 8.55 | 8.47 | 8.43 | 8.61 | 8.82 | 9.11 | 9.47 | 9.74 | 9.90 |
| Transportation | 22.54 | 21.44 | 20.14 | 21.83 | 21.65 | 21.82 | 22.65 | 23.52 | 24.03 | 24.91 | 25.64 | 26.20 | 26.57 |
| Total Non-Renewable Expenditures | 51.99 | 51.40 | 47.49 | 50.06 | 50.23 | 50.42 | 51.10 | 52.21 | 53.25 | 54.84 | 56.36 | 57.54 | 58.16 |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Expenditures | 51.99 | 51.40 | 47.49 | 50.07 | 50.24 | 50.42 | 51.11 | 52.21 | 53.25 | 54.84 | 56.36 | 57.55 | 58.16 |

**Table 14. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**West North Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 12.41 | 12.48 | 12.51 | 12.54 | 12.56 | 12.55 | 12.56 | 12.61 | 12.61 | 12.67 | 12.79 | 12.93 | 12.97 | -0.2% |
| Primary Energy 1/ | 7.56 | 7.63 | 7.68 | 7.70 | 7.69 | 7.68 | 7.69 | 7.74 | 7.70 | 7.74 | 7.83 | 7.97 | 8.09 | -0.7% |
| Petroleum Products 2/ | 9.79 | 9.87 | 9.91 | 9.96 | 10.03 | 10.09 | 10.16 | 10.20 | 10.29 | 10.37 | 10.44 | 10.50 | 10.57 | -0.1% |
| Distillate Fuel | 7.39 | 7.60 | 7.64 | 7.71 | 7.89 | 8.01 | 8.19 | 8.24 | 8.40 | 8.56 | 8.67 | 8.72 | 8.82 | 0.5% |
| Liquefied Petroleum Gas | 10.51 | 10.56 | 10.60 | 10.64 | 10.69 | 10.73 | 10.77 | 10.82 | 10.88 | 10.94 | 11.01 | 11.07 | 11.13 | -0.2% |
| Natural Gas | 7.07 | 7.15 | 7.20 | 7.23 | 7.20 | 7.18 | 7.18 | 7.24 | 7.18 | 7.22 | 7.32 | 7.47 | 7.60 | -0.8% |
| Electricity | 20.32 | 20.27 | 20.18 | 20.17 | 20.18 | 20.10 | 20.05 | 20.04 | 20.08 | 20.13 | 20.24 | 20.32 | 20.18 | -0.3% |
| Commercial | 11.35 | 11.41 | 11.45 | 11.53 | 11.56 | 11.57 | 11.61 | 11.71 | 11.76 | 11.86 | 12.04 | 12.25 | 12.24 | -0.1% |
| Primary Energy 1/ | 6.15 | 6.24 | 6.29 | 6.32 | 6.31 | 6.31 | 6.32 | 6.38 | 6.34 | 6.39 | 6.49 | 6.64 | 6.76 | -0.6% |
| Petroleum Products 2/ | 7.99 | 8.12 | 8.15 | 8.21 | 8.35 | 8.43 | 8.55 | 8.59 | 8.70 | 8.82 | 8.91 | 8.97 | 9.09 | 0.2% |
| Distillate Fuel | 5.70 | 5.90 | 5.95 | 6.02 | 6.20 | 6.32 | 6.50 | 6.54 | 6.71 | 6.87 | 6.98 | 7.03 | 7.13 | 0.5% |
| Residual Fuel | 3.45 | 3.47 | 3.49 | 3.52 | 3.54 | 3.56 | 3.59 | 3.61 | 3.65 | 3.68 | 3.71 | 3.75 | 3.78 | 1.5% |
| Natural Gas | 6.10 | 6.19 | 6.24 | 6.28 | 6.25 | 6.24 | 6.25 | 6.31 | 6.26 | 6.30 | 6.40 | 6.56 | 6.70 | -0.7% |
| Electricity | 17.19 | 17.13 | 17.10 | 17.17 | 17.20 | 17.17 | 17.18 | 17.28 | 17.36 | 17.47 | 17.68 | 17.88 | 17.65 | -0.2% |
| Industrial 3/ | 6.44 | 6.53 | 6.58 | 6.62 | 6.68 | 6.72 | 6.78 | 6.81 | 6.85 | 6.92 | 7.02 | 7.11 | 7.18 | 0.4% |
| Primary Energy | 5.27 | 5.38 | 5.44 | 5.48 | 5.54 | 5.58 | 5.65 | 5.68 | 5.71 | 5.79 | 5.87 | 5.95 | 6.05 | 0.5% |
| Petroleum Products 2/ | 7.14 | 7.29 | 7.36 | 7.42 | 7.54 | 7.63 | 7.75 | 7.74 | 7.86 | 7.97 | 8.06 | 8.12 | 8.21 | 0.8% |
| Distillate Fuel | 6.25 | 6.45 | 6.50 | 6.57 | 6.75 | 6.87 | 7.05 | 7.09 | 7.26 | 7.42 | 7.53 | 7.58 | 7.68 | 0.6% |
| Liquefied Petroleum Gas | 9.67 | 9.71 | 9.75 | 9.80 | 9.84 | 9.88 | 9.93 | 9.97 | 10.03 | 10.10 | 10.16 | 10.22 | 10.28 | 0.0% |
| Residual Fuel | 3.48 | 3.50 | 3.52 | 3.55 | 3.57 | 3.59 | 3.62 | 3.64 | 3.67 | 3.71 | 3.74 | 3.78 | 3.81 | 1.6% |
| Natural Gas 4/ | 4.51 | 4.61 | 4.66 | 4.70 | 4.67 | 4.66 | 4.68 | 4.75 | 4.69 | 4.72 | 4.82 | 4.99 | 5.12 | -0.2% |
| Metallurgical Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Steam Coal | 1.15 | 1.14 | 1.14 | 1.13 | 1.12 | 1.12 | 1.11 | 1.10 | 1.10 | 1.09 | 1.09 | 1.08 | 1.08 | -0.6% |
| Electricity | 11.51 | 11.50 | 11.46 | 11.49 | 11.52 | 11.50 | 11.51 | 11.56 | 11.61 | 11.68 | 11.79 | 11.89 | 11.80 | -0.1% |
| Transportation | 10.27 | 10.27 | 10.25 | 10.29 | 10.47 | 10.51 | 10.51 | 10.49 | 10.55 | 10.64 | 10.74 | 10.78 | 10.99 | 0.1% |
| Primary Energy | 10.26 | 10.26 | 10.24 | 10.28 | 10.46 | 10.50 | 10.50 | 10.48 | 10.54 | 10.63 | 10.73 | 10.77 | 10.98 | 0.1% |
| Petroleum Products 2/ | 10.26 | 10.26 | 10.24 | 10.28 | 10.47 | 10.50 | 10.51 | 10.48 | 10.55 | 10.63 | 10.74 | 10.78 | 10.99 | 0.1% |
| Distillate Fuel 5/ | 9.99 | 9.94 | 9.93 | 9.96 | 10.09 | 10.16 | 10.14 | 10.08 | 10.22 | 10.35 | 10.42 | 10.45 | 10.51 | 0.2% |
| Jet Fuel 6/ | 6.16 | 6.27 | 6.27 | 6.29 | 6.44 | 6.56 | 6.66 | 6.66 | 6.82 | 6.96 | 7.05 | 7.07 | 7.16 | 0.5% |
| Motor Gasoline 7/ | 11.00 | 11.01 | 10.98 | 11.04 | 11.26 | 11.27 | 11.27 | 11.28 | 11.31 | 11.37 | 11.49 | 11.55 | 11.85 | 0.1% |
| Residual Fuel | 2.79 | 2.81 | 2.83 | 2.86 | 2.88 | 2.91 | 2.93 | 2.95 | 2.99 | 3.02 | 3.06 | 3.09 | 3.13 | 0.4% |
| Liquefied Petroleum Gas 8/ | 13.54 | 13.55 | 13.56 | 13.57 | 13.59 | 13.60 | 13.61 | 13.63 | 13.66 | 13.70 | 13.73 | 13.77 | 13.80 | -0.4% |
| Natural Gas 9/ | 7.35 | 7.48 | 7.55 | 7.60 | 7.59 | 7.59 | 7.62 | 7.71 | 7.65 | 7.70 | 7.81 | 7.98 | 8.12 | 0.5% |
| Ethanol (E85) 10/ | 22.16 | 22.26 | 22.57 | 22.66 | 22.76 | 22.82 | 22.89 | 22.98 | 23.03 | 23.12 | 23.25 | 23.38 | 23.55 | 1.2% |
| Electricity | 16.28 | 16.15 | 16.00 | 15.92 | 15.82 | 15.65 | 15.54 | 15.43 | 15.33 | 15.27 | 15.26 | 15.23 | 15.01 | -0.7% |
| Average End-Use Energy | 9.70 | 9.74 | 9.76 | 9.81 | 9.91 | 9.94 | 9.96 | 9.98 | 10.03 | 10.11 | 10.22 | 10.31 | 10.43 | 0.1% |
| Primary Energy | 8.19 | 8.24 | 8.27 | 8.31 | 8.43 | 8.46 | 8.49 | 8.50 | 8.54 | 8.62 | 8.72 | 8.80 | 8.97 | 0.1% |
| Electricity | 16.60 | 16.56 | 16.51 | 16.55 | 16.57 | 16.53 | 16.52 | 16.57 | 16.63 | 16.70 | 16.85 | 16.97 | 16.81 | -0.2% |
| Electric Generators 11/ | | | | | | | | | | | | | | |
| Fossil Fuel Average | 0.97 | 0.96 | 0.95 | 0.95 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.92 | -0.6% |
| Petroleum Products | 5.27 | 5.52 | 5.58 | 5.66 | 5.80 | 5.93 | 6.10 | 6.15 | 6.31 | 6.45 | 6.58 | 6.62 | 6.70 | 1.0% |
| Distillate Fuel | 5.52 | 5.72 | 5.77 | 5.83 | 6.01 | 6.13 | 6.32 | 6.36 | 6.53 | 6.69 | 6.79 | 6.85 | 6.94 | 0.5% |
| Residual Fuel | 3.11 | 3.14 | 3.16 | 3.18 | 3.21 | 3.23 | 3.25 | 3.28 | 3.31 | 3.35 | 3.38 | 3.41 | 3.45 | -0.7% |
| Natural Gas | 3.94 | 4.03 | 4.07 | 4.11 | 4.08 | 4.08 | 4.10 | 4.19 | 4.12 | 4.15 | 4.24 | 4.40 | 4.52 | 0.3% |
| Steam Coal | 0.87 | 0.87 | 0.86 | 0.86 | 0.85 | 0.85 | 0.85 | 0.84 | 0.84 | 0.84 | 0.83 | 0.83 | 0.83 | -0.4% |
| Average Price to All Users 12/ | | | | | | | | | | | | | | |
| Petroleum Products 2/ | 9.62 | 9.65 | 9.66 | 9.71 | 9.88 | 9.93 | 9.96 | 9.94 | 10.02 | 10.11 | 10.21 | 10.26 | 10.44 | 0.3% |

**Table 14. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**West North Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 9.10 | 9.12 | 9.13 | 9.17 | 9.32 | 9.40 | 9.43 | 9.40 | 9.54 | 9.68 | 9.77 | 9.81 | 9.88 | 0.3% |
| Jet Fuel | 6.16 | 6.27 | 6.27 | 6.29 | 6.44 | 6.56 | 6.66 | 6.66 | 6.82 | 6.96 | 7.05 | 7.07 | 7.16 | 0.5% |
| Liquefied Petroleum Gas | 10.03 | 10.07 | 10.11 | 10.16 | 10.20 | 10.24 | 10.28 | 10.32 | 10.38 | 10.44 | 10.50 | 10.56 | 10.62 | -0.1% |
| Motor Gasoline 7/ | 11.00 | 11.01 | 10.98 | 11.04 | 11.26 | 11.27 | 11.27 | 11.28 | 11.31 | 11.37 | 11.50 | 11.55 | 11.85 | 0.1% |
| Residual Fuel | 3.42 | 3.46 | 3.48 | 3.51 | 3.53 | 3.55 | 3.57 | 3.60 | 3.63 | 3.67 | 3.70 | 3.73 | 3.77 | 0.6% |
| Natural Gas | 5.79 | 5.89 | 5.94 | 5.97 | 5.95 | 5.93 | 5.94 | 6.00 | 5.93 | 5.96 | 6.06 | 6.23 | 6.38 | -0.6% |
| Coal | 0.89 | 0.89 | 0.88 | 0.88 | 0.87 | 0.87 | 0.87 | 0.86 | 0.86 | 0.85 | 0.85 | 0.85 | 0.85 | -0.5% |
| Ethanol (E85) 10/ | 22.16 | 22.26 | 22.57 | 22.66 | 22.76 | 22.82 | 22.89 | 22.98 | 23.03 | 23.12 | 23.25 | 23.38 | 23.55 | 1.2% |
| Electricity | 16.60 | 16.56 | 16.51 | 16.55 | 16.57 | 16.53 | 16.52 | 16.57 | 16.63 | 16.70 | 16.85 | 16.97 | 16.81 | -0.2% |
| | | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | | |
| Residential | 12.48 | 12.63 | 12.75 | 12.91 | 13.00 | 13.10 | 13.23 | 13.44 | 13.54 | 13.74 | 14.00 | 14.31 | 14.44 | 0.7% |
| Commercial | 9.53 | 9.70 | 9.86 | 10.06 | 10.22 | 10.36 | 10.53 | 10.74 | 10.89 | 11.08 | 11.32 | 11.56 | 11.56 | 1.0% |
| Industrial | 10.12 | 10.38 | 10.53 | 10.67 | 10.86 | 11.02 | 11.27 | 11.44 | 11.62 | 11.90 | 12.19 | 12.52 | 12.78 | 1.6% |
| Transportation | 26.85 | 27.29 | 27.65 | 28.13 | 29.01 | 29.51 | 29.95 | 30.23 | 30.77 | 31.42 | 32.17 | 32.79 | 33.88 | 1.9% |
| Total Non-Renewable Expenditures | 58.98 | 60.00 | 60.78 | 61.77 | 63.10 | 63.99 | 64.98 | 65.86 | 66.83 | 68.15 | 69.69 | 71.18 | 72.66 | 1.5% |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 10.0% |
| Total Expenditures | 58.99 | 60.01 | 60.79 | 61.77 | 63.10 | 64.00 | 64.99 | 65.86 | 66.84 | 68.15 | 69.69 | 71.18 | 72.66 | 1.5% |

**Table 14. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**West North Central**

1/ Weighted average price includes fuels below as well as coal.
2/ This quantity is the weighted average for all petroleum products, not just those listed below.
3/ Includes combined heat and power.
4/ Excludes uses for lease and plant fuel.
5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
8/ Includes Federal and State taxes while excluding county and local taxes.
9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
11/ Includes combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
Note: Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports.
Sources: 2000 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2000, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2001). 2001 prices for motor gasoline, distillate, and jet fuel are based on the Petroleum Marketing Annual 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (Setember 2002). 2000 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002). 2000 and 2001 electric power prices: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2000 and 2001 industrial gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2000 and 2001 coal prices based on EIA, Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. 2000 and 2001 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 15. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**South Atlantic**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 17.98 | 18.96 | 17.70 | 17.28 | 17.32 | 17.26 | 16.93 | 16.73 | 16.69 | 16.72 | 16.93 | 17.04 | 17.10 |
| Primary Energy 1/ | 10.25 | 11.40 | 9.26 | 9.58 | 9.38 | 9.16 | 9.00 | 9.02 | 9.04 | 9.09 | 9.20 | 9.27 | 9.31 |
| Petroleum Products 2/ | 12.58 | 12.41 | 11.23 | 11.62 | 11.88 | 11.57 | 11.36 | 11.48 | 11.54 | 11.60 | 11.77 | 11.92 | 12.00 |
| Distillate Fuel | 9.66 | 9.00 | 8.20 | 9.14 | 8.41 | 7.86 | 7.78 | 7.78 | 7.83 | 7.88 | 7.94 | 8.12 | 8.16 |
| Liquefied Petroleum Gas | 16.50 | 17.53 | 14.73 | 15.15 | 16.57 | 16.47 | 16.10 | 16.36 | 16.39 | 16.43 | 16.68 | 16.72 | 16.76 |
| Natural Gas | 9.23 | 10.96 | 8.45 | 8.79 | 8.45 | 8.30 | 8.17 | 8.18 | 8.21 | 8.27 | 8.39 | 8.45 | 8.51 |
| Electricity | 23.41 | 24.02 | 23.24 | 22.41 | 22.59 | 22.59 | 22.15 | 21.78 | 21.67 | 21.65 | 21.89 | 22.00 | 22.04 |
| Commercial | 14.96 | 15.92 | 15.01 | 14.60 | 14.51 | 14.46 | 14.19 | 14.05 | 14.09 | 14.21 | 14.47 | 14.64 | 14.78 |
| Primary Energy 1/ | 7.56 | 8.72 | 6.78 | 7.03 | 6.72 | 6.61 | 6.53 | 6.60 | 6.68 | 6.77 | 6.93 | 7.02 | 7.09 |
| Petroleum Products 2/ | 8.30 | 7.62 | 7.24 | 7.57 | 7.06 | 6.89 | 6.77 | 6.80 | 6.85 | 6.88 | 6.95 | 7.09 | 7.12 |
| Distillate Fuel | 7.12 | 6.18 | 5.74 | 6.16 | 5.37 | 5.20 | 5.11 | 5.11 | 5.17 | 5.21 | 5.28 | 5.45 | 5.50 |
| Residual Fuel | 3.30 | 3.23 | 3.84 | 4.12 | 3.76 | 3.64 | 3.66 | 3.69 | 3.71 | 3.73 | 3.75 | 3.77 | 3.80 |
| Natural Gas | 7.58 | 9.25 | 6.84 | 7.09 | 6.82 | 6.71 | 6.64 | 6.72 | 6.80 | 6.92 | 7.09 | 7.18 | 7.26 |
| Electricity | 19.96 | 20.59 | 20.11 | 19.38 | 19.45 | 19.44 | 19.02 | 18.70 | 18.67 | 18.75 | 19.03 | 19.21 | 19.33 |
| Industrial 3/ | 6.67 | 6.54 | 5.85 | 6.16 | 6.04 | 5.96 | 5.90 | 5.91 | 5.98 | 6.03 | 6.16 | 6.25 | 6.33 |
| Primary Energy | 4.73 | 4.55 | 3.98 | 4.31 | 4.09 | 3.97 | 3.93 | 3.97 | 4.03 | 4.09 | 4.21 | 4.31 | 4.38 |
| Petroleum Products 2/ | 6.34 | 5.65 | 5.47 | 5.91 | 5.68 | 5.52 | 5.51 | 5.52 | 5.58 | 5.61 | 5.71 | 5.83 | 5.88 |
| Distillate Fuel | 7.38 | 6.40 | 6.04 | 6.46 | 5.64 | 5.46 | 5.38 | 5.38 | 5.43 | 5.48 | 5.55 | 5.72 | 5.77 |
| Liquefied Petroleum Gas | 11.69 | 12.31 | 11.16 | 11.58 | 12.73 | 12.64 | 12.27 | 12.52 | 12.56 | 12.59 | 12.84 | 12.89 | 12.93 |
| Residual Fuel | 3.55 | 3.48 | 3.89 | 4.18 | 3.85 | 3.72 | 3.75 | 3.77 | 3.79 | 3.82 | 3.84 | 3.86 | 3.88 |
| Natural Gas 4/ | 4.45 | 4.71 | 3.33 | 3.73 | 3.45 | 3.33 | 3.25 | 3.33 | 3.42 | 3.53 | 3.71 | 3.81 | 3.93 |
| Metallurgical Coal | 1.56 | 1.62 | 1.54 | 1.53 | 1.51 | 1.50 | 1.49 | 1.47 | 1.45 | 1.44 | 1.43 | 1.41 | 1.41 |
| Steam Coal | 1.67 | 1.72 | 1.74 | 1.73 | 1.71 | 1.70 | 1.70 | 1.69 | 1.67 | 1.66 | 1.65 | 1.64 | 1.62 |
| Electricity | 13.00 | 13.17 | 12.63 | 12.60 | 12.72 | 12.72 | 12.51 | 12.33 | 12.32 | 12.28 | 12.40 | 12.39 | 12.44 |
| Transportation | 10.86 | 9.99 | 9.64 | 10.24 | 9.95 | 9.83 | 9.95 | 10.04 | 10.01 | 10.12 | 10.16 | 10.14 | 10.09 |
| Primary Energy | 10.83 | 9.96 | 9.61 | 10.22 | 9.92 | 9.81 | 9.92 | 10.02 | 9.99 | 10.10 | 10.13 | 10.11 | 10.06 |
| Petroleum Products 2/ | 10.83 | 9.96 | 9.61 | 10.22 | 9.93 | 9.81 | 9.93 | 10.02 | 9.99 | 10.10 | 10.14 | 10.12 | 10.07 |
| Distillate Fuel 5/ | 10.55 | 9.66 | 8.89 | 9.52 | 9.31 | 9.05 | 9.23 | 9.74 | 9.66 | 9.82 | 9.90 | 10.01 | 9.86 |
| Jet Fuel 6/ | 7.32 | 6.40 | 5.98 | 6.40 | 6.10 | 5.88 | 5.66 | 5.65 | 5.67 | 5.71 | 5.72 | 5.97 | 6.00 |
| Motor Gasoline 7/ | 11.65 | 10.73 | 10.47 | 11.10 | 10.78 | 10.71 | 10.85 | 10.82 | 10.80 | 10.90 | 10.91 | 10.82 | 10.78 |
| Residual Fuel | 3.88 | 3.20 | 3.50 | 3.78 | 3.42 | 3.30 | 3.32 | 3.34 | 3.37 | 3.39 | 3.41 | 3.43 | 3.46 |
| Liquefied Petroleum Gas 8/ | 17.01 | 17.24 | 14.95 | 15.37 | 16.50 | 16.37 | 15.97 | 16.20 | 16.22 | 16.23 | 16.45 | 16.47 | 16.48 |
| Natural Gas 9/ | 6.51 | 7.45 | 5.84 | 6.29 | 6.00 | 5.89 | 5.95 | 6.16 | 6.37 | 6.58 | 6.83 | 6.99 | 7.15 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.62 | 18.09 | 17.94 | 18.72 | 18.73 | 18.75 | 18.92 | 18.94 | 18.81 | 22.95 |
| Electricity | 20.35 | 20.69 | 19.60 | 19.30 | 19.42 | 19.25 | 18.79 | 18.41 | 18.26 | 18.16 | 18.27 | 18.23 | 18.15 |
| Average End-Use Energy | 11.58 | 11.48 | 10.86 | 11.13 | 10.98 | 10.91 | 10.86 | 10.86 | 10.86 | 10.94 | 11.05 | 11.10 | 11.12 |
| Primary Energy | 9.10 | 8.75 | 8.09 | 8.60 | 8.34 | 8.24 | 8.30 | 8.39 | 8.41 | 8.52 | 8.60 | 8.63 | 8.63 |
| Electricity | 19.74 | 20.38 | 19.92 | 19.28 | 19.41 | 19.42 | 19.04 | 18.72 | 18.65 | 18.65 | 18.87 | 18.97 | 19.03 |
| Electric Generators 11/ | | | | | | | | | | | | | |
| Fossil Fuel Average | 2.02 | 2.18 | 1.74 | 1.78 | 1.76 | 1.73 | 1.72 | 1.71 | 1.73 | 1.73 | 1.73 | 1.72 | 1.74 |
| Petroleum Products | 4.58 | 5.41 | 4.06 | 4.50 | 4.24 | 4.15 | 4.15 | 4.16 | 4.17 | 4.20 | 4.20 | 4.29 | 4.26 |
| Distillate Fuel | 6.70 | 6.07 | 5.37 | 5.80 | 4.98 | 4.80 | 4.72 | 4.72 | 4.77 | 4.82 | 4.88 | 5.06 | 5.10 |
| Residual Fuel | 4.43 | 5.33 | 3.85 | 4.13 | 3.89 | 3.77 | 3.79 | 3.81 | 3.83 | 3.85 | 3.87 | 3.89 | 3.91 |
| Natural Gas | 4.54 | 4.64 | 3.40 | 3.85 | 3.63 | 3.54 | 3.48 | 3.56 | 3.69 | 3.82 | 4.01 | 4.10 | 4.25 |
| Steam Coal | 1.45 | 1.47 | 1.47 | 1.47 | 1.46 | 1.45 | 1.44 | 1.43 | 1.42 | 1.40 | 1.40 | 1.39 | 1.38 |
| Average Price to All Users 12/ | | | | | | | | | | | | | |
| Petroleum Products 2/ | 9.84 | 9.11 | 9.02 | 9.62 | 9.36 | 9.24 | 9.33 | 9.42 | 9.40 | 9.50 | 9.55 | 9.56 | 9.52 |

**Table 15. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**South Atlantic**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 9.80 | 8.87 | 8.27 | 8.90 | 8.54 | 8.28 | 8.40 | 8.81 | 8.76 | 8.90 | 9.00 | 9.15 | 9.05 |
| Jet Fuel | 7.32 | 6.40 | 5.98 | 6.40 | 6.10 | 5.88 | 5.66 | 5.65 | 5.67 | 5.71 | 5.72 | 5.97 | 6.00 |
| Liquefied Petroleum Gas | 14.85 | 15.71 | 13.53 | 13.91 | 15.24 | 15.13 | 14.76 | 15.01 | 15.03 | 15.05 | 15.28 | 15.30 | 15.33 |
| Motor Gasoline 7/ | 11.65 | 10.73 | 10.47 | 11.10 | 10.77 | 10.71 | 10.85 | 10.82 | 10.80 | 10.90 | 10.91 | 10.82 | 10.78 |
| Residual Fuel | 4.19 | 4.71 | 3.71 | 3.99 | 3.65 | 3.53 | 3.56 | 3.58 | 3.62 | 3.64 | 3.67 | 3.68 | 3.72 |
| Natural Gas | 6.18 | 7.04 | 5.17 | 5.62 | 5.33 | 5.23 | 5.14 | 5.23 | 5.31 | 5.44 | 5.62 | 5.73 | 5.82 |
| Coal | 1.46 | 1.48 | 1.48 | 1.48 | 1.47 | 1.46 | 1.45 | 1.45 | 1.43 | 1.42 | 1.41 | 1.41 | 1.39 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.62 | 18.09 | 17.94 | 18.72 | 18.73 | 18.75 | 18.92 | 18.94 | 18.81 | 22.95 |
| Electricity | 19.74 | 20.38 | 19.92 | 19.28 | 19.41 | 19.42 | 19.04 | 18.72 | 18.65 | 18.65 | 18.87 | 18.97 | 19.03 |
| | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | |
| Residential | 30.33 | 31.58 | 30.16 | 30.89 | 31.69 | 32.10 | 32.13 | 32.40 | 33.03 | 33.59 | 34.59 | 35.32 | 36.05 |
| Commercial | 19.48 | 21.12 | 20.30 | 20.32 | 20.85 | 21.35 | 21.51 | 21.85 | 22.48 | 23.25 | 24.27 | 25.20 | 26.10 |
| Industrial | 15.83 | 14.73 | 13.12 | 14.00 | 13.90 | 13.75 | 13.74 | 13.99 | 14.36 | 14.74 | 15.39 | 15.92 | 16.40 |
| Transportation | 50.63 | 47.00 | 45.97 | 49.94 | 49.57 | 50.23 | 52.30 | 54.40 | 55.91 | 58.26 | 60.29 | 61.90 | 63.25 |
| Total Non-Renewable Expenditures | 116.27 | 114.43 | 109.56 | 115.15 | 116.01 | 117.42 | 119.68 | 122.63 | 125.78 | 129.83 | 134.54 | 138.34 | 141.80 |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total Expenditures | 116.27 | 114.43 | 109.56 | 115.16 | 116.01 | 117.43 | 119.69 | 122.63 | 125.79 | 129.84 | 134.55 | 138.35 | 141.81 |

**Table 15. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**South Atlantic**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 17.19 | 17.24 | 17.25 | 17.27 | 17.28 | 17.30 | 17.33 | 17.40 | 17.45 | 17.50 | 17.56 | 17.54 | 17.51 | -0.3% |
| Primary Energy 1/ | 9.36 | 9.36 | 9.34 | 9.36 | 9.38 | 9.33 | 9.35 | 9.45 | 9.49 | 9.51 | 9.55 | 9.52 | 9.48 | -0.8% |
| Petroleum Products 2/ | 12.14 | 12.30 | 12.36 | 12.45 | 12.58 | 12.73 | 12.90 | 13.02 | 13.14 | 13.26 | 13.37 | 13.48 | 13.60 | 0.4% |
| Distillate Fuel | 8.32 | 8.48 | 8.46 | 8.50 | 8.61 | 8.75 | 8.92 | 8.98 | 9.03 | 9.06 | 9.10 | 9.13 | 9.16 | 0.1% |
| Liquefied Petroleum Gas | 16.80 | 16.85 | 16.89 | 16.93 | 16.98 | 17.02 | 17.07 | 17.11 | 17.17 | 17.24 | 17.30 | 17.36 | 17.42 | 0.0% |
| Natural Gas | 8.55 | 8.53 | 8.51 | 8.53 | 8.54 | 8.47 | 8.48 | 8.60 | 8.63 | 8.66 | 8.70 | 8.67 | 8.62 | -1.0% |
| Electricity | 22.13 | 22.20 | 22.19 | 22.20 | 22.18 | 22.22 | 22.23 | 22.27 | 22.31 | 22.35 | 22.41 | 22.37 | 22.33 | -0.3% |
| Commercial | 14.97 | 15.08 | 15.19 | 15.26 | 15.34 | 15.37 | 15.48 | 15.59 | 15.74 | 15.80 | 15.95 | 15.91 | 15.97 | 0.0% |
| Primary Energy 1/ | 7.16 | 7.18 | 7.18 | 7.20 | 7.23 | 7.20 | 7.24 | 7.36 | 7.40 | 7.44 | 7.49 | 7.47 | 7.45 | -0.7% |
| Petroleum Products 2/ | 7.23 | 7.36 | 7.34 | 7.37 | 7.47 | 7.58 | 7.72 | 7.78 | 7.82 | 7.85 | 7.89 | 7.92 | 7.96 | 0.2% |
| Distillate Fuel | 5.65 | 5.81 | 5.80 | 5.84 | 5.94 | 6.08 | 6.25 | 6.32 | 6.36 | 6.40 | 6.43 | 6.46 | 6.50 | 0.2% |
| Residual Fuel | 3.82 | 3.84 | 3.86 | 3.88 | 3.91 | 3.93 | 3.95 | 3.97 | 4.01 | 4.04 | 4.07 | 4.10 | 4.14 | 1.0% |
| Natural Gas | 7.32 | 7.32 | 7.31 | 7.34 | 7.35 | 7.30 | 7.32 | 7.45 | 7.50 | 7.54 | 7.59 | 7.56 | 7.53 | -0.9% |
| Electricity | 19.54 | 19.67 | 19.81 | 19.87 | 19.95 | 19.98 | 20.09 | 20.16 | 20.32 | 20.36 | 20.54 | 20.45 | 20.52 | 0.0% |
| Industrial 3/ | 6.44 | 6.52 | 6.56 | 6.61 | 6.66 | 6.71 | 6.76 | 6.80 | 6.85 | 6.93 | 6.97 | 7.01 | 7.02 | 0.3% |
| Primary Energy | 4.49 | 4.57 | 4.59 | 4.63 | 4.68 | 4.71 | 4.77 | 4.79 | 4.85 | 4.90 | 4.95 | 4.97 | 4.99 | 0.4% |
| Petroleum Products 2/ | 6.05 | 6.18 | 6.23 | 6.27 | 6.37 | 6.45 | 6.57 | 6.46 | 6.53 | 6.59 | 6.65 | 6.69 | 6.76 | 0.7% |
| Distillate Fuel | 5.92 | 6.08 | 6.07 | 6.10 | 6.21 | 6.35 | 6.52 | 6.59 | 6.63 | 6.67 | 6.70 | 6.73 | 6.76 | 0.2% |
| Liquefied Petroleum Gas | 12.97 | 13.01 | 13.05 | 13.10 | 13.14 | 13.19 | 13.23 | 13.27 | 13.34 | 13.40 | 13.46 | 13.52 | 13.59 | 0.4% |
| Residual Fuel | 3.90 | 3.92 | 3.95 | 3.97 | 3.99 | 4.01 | 4.03 | 4.06 | 4.09 | 4.12 | 4.16 | 4.19 | 4.22 | 0.8% |
| Natural Gas 4/ | 4.01 | 4.02 | 4.03 | 4.06 | 4.08 | 4.04 | 4.07 | 4.21 | 4.27 | 4.32 | 4.38 | 4.36 | 4.34 | -0.3% |
| Metallurgical Coal | 1.40 | 1.40 | 1.39 | 1.37 | 1.36 | 1.36 | 1.34 | 1.34 | 1.31 | 1.31 | 1.30 | 1.29 | 1.29 | -1.0% |
| Steam Coal | 1.62 | 1.62 | 1.61 | 1.60 | 1.59 | 1.59 | 1.58 | 1.56 | 1.55 | 1.55 | 1.54 | 1.54 | 1.54 | -0.5% |
| Electricity | 12.50 | 12.60 | 12.63 | 12.71 | 12.70 | 12.78 | 12.78 | 12.89 | 12.88 | 12.99 | 12.99 | 13.07 | 13.01 | -0.1% |
| Transportation | 10.02 | 10.02 | 10.01 | 10.05 | 10.23 | 10.26 | 10.27 | 10.26 | 10.32 | 10.40 | 10.50 | 10.54 | 10.76 | 0.3% |
| Primary Energy | 10.00 | 10.00 | 9.98 | 10.02 | 10.21 | 10.24 | 10.25 | 10.24 | 10.29 | 10.37 | 10.48 | 10.52 | 10.74 | 0.3% |
| Petroleum Products 2/ | 10.00 | 10.00 | 9.99 | 10.03 | 10.21 | 10.25 | 10.26 | 10.24 | 10.30 | 10.38 | 10.48 | 10.53 | 10.74 | 0.3% |
| Distillate Fuel 5/ | 9.72 | 9.67 | 9.67 | 9.68 | 9.81 | 9.88 | 9.87 | 9.81 | 9.95 | 10.07 | 10.14 | 10.18 | 10.24 | 0.2% |
| Jet Fuel 6/ | 6.13 | 6.26 | 6.27 | 6.30 | 6.46 | 6.59 | 6.71 | 6.73 | 6.89 | 7.04 | 7.13 | 7.16 | 7.18 | 0.5% |
| Motor Gasoline 7/ | 10.71 | 10.71 | 10.69 | 10.74 | 10.95 | 10.97 | 10.97 | 10.98 | 11.00 | 11.06 | 11.18 | 11.23 | 11.53 | 0.3% |
| Residual Fuel | 3.48 | 3.50 | 3.52 | 3.54 | 3.56 | 3.58 | 3.60 | 3.63 | 3.66 | 3.70 | 3.73 | 3.76 | 3.79 | 0.7% |
| Liquefied Petroleum Gas 8/ | 16.48 | 16.50 | 16.51 | 16.52 | 16.54 | 16.55 | 16.56 | 16.58 | 16.61 | 16.65 | 16.68 | 16.72 | 16.75 | -0.1% |
| Natural Gas 9/ | 7.28 | 7.32 | 7.35 | 7.40 | 7.43 | 7.40 | 7.44 | 7.60 | 7.68 | 7.74 | 7.81 | 7.80 | 7.78 | 0.2% |
| Ethanol (E85) 10/ | 23.02 | 23.12 | 23.19 | 23.29 | 23.40 | 23.46 | 23.52 | 23.64 | 23.69 | 23.80 | 23.91 | 24.24 | 24.17 | 1.3% |
| Electricity | 18.14 | 18.07 | 17.98 | 17.89 | 17.72 | 17.60 | 17.48 | 17.34 | 17.19 | 17.07 | 16.97 | 16.81 | 16.67 | -0.9% |
| Average End-Use Energy | 11.15 | 11.19 | 11.22 | 11.27 | 11.39 | 11.43 | 11.46 | 11.50 | 11.57 | 11.64 | 11.74 | 11.76 | 11.88 | 0.1% |
| Primary Energy | 8.63 | 8.66 | 8.66 | 8.71 | 8.85 | 8.88 | 8.91 | 8.93 | 8.98 | 9.06 | 9.15 | 9.19 | 9.34 | 0.3% |
| Electricity | 19.16 | 19.25 | 19.31 | 19.36 | 19.38 | 19.43 | 19.48 | 19.55 | 19.62 | 19.67 | 19.77 | 19.73 | 19.74 | -0.1% |
| Electric Generators 11/ | | | | | | | | | | | | | | |
| Fossil Fuel Average | 1.77 | 1.78 | 1.78 | 1.78 | 1.77 | 1.77 | 1.76 | 1.78 | 1.79 | 1.79 | 1.78 | 1.79 | 1.78 | -0.8% |
| Petroleum Products | 4.30 | 4.38 | 4.39 | 4.42 | 4.43 | 4.50 | 4.56 | 4.54 | 4.60 | 4.67 | 4.72 | 4.78 | 4.83 | -0.5% |
| Distillate Fuel | 5.26 | 5.42 | 5.40 | 5.44 | 5.55 | 5.69 | 5.86 | 5.92 | 5.97 | 6.00 | 6.04 | 6.07 | 6.10 | 0.0% |
| Residual Fuel | 3.93 | 3.95 | 3.97 | 3.99 | 4.01 | 4.04 | 4.06 | 4.08 | 4.11 | 4.14 | 4.18 | 4.21 | 4.24 | -0.9% |
| Natural Gas | 4.36 | 4.40 | 4.40 | 4.43 | 4.45 | 4.41 | 4.45 | 4.61 | 4.69 | 4.75 | 4.81 | 4.77 | 4.74 | 0.1% |
| Steam Coal | 1.39 | 1.38 | 1.38 | 1.37 | 1.37 | 1.36 | 1.36 | 1.34 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | -0.4% |
| Average Price to All Users 12/ | | | | | | | | | | | | | | |
| Petroleum Products 2/ | 9.49 | 9.52 | 9.52 | 9.57 | 9.74 | 9.80 | 9.83 | 9.81 | 9.87 | 9.95 | 10.05 | 10.10 | 10.30 | 0.5% |

**Table 15. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**South Atlantic**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 8.99 | 9.00 | 9.00 | 9.02 | 9.16 | 9.26 | 9.29 | 9.26 | 9.38 | 9.50 | 9.57 | 9.61 | 9.68 | 0.4% |
| Jet Fuel | 6.13 | 6.26 | 6.27 | 6.30 | 6.46 | 6.59 | 6.71 | 6.73 | 6.89 | 7.04 | 7.13 | 7.16 | 7.18 | 0.5% |
| Liquefied Petroleum Gas | 15.36 | 15.39 | 15.43 | 15.47 | 15.50 | 15.54 | 15.57 | 15.61 | 15.66 | 15.71 | 15.77 | 15.82 | 15.88 | 0.0% |
| Motor Gasoline 7/ | 10.71 | 10.71 | 10.69 | 10.74 | 10.95 | 10.97 | 10.97 | 10.98 | 11.00 | 11.06 | 11.18 | 11.23 | 11.53 | 0.3% |
| Residual Fuel | 3.74 | 3.76 | 3.78 | 3.80 | 3.82 | 3.83 | 3.85 | 3.88 | 3.91 | 3.94 | 3.97 | 4.00 | 4.03 | -0.6% |
| Natural Gas | 5.89 | 5.88 | 5.88 | 5.90 | 5.91 | 5.85 | 5.88 | 6.01 | 6.06 | 6.10 | 6.16 | 6.11 | 6.08 | -0.6% |
| Coal | 1.40 | 1.39 | 1.39 | 1.39 | 1.38 | 1.37 | 1.37 | 1.35 | 1.34 | 1.34 | 1.33 | 1.34 | 1.33 | -0.4% |
| Ethanol (E85) 10/ | 23.02 | 23.12 | 23.19 | 23.29 | 23.40 | 23.46 | 23.52 | 23.64 | 23.69 | 23.80 | 23.91 | 24.24 | 24.17 | 1.3% |
| Electricity | 19.16 | 19.25 | 19.31 | 19.36 | 19.38 | 19.43 | 19.48 | 19.55 | 19.62 | 19.67 | 19.77 | 19.73 | 19.74 | -0.1% |
| | | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | | |
| Residential | 36.65 | 37.28 | 37.84 | 38.50 | 38.92 | 39.47 | 40.07 | 40.88 | 41.39 | 42.06 | 42.78 | 43.47 | 43.94 | 1.4% |
| Commercial | 27.13 | 28.07 | 29.00 | 29.89 | 30.84 | 31.73 | 32.79 | 33.87 | 35.04 | 36.03 | 37.25 | 38.06 | 39.15 | 2.6% |
| Industrial | 16.88 | 17.32 | 17.59 | 17.88 | 18.19 | 18.55 | 18.98 | 19.33 | 19.71 | 20.20 | 20.60 | 21.01 | 21.29 | 1.5% |
| Transportation | 64.43 | 65.96 | 67.29 | 68.93 | 71.60 | 73.31 | 74.95 | 76.23 | 78.02 | 80.14 | 82.57 | 84.67 | 88.10 | 2.7% |
| Total Non-Renewable Expenditures | 145.08 | 148.64 | 151.71 | 155.20 | 159.55 | 163.06 | 166.79 | 170.30 | 174.15 | 178.44 | 183.20 | 187.21 | 192.49 | 2.2% |
| Transportation Renewable Expenditures | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 10.7% |
| Total Expenditures | 145.10 | 148.65 | 151.73 | 155.22 | 159.57 | 163.07 | 166.81 | 170.32 | 174.17 | 178.46 | 183.23 | 187.23 | 192.52 | 2.2% |

**Table 15. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**South Atlantic**

1/ Weighted average price includes fuels below as well as coal.
2/ This quantity is the weighted average for all petroleum products, not just those listed below.
3/ Includes combined heat and power.
4/ Excludes uses for lease and plant fuel.
5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
8/ Includes Federal and State taxes while excluding county and local taxes.
9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
11/ Includes combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
Note: Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports.
Sources: 2000 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2000, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2001). 2001 prices for motor gasoline, distillate, and jet fuel are based on the Petroleum Marketing Annual 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (Setember 2002). 2000 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002). 2000 and 2001 electric power prices: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2000 and 2001 industrial gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2000 and 2001 coal prices based on EIA, Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. 2000 and 2001 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 16. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**East South Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 16.80 | 17.76 | 16.34 | 16.12 | 16.16 | 16.12 | 15.86 | 15.65 | 15.60 | 15.58 | 15.81 | 15.93 | 16.02 |
| Primary Energy 1/ | 8.99 | 10.89 | 8.32 | 8.65 | 8.47 | 8.36 | 8.21 | 8.28 | 8.32 | 8.39 | 8.54 | 8.61 | 8.68 |
| Petroleum Products 2/ | 13.65 | 13.68 | 12.29 | 12.64 | 13.14 | 12.98 | 12.66 | 12.85 | 12.88 | 12.92 | 13.12 | 13.20 | 13.25 |
| Distillate Fuel | 8.05 | 7.01 | 7.14 | 8.08 | 7.39 | 6.84 | 6.76 | 6.76 | 6.81 | 6.86 | 6.92 | 7.10 | 7.14 |
| Liquefied Petroleum Gas | 14.78 | 15.29 | 13.24 | 13.67 | 14.41 | 14.32 | 13.95 | 14.21 | 14.24 | 14.28 | 14.52 | 14.56 | 14.60 |
| Natural Gas | 7.81 | 10.23 | 7.35 | 7.78 | 7.48 | 7.41 | 7.31 | 7.37 | 7.43 | 7.52 | 7.67 | 7.75 | 7.83 |
| Electricity | 22.68 | 22.66 | 22.02 | 21.39 | 21.57 | 21.50 | 21.11 | 20.63 | 20.44 | 20.28 | 20.50 | 20.58 | 20.63 |
| Commercial | 13.73 | 14.74 | 13.62 | 13.33 | 13.33 | 13.32 | 13.10 | 12.95 | 12.96 | 13.00 | 13.25 | 13.38 | 13.50 |
| Primary Energy 1/ | 6.91 | 8.80 | 6.32 | 6.58 | 6.34 | 6.28 | 6.22 | 6.31 | 6.39 | 6.50 | 6.68 | 6.76 | 6.84 |
| Petroleum Products 2/ | 9.68 | 8.98 | 8.06 | 8.35 | 8.15 | 8.02 | 7.79 | 7.84 | 7.86 | 7.86 | 7.94 | 8.04 | 8.04 |
| Distillate Fuel | 6.63 | 5.78 | 5.49 | 5.91 | 5.14 | 4.97 | 4.88 | 4.88 | 4.94 | 4.98 | 5.05 | 5.22 | 5.27 |
| Residual Fuel | 4.06 | 3.98 | 4.02 | 4.30 | 3.55 | 3.42 | 3.45 | 3.47 | 3.49 | 3.51 | 3.53 | 3.56 | 3.58 |
| Natural Gas | 6.86 | 8.98 | 6.32 | 6.60 | 6.34 | 6.29 | 6.23 | 6.32 | 6.41 | 6.54 | 6.73 | 6.80 | 6.89 |
| Electricity | 19.41 | 19.64 | 19.42 | 18.85 | 19.07 | 19.08 | 18.67 | 18.27 | 18.15 | 18.05 | 18.28 | 18.39 | 18.47 |
| Industrial 3/ | 6.45 | 6.35 | 5.59 | 5.93 | 5.88 | 5.82 | 5.75 | 5.76 | 5.83 | 5.88 | 6.03 | 6.11 | 6.19 |
| Primary Energy | 4.60 | 4.50 | 3.83 | 4.16 | 4.03 | 3.93 | 3.88 | 3.93 | 3.99 | 4.07 | 4.19 | 4.28 | 4.35 |
| Petroleum Products 2/ | 6.50 | 5.89 | 5.56 | 6.05 | 5.99 | 5.82 | 5.80 | 5.82 | 5.89 | 5.92 | 6.03 | 6.15 | 6.21 |
| Distillate Fuel | 6.98 | 6.16 | 5.84 | 6.26 | 5.50 | 5.32 | 5.23 | 5.24 | 5.29 | 5.33 | 5.40 | 5.58 | 5.62 |
| Liquefied Petroleum Gas | 11.86 | 12.62 | 9.80 | 10.23 | 10.97 | 10.88 | 10.51 | 10.76 | 10.80 | 10.83 | 11.08 | 11.12 | 11.16 |
| Residual Fuel | 3.81 | 3.72 | 3.84 | 4.12 | 3.28 | 3.16 | 3.18 | 3.20 | 3.22 | 3.24 | 3.27 | 3.29 | 3.31 |
| Natural Gas 4/ | 4.35 | 4.64 | 3.12 | 3.53 | 3.26 | 3.19 | 3.11 | 3.21 | 3.30 | 3.42 | 3.60 | 3.69 | 3.80 |
| Metallurgical Coal | 1.72 | 1.68 | 1.63 | 1.62 | 1.60 | 1.59 | 1.58 | 1.56 | 1.55 | 1.54 | 1.52 | 1.50 | 1.49 |
| Steam Coal | 1.43 | 1.45 | 1.50 | 1.48 | 1.46 | 1.44 | 1.44 | 1.43 | 1.42 | 1.41 | 1.39 | 1.38 | 1.37 |
| Electricity | 12.40 | 12.46 | 11.98 | 12.06 | 12.20 | 12.21 | 12.00 | 11.80 | 11.80 | 11.74 | 11.88 | 11.86 | 11.93 |
| Transportation | 11.00 | 10.07 | 9.71 | 10.32 | 9.95 | 9.83 | 9.96 | 10.08 | 10.05 | 10.16 | 10.20 | 10.19 | 10.13 |
| Primary Energy | 10.98 | 10.05 | 9.69 | 10.30 | 9.92 | 9.81 | 9.94 | 10.06 | 10.03 | 10.14 | 10.18 | 10.17 | 10.11 |
| Petroleum Products 2/ | 10.98 | 10.05 | 9.69 | 10.30 | 9.93 | 9.81 | 9.95 | 10.07 | 10.03 | 10.15 | 10.18 | 10.17 | 10.11 |
| Distillate Fuel 5/ | 10.65 | 9.51 | 8.89 | 9.54 | 9.22 | 8.96 | 9.14 | 9.66 | 9.57 | 9.73 | 9.81 | 9.92 | 9.77 |
| Jet Fuel 6/ | 7.11 | 6.07 | 5.83 | 6.26 | 5.86 | 5.63 | 5.42 | 5.41 | 5.43 | 5.47 | 5.50 | 5.75 | 5.80 |
| Motor Gasoline 7/ | 11.92 | 11.03 | 10.72 | 11.34 | 10.93 | 10.89 | 11.05 | 11.03 | 11.00 | 11.11 | 11.12 | 11.03 | 10.99 |
| Residual Fuel | 3.03 | 3.36 | 3.16 | 3.44 | 2.58 | 2.45 | 2.47 | 2.50 | 2.52 | 2.54 | 2.56 | 2.58 | 2.61 |
| Liquefied Petroleum Gas 8/ | 15.45 | 15.85 | 14.23 | 14.66 | 14.33 | 14.21 | 13.81 | 14.04 | 14.05 | 14.06 | 14.28 | 14.29 | 14.30 |
| Natural Gas 9/ | 8.18 | 9.01 | 7.36 | 7.77 | 7.47 | 7.39 | 7.39 | 7.55 | 7.70 | 7.87 | 8.08 | 8.20 | 8.32 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 19.45 | 18.43 | 18.30 | 19.09 | 19.10 | 19.11 | 19.28 | 19.30 | 19.17 | 19.13 |
| Electricity | 19.48 | 19.31 | 18.38 | 18.29 | 18.42 | 18.35 | 17.88 | 17.45 | 17.24 | 17.04 | 17.12 | 17.07 | 17.00 |
| Average End-Use Energy | 10.43 | 10.35 | 9.64 | 9.94 | 9.79 | 9.73 | 9.69 | 9.70 | 9.70 | 9.76 | 9.88 | 9.93 | 9.95 |
| Primary Energy | 8.20 | 8.05 | 7.25 | 7.74 | 7.48 | 7.40 | 7.46 | 7.56 | 7.59 | 7.71 | 7.80 | 7.84 | 7.85 |
| Electricity | 17.81 | 18.02 | 17.77 | 17.35 | 17.52 | 17.51 | 17.16 | 16.80 | 16.68 | 16.56 | 16.73 | 16.77 | 16.83 |
| Electric Generators 11/ | | | | | | | | | | | | | |
| Fossil Fuel Average | 1.45 | 1.50 | 1.40 | 1.51 | 1.48 | 1.42 | 1.40 | 1.41 | 1.48 | 1.55 | 1.67 | 1.78 | 1.85 |
| Petroleum Products | 4.18 | 4.07 | 4.01 | 5.00 | 3.58 | 3.59 | 4.17 | 4.18 | 3.92 | 4.18 | 4.11 | 4.32 | 4.25 |
| Distillate Fuel | 6.62 | 5.61 | 5.66 | 6.09 | 5.30 | 5.12 | 5.04 | 5.04 | 5.09 | 5.14 | 5.20 | 5.38 | 5.42 |
| Residual Fuel | 3.75 | 3.88 | 3.71 | 4.02 | 2.91 | 2.79 | 2.81 | 2.83 | 2.86 | 2.88 | 2.90 | 2.92 | 2.94 |
| Natural Gas | 4.20 | 3.91 | 3.13 | 3.58 | 3.35 | 3.22 | 3.17 | 3.29 | 3.47 | 3.67 | 3.93 | 4.08 | 4.20 |
| Steam Coal | 1.23 | 1.21 | 1.17 | 1.18 | 1.17 | 1.18 | 1.16 | 1.14 | 1.13 | 1.11 | 1.11 | 1.10 | 1.11 |
| Average Price to All Users 12/ | | | | | | | | | | | | | |
| Petroleum Products 2/ | 10.00 | 9.13 | 8.85 | 9.46 | 9.17 | 9.06 | 9.17 | 9.27 | 9.27 | 9.36 | 9.42 | 9.44 | 9.40 |

**Table 16. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**East South Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 9.99 | 8.89 | 8.37 | 8.99 | 8.60 | 8.37 | 8.51 | 8.94 | 8.88 | 9.03 | 9.12 | 9.25 | 9.13 |
| Jet Fuel | 7.11 | 6.07 | 5.83 | 6.26 | 5.86 | 5.63 | 5.42 | 5.41 | 5.43 | 5.47 | 5.50 | 5.75 | 5.80 |
| Liquefied Petroleum Gas | 13.30 | 13.89 | 11.54 | 11.90 | 12.62 | 12.52 | 12.13 | 12.36 | 12.37 | 12.38 | 12.59 | 12.61 | 12.62 |
| Motor Gasoline 7/ | 11.92 | 11.03 | 10.72 | 11.34 | 10.93 | 10.88 | 11.05 | 11.03 | 11.00 | 11.11 | 11.12 | 11.03 | 10.99 |
| Residual Fuel | 3.56 | 3.77 | 3.45 | 3.68 | 2.77 | 2.63 | 2.63 | 2.65 | 2.69 | 2.70 | 2.73 | 2.75 | 2.78 |
| Natural Gas | 5.53 | 6.41 | 4.44 | 4.80 | 4.53 | 4.51 | 4.43 | 4.50 | 4.54 | 4.63 | 4.77 | 4.82 | 4.91 |
| Coal | 1.24 | 1.23 | 1.20 | 1.20 | 1.19 | 1.19 | 1.18 | 1.16 | 1.15 | 1.13 | 1.12 | 1.12 | 1.13 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 19.45 | 18.43 | 18.30 | 19.09 | 19.10 | 19.11 | 19.28 | 19.30 | 19.17 | 19.13 |
| Electricity | 17.81 | 18.02 | 17.77 | 17.35 | 17.52 | 17.51 | 17.16 | 16.80 | 16.68 | 16.56 | 16.73 | 16.77 | 16.83 |
| | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | |
| Residential | 10.22 | 10.42 | 9.78 | 9.89 | 10.03 | 10.05 | 9.97 | 9.92 | 9.99 | 10.03 | 10.24 | 10.35 | 10.49 |
| Commercial | 8.83 | 9.53 | 9.02 | 9.01 | 9.24 | 9.43 | 9.47 | 9.58 | 9.79 | 10.02 | 10.39 | 10.70 | 11.00 |
| Industrial | 10.44 | 9.75 | 8.61 | 9.23 | 9.25 | 9.17 | 9.16 | 9.32 | 9.57 | 9.82 | 10.28 | 10.62 | 10.95 |
| Transportation | 19.96 | 18.45 | 18.00 | 19.55 | 19.21 | 19.40 | 20.15 | 20.92 | 21.39 | 22.19 | 22.84 | 23.35 | 23.70 |
| Total Non-Renewable Expenditures | 49.44 | 48.15 | 45.41 | 47.67 | 47.73 | 48.06 | 48.75 | 49.75 | 50.74 | 52.05 | 53.75 | 55.02 | 56.14 |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Expenditures | 49.44 | 48.15 | 45.41 | 47.67 | 47.73 | 48.06 | 48.76 | 49.75 | 50.74 | 52.05 | 53.75 | 55.02 | 56.14 |

**Table 16. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**East South Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 16.09 | 16.17 | 16.17 | 16.28 | 16.27 | 16.38 | 16.38 | 16.54 | 16.52 | 16.68 | 16.67 | 16.78 | 16.70 | -0.3% |
| Primary Energy 1/ | 8.75 | 8.74 | 8.74 | 8.78 | 8.81 | 8.77 | 8.79 | 8.91 | 8.97 | 9.03 | 9.10 | 9.07 | 9.06 | -0.8% |
| Petroleum Products 2/ | 13.32 | 13.41 | 13.48 | 13.54 | 13.63 | 13.71 | 13.81 | 13.88 | 13.99 | 14.10 | 14.21 | 14.29 | 14.39 | 0.2% |
| Distillate Fuel | 7.30 | 7.50 | 7.55 | 7.60 | 7.77 | 7.89 | 8.09 | 8.13 | 8.29 | 8.45 | 8.56 | 8.62 | 8.72 | 0.9% |
| Liquefied Petroleum Gas | 14.64 | 14.68 | 14.73 | 14.77 | 14.81 | 14.85 | 14.89 | 14.94 | 15.00 | 15.06 | 15.12 | 15.18 | 15.24 | 0.0% |
| Natural Gas | 7.91 | 7.90 | 7.89 | 7.94 | 7.96 | 7.90 | 7.91 | 8.06 | 8.11 | 8.16 | 8.22 | 8.18 | 8.15 | -0.9% |
| Electricity | 20.65 | 20.73 | 20.67 | 20.78 | 20.71 | 20.88 | 20.81 | 20.94 | 20.84 | 21.01 | 20.91 | 21.06 | 20.92 | -0.3% |
| Commercial | 13.61 | 13.72 | 13.76 | 13.90 | 13.92 | 14.05 | 14.06 | 14.26 | 14.27 | 14.45 | 14.46 | 14.59 | 14.52 | -0.1% |
| Primary Energy 1/ | 6.91 | 6.91 | 6.91 | 6.94 | 6.97 | 6.92 | 6.94 | 7.07 | 7.13 | 7.18 | 7.24 | 7.21 | 7.19 | -0.8% |
| Petroleum Products 2/ | 8.12 | 8.24 | 8.27 | 8.30 | 8.43 | 8.51 | 8.65 | 8.68 | 8.81 | 8.95 | 9.05 | 9.13 | 9.23 | 0.1% |
| Distillate Fuel | 5.42 | 5.62 | 5.67 | 5.72 | 5.90 | 6.02 | 6.21 | 6.25 | 6.42 | 6.58 | 6.68 | 6.75 | 6.84 | 0.7% |
| Residual Fuel | 3.60 | 3.62 | 3.65 | 3.67 | 3.69 | 3.72 | 3.74 | 3.76 | 3.80 | 3.83 | 3.87 | 3.90 | 3.93 | 0.0% |
| Natural Gas | 6.97 | 6.96 | 6.95 | 6.99 | 7.01 | 6.95 | 6.96 | 7.10 | 7.16 | 7.21 | 7.27 | 7.23 | 7.20 | -0.9% |
| Electricity | 18.54 | 18.68 | 18.70 | 18.88 | 18.85 | 19.06 | 19.03 | 19.22 | 19.14 | 19.36 | 19.27 | 19.47 | 19.33 | -0.1% |
| Industrial 3/ | 6.30 | 6.39 | 6.43 | 6.50 | 6.54 | 6.60 | 6.64 | 6.71 | 6.75 | 6.86 | 6.89 | 6.95 | 6.95 | 0.4% |
| Primary Energy | 4.47 | 4.54 | 4.57 | 4.61 | 4.67 | 4.69 | 4.75 | 4.78 | 4.85 | 4.92 | 4.98 | 4.99 | 5.02 | 0.5% |
| Petroleum Products 2/ | 6.39 | 6.53 | 6.60 | 6.64 | 6.75 | 6.84 | 6.95 | 6.86 | 6.95 | 7.05 | 7.12 | 7.17 | 7.25 | 0.9% |
| Distillate Fuel | 5.78 | 5.97 | 6.02 | 6.07 | 6.25 | 6.37 | 6.56 | 6.61 | 6.77 | 6.93 | 7.04 | 7.10 | 7.19 | 0.6% |
| Liquefied Petroleum Gas | 11.20 | 11.24 | 11.28 | 11.33 | 11.37 | 11.41 | 11.45 | 11.49 | 11.56 | 11.62 | 11.68 | 11.74 | 11.80 | -0.3% |
| Residual Fuel | 3.33 | 3.35 | 3.38 | 3.40 | 3.42 | 3.45 | 3.47 | 3.50 | 3.53 | 3.56 | 3.60 | 3.63 | 3.66 | -0.1% |
| Natural Gas 4/ | 3.89 | 3.90 | 3.89 | 3.93 | 3.96 | 3.91 | 3.93 | 4.08 | 4.15 | 4.20 | 4.26 | 4.23 | 4.21 | -0.4% |
| Metallurgical Coal | 1.49 | 1.48 | 1.47 | 1.45 | 1.44 | 1.44 | 1.42 | 1.42 | 1.39 | 1.38 | 1.37 | 1.37 | 1.36 | -0.9% |
| Steam Coal | 1.37 | 1.36 | 1.37 | 1.36 | 1.35 | 1.35 | 1.35 | 1.33 | 1.32 | 1.32 | 1.31 | 1.32 | 1.32 | -0.4% |
| Electricity | 11.97 | 12.08 | 12.08 | 12.21 | 12.16 | 12.31 | 12.26 | 12.42 | 12.35 | 12.51 | 12.44 | 12.62 | 12.49 | 0.0% |
| Transportation | 10.05 | 10.05 | 10.03 | 10.06 | 10.24 | 10.27 | 10.29 | 10.27 | 10.33 | 10.42 | 10.52 | 10.57 | 10.78 | 0.3% |
| Primary Energy | 10.03 | 10.03 | 10.01 | 10.04 | 10.22 | 10.26 | 10.28 | 10.26 | 10.32 | 10.40 | 10.51 | 10.56 | 10.77 | 0.3% |
| Petroleum Products 2/ | 10.03 | 10.03 | 10.02 | 10.04 | 10.23 | 10.26 | 10.28 | 10.26 | 10.32 | 10.41 | 10.51 | 10.56 | 10.78 | 0.3% |
| Distillate Fuel 5/ | 9.63 | 9.58 | 9.58 | 9.59 | 9.72 | 9.79 | 9.78 | 9.72 | 9.86 | 9.98 | 10.05 | 10.09 | 10.15 | 0.3% |
| Jet Fuel 6/ | 5.94 | 6.08 | 6.11 | 6.14 | 6.31 | 6.45 | 6.58 | 6.61 | 6.78 | 6.93 | 7.03 | 7.08 | 7.18 | 0.7% |
| Motor Gasoline 7/ | 10.91 | 10.91 | 10.88 | 10.92 | 11.14 | 11.15 | 11.17 | 11.17 | 11.20 | 11.26 | 11.38 | 11.45 | 11.75 | 0.3% |
| Residual Fuel | 2.63 | 2.65 | 2.68 | 2.70 | 2.72 | 2.75 | 2.77 | 2.80 | 2.83 | 2.87 | 2.90 | 2.93 | 2.97 | -0.5% |
| Liquefied Petroleum Gas 8/ | 14.31 | 14.32 | 14.33 | 14.34 | 14.35 | 14.36 | 14.38 | 14.39 | 14.42 | 14.46 | 14.49 | 14.52 | 14.55 | -0.4% |
| Natural Gas 9/ | 8.42 | 8.43 | 8.42 | 8.45 | 8.46 | 8.41 | 8.42 | 8.56 | 8.62 | 8.67 | 8.72 | 8.68 | 8.65 | -0.2% |
| Ethanol (E85) 10/ | 19.02 | 19.03 | 19.00 | 19.07 | 19.39 | 19.40 | 19.44 | 19.46 | 19.50 | 19.59 | 19.78 | 19.91 | 20.34 | 0.6% |
| Electricity | 16.93 | 16.89 | 16.75 | 16.75 | 16.55 | 16.54 | 16.37 | 16.31 | 16.07 | 16.05 | 15.85 | 15.85 | 15.62 | -0.9% |
| Average End-Use Energy | 9.98 | 10.04 | 10.05 | 10.12 | 10.22 | 10.28 | 10.30 | 10.36 | 10.40 | 10.51 | 10.56 | 10.63 | 10.70 | 0.1% |
| Primary Energy | 7.87 | 7.90 | 7.91 | 7.95 | 8.08 | 8.11 | 8.14 | 8.16 | 8.23 | 8.31 | 8.40 | 8.43 | 8.56 | 0.3% |
| Electricity | 16.86 | 16.97 | 16.96 | 17.11 | 17.05 | 17.23 | 17.17 | 17.34 | 17.25 | 17.43 | 17.34 | 17.51 | 17.36 | -0.2% |
| Electric Generators 11/ | | | | | | | | | | | | | | |
| Fossil Fuel Average | 1.90 | 1.95 | 1.93 | 1.95 | 1.94 | 1.96 | 1.97 | 2.03 | 2.07 | 2.08 | 2.09 | 2.13 | 2.11 | 1.4% |
| Petroleum Products | 4.34 | 4.46 | 4.60 | 4.68 | 4.76 | 4.84 | 4.95 | 4.83 | 5.09 | 5.01 | 5.27 | 5.13 | 5.19 | 1.0% |
| Distillate Fuel | 5.58 | 5.78 | 5.82 | 5.88 | 6.05 | 6.17 | 6.37 | 6.41 | 6.57 | 6.73 | 6.84 | 6.90 | 7.00 | 0.9% |
| Residual Fuel | 2.97 | 2.99 | 3.01 | 3.04 | 3.06 | 3.08 | 3.11 | 3.13 | 3.16 | 3.20 | 3.23 | 3.26 | 3.30 | -0.7% |
| Natural Gas | 4.31 | 4.33 | 4.32 | 4.36 | 4.37 | 4.34 | 4.36 | 4.51 | 4.60 | 4.66 | 4.71 | 4.68 | 4.66 | 0.7% |
| Steam Coal | 1.10 | 1.09 | 1.08 | 1.07 | 1.06 | 1.05 | 1.04 | 1.04 | 1.03 | 1.03 | 1.02 | 1.02 | 1.01 | -0.7% |
| Average Price to All Users 12/ | | | | | | | | | | | | | | |
| Petroleum Products 2/ | 9.38 | 9.41 | 9.42 | 9.45 | 9.62 | 9.66 | 9.71 | 9.67 | 9.74 | 9.83 | 9.93 | 9.98 | 10.16 | 0.4% |

**Table 16. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**East South Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 9.04 | 9.03 | 9.04 | 9.06 | 9.20 | 9.28 | 9.30 | 9.26 | 9.40 | 9.53 | 9.61 | 9.66 | 9.73 | 0.4% |
| Jet Fuel | 5.94 | 6.08 | 6.11 | 6.14 | 6.31 | 6.45 | 6.58 | 6.61 | 6.78 | 6.93 | 7.03 | 7.08 | 7.18 | 0.7% |
| Liquefied Petroleum Gas | 12.64 | 12.67 | 12.70 | 12.73 | 12.76 | 12.79 | 12.82 | 12.85 | 12.90 | 12.95 | 13.01 | 13.06 | 13.11 | -0.2% |
| Motor Gasoline 7/ | 10.91 | 10.91 | 10.88 | 10.92 | 11.14 | 11.15 | 11.17 | 11.18 | 11.20 | 11.26 | 11.38 | 11.45 | 11.75 | 0.3% |
| Residual Fuel | 2.80 | 2.83 | 2.85 | 2.87 | 2.90 | 2.92 | 2.94 | 2.97 | 3.01 | 3.05 | 3.08 | 3.11 | 3.15 | -0.8% |
| Natural Gas | 4.99 | 4.97 | 4.97 | 5.01 | 5.03 | 4.97 | 4.99 | 5.12 | 5.19 | 5.24 | 5.30 | 5.25 | 5.23 | -0.8% |
| Coal | 1.12 | 1.11 | 1.10 | 1.09 | 1.08 | 1.07 | 1.07 | 1.06 | 1.05 | 1.05 | 1.05 | 1.04 | 1.04 | -0.7% |
| Ethanol (E85) 10/ | 19.02 | 19.03 | 19.00 | 19.07 | 19.39 | 19.40 | 19.44 | 19.46 | 19.50 | 19.59 | 19.78 | 19.91 | 20.34 | 0.6% |
| Electricity | 16.86 | 16.97 | 16.96 | 17.11 | 17.05 | 17.23 | 17.17 | 17.34 | 17.25 | 17.43 | 17.34 | 17.51 | 17.36 | -0.2% |
| | | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | | |
| Residential | 10.55 | 10.66 | 10.72 | 10.87 | 10.90 | 11.03 | 11.09 | 11.29 | 11.31 | 11.48 | 11.55 | 11.75 | 11.76 | 0.5% |
| Commercial | 11.30 | 11.62 | 11.87 | 12.22 | 12.47 | 12.81 | 13.06 | 13.44 | 13.65 | 14.00 | 14.18 | 14.48 | 14.56 | 1.8% |
| Industrial | 11.27 | 11.57 | 11.73 | 11.96 | 12.16 | 12.42 | 12.68 | 12.97 | 13.20 | 13.58 | 13.82 | 14.15 | 14.31 | 1.6% |
| Transportation | 23.97 | 24.39 | 24.73 | 25.15 | 25.97 | 26.43 | 26.89 | 27.17 | 27.68 | 28.28 | 28.98 | 29.58 | 30.59 | 2.1% |
| Total Non-Renewable Expenditures | 57.09 | 58.23 | 59.05 | 60.20 | 61.50 | 62.69 | 63.72 | 64.87 | 65.83 | 67.35 | 68.53 | 69.96 | 71.22 | 1.6% |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 9.4% |
| Total Expenditures | 57.09 | 58.23 | 59.06 | 60.21 | 61.50 | 62.70 | 63.72 | 64.88 | 65.84 | 67.36 | 68.54 | 69.96 | 71.23 | 1.6% |

**Table 16. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**East South Central**

1/ Weighted average price includes fuels below as well as coal.
2/ This quantity is the weighted average for all petroleum products, not just those listed below.
3/ Includes combined heat and power.
4/ Excludes uses for lease and plant fuel.
5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
8/ Includes Federal and State taxes while excluding county and local taxes.
9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
11/ Includes combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
Note: Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports.
Sources: 2000 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2000, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2001). 2001 prices for motor gasoline, distillate, and jet fuel are based on the Petroleum Marketing Annual 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (Setember 2002). 2000 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002). 2000 and 2001 electric power prices: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2000 and 2001 industrial gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2000 and 2001 coal prices based on EIA, Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. 2000 and 2001 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 17. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**West South Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 16.78 | 17.58 | 15.90 | 15.96 | 15.80 | 15.71 | 15.57 | 16.28 | 15.85 | 16.77 | 15.61 | 16.12 | 15.78 |
| Primary Energy 1/ | 7.93 | 9.54 | 7.23 | 7.65 | 7.36 | 7.28 | 7.16 | 7.23 | 7.28 | 7.37 | 7.52 | 7.58 | 7.66 |
| Petroleum Products 2/ | 12.91 | 13.20 | 11.05 | 11.44 | 11.69 | 11.47 | 11.15 | 11.32 | 11.35 | 11.37 | 11.57 | 11.64 | 11.67 |
| Distillate Fuel | 8.52 | 7.11 | 6.35 | 7.29 | 6.64 | 6.08 | 6.00 | 6.00 | 6.05 | 6.10 | 6.17 | 6.34 | 6.39 |
| Liquefied Petroleum Gas | 14.03 | 15.02 | 12.30 | 12.72 | 13.26 | 13.18 | 12.81 | 13.06 | 13.09 | 13.13 | 13.38 | 13.42 | 13.46 |
| Natural Gas | 7.50 | 9.24 | 6.91 | 7.36 | 7.04 | 6.97 | 6.87 | 6.94 | 6.99 | 7.09 | 7.24 | 7.30 | 7.39 |
| Electricity | 23.34 | 23.46 | 22.24 | 21.89 | 21.75 | 21.54 | 21.30 | 22.35 | 21.48 | 22.85 | 20.71 | 21.42 | 20.71 |
| Commercial | 14.70 | 15.85 | 14.46 | 14.05 | 13.77 | 13.54 | 13.37 | 14.32 | 13.88 | 15.14 | 13.69 | 14.14 | 13.63 |
| Primary Energy 1/ | 6.10 | 7.89 | 5.44 | 5.71 | 5.45 | 5.41 | 5.33 | 5.43 | 5.53 | 5.66 | 5.84 | 5.92 | 6.02 |
| Petroleum Products 2/ | 9.55 | 9.11 | 7.58 | 7.85 | 7.80 | 7.71 | 7.46 | 7.55 | 7.62 | 7.63 | 7.74 | 7.85 | 7.86 |
| Distillate Fuel | 6.53 | 5.66 | 5.37 | 5.80 | 5.09 | 4.90 | 4.82 | 4.82 | 4.87 | 4.91 | 4.98 | 5.16 | 5.20 |
| Residual Fuel | 3.51 | 3.44 | 3.41 | 3.70 | 3.14 | 3.02 | 3.04 | 3.06 | 3.08 | 3.10 | 3.12 | 3.14 | 3.16 |
| Natural Gas | 5.93 | 7.85 | 5.32 | 5.61 | 5.34 | 5.30 | 5.23 | 5.34 | 5.43 | 5.57 | 5.76 | 5.84 | 5.94 |
| Electricity | 20.34 | 21.22 | 20.48 | 19.61 | 19.34 | 18.95 | 18.67 | 20.17 | 19.32 | 21.26 | 18.64 | 19.25 | 18.27 |
| Industrial 3/ | 7.90 | 7.93 | 5.71 | 6.13 | 6.27 | 6.18 | 6.02 | 6.22 | 6.27 | 6.43 | 6.48 | 6.59 | 6.62 |
| Primary Energy | 7.54 | 7.52 | 5.22 | 5.67 | 5.81 | 5.71 | 5.54 | 5.68 | 5.76 | 5.83 | 6.01 | 6.08 | 6.15 |
| Petroleum Products 2/ | 10.15 | 9.85 | 6.95 | 7.42 | 7.79 | 7.68 | 7.46 | 7.62 | 7.67 | 7.71 | 7.90 | 7.99 | 8.03 |
| Distillate Fuel | 6.91 | 6.23 | 5.80 | 6.22 | 5.51 | 5.32 | 5.24 | 5.24 | 5.29 | 5.34 | 5.40 | 5.58 | 5.62 |
| Liquefied Petroleum Gas | 12.16 | 12.37 | 7.74 | 8.17 | 9.02 | 8.93 | 8.56 | 8.81 | 8.85 | 8.88 | 9.13 | 9.17 | 9.21 |
| Residual Fuel | 2.71 | 2.65 | 3.44 | 3.72 | 3.28 | 3.16 | 3.18 | 3.20 | 3.22 | 3.24 | 3.26 | 3.28 | 3.30 |
| Natural Gas 4/ | 4.30 | 4.59 | 3.05 | 3.47 | 3.22 | 3.15 | 3.06 | 3.16 | 3.25 | 3.38 | 3.56 | 3.64 | 3.76 |
| Metallurgical Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Steam Coal | 1.24 | 1.26 | 1.28 | 1.26 | 1.26 | 1.25 | 1.24 | 1.23 | 1.21 | 1.21 | 1.18 | 1.16 | 1.16 |
| Electricity | 12.41 | 12.96 | 12.49 | 12.34 | 12.30 | 12.19 | 12.11 | 13.06 | 12.64 | 13.81 | 12.34 | 12.82 | 12.25 |
| Transportation | 9.77 | 9.03 | 8.64 | 9.22 | 8.94 | 8.80 | 8.86 | 8.98 | 8.96 | 9.06 | 9.11 | 9.14 | 9.10 |
| Primary Energy | 9.75 | 9.01 | 8.62 | 9.20 | 8.92 | 8.78 | 8.85 | 8.96 | 8.94 | 9.04 | 9.09 | 9.12 | 9.09 |
| Petroleum Products 2/ | 9.75 | 9.01 | 8.62 | 9.20 | 8.93 | 8.79 | 8.85 | 8.97 | 8.95 | 9.05 | 9.09 | 9.13 | 9.09 |
| Distillate Fuel 5/ | 10.42 | 9.59 | 8.90 | 9.54 | 9.25 | 8.98 | 9.16 | 9.68 | 9.60 | 9.76 | 9.83 | 9.94 | 9.79 |
| Jet Fuel 6/ | 6.74 | 5.81 | 5.47 | 5.90 | 5.65 | 5.41 | 5.19 | 5.18 | 5.20 | 5.24 | 5.27 | 5.52 | 5.56 |
| Motor Gasoline 7/ | 11.71 | 10.82 | 10.58 | 11.21 | 10.93 | 10.85 | 10.97 | 10.94 | 10.92 | 11.01 | 11.03 | 10.93 | 10.91 |
| Residual Fuel | 4.89 | 5.02 | 3.67 | 3.95 | 3.42 | 3.30 | 3.32 | 3.34 | 3.36 | 3.38 | 3.40 | 3.42 | 3.44 |
| Liquefied Petroleum Gas 8/ | 15.46 | 16.42 | 13.98 | 14.40 | 13.14 | 13.02 | 12.62 | 12.85 | 12.86 | 12.87 | 13.09 | 13.11 | 13.11 |
| Natural Gas 9/ | 3.57 | 4.66 | 3.06 | 3.58 | 3.28 | 3.24 | 3.46 | 3.83 | 4.16 | 4.50 | 4.83 | 5.06 | 5.29 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.22 | 19.98 | 20.22 | 20.43 | 21.97 | 22.25 | 22.61 | 19.37 | 19.24 | 19.20 |
| Electricity | 19.16 | 20.01 | 18.99 | 18.41 | 18.21 | 17.88 | 17.54 | 18.55 | 17.87 | 19.17 | 17.32 | 17.92 | 17.25 |
| Average End-Use Energy | 9.57 | 9.56 | 7.99 | 8.39 | 8.38 | 8.28 | 8.19 | 8.46 | 8.42 | 8.68 | 8.53 | 8.66 | 8.61 |
| Primary Energy | 8.27 | 8.14 | 6.48 | 6.97 | 6.96 | 6.86 | 6.79 | 6.92 | 6.98 | 7.07 | 7.20 | 7.27 | 7.31 |
| Electricity | 18.78 | 19.40 | 18.73 | 18.27 | 18.12 | 17.91 | 17.69 | 18.83 | 18.09 | 19.56 | 17.49 | 18.08 | 17.34 |
| Electric Generators 11/ | | | | | | | | | | | | | |
| Fossil Fuel Average | 2.73 | 2.65 | 1.94 | 2.15 | 2.04 | 2.02 | 1.99 | 2.03 | 2.13 | 2.19 | 2.26 | 2.32 | 2.39 |
| Petroleum Products | 6.42 | 5.26 | 5.28 | 5.85 | 4.98 | 4.80 | 4.72 | 4.73 | 4.77 | 4.78 | 4.88 | 5.04 | 5.06 |
| Distillate Fuel | 6.12 | 6.52 | 5.46 | 5.88 | 5.01 | 4.81 | 4.73 | 4.73 | 4.78 | 4.83 | 4.90 | 5.07 | 5.12 |
| Residual Fuel | 7.08 | 4.89 | 4.26 | 4.54 | 4.17 | 4.05 | 4.06 | 4.06 | 4.10 | 4.13 | 4.14 | 4.17 | 4.19 |
| Natural Gas | 4.35 | 4.21 | 2.99 | 3.40 | 3.15 | 3.10 | 3.04 | 3.16 | 3.29 | 3.44 | 3.64 | 3.74 | 3.87 |
| Steam Coal | 1.16 | 1.22 | 1.18 | 1.20 | 1.22 | 1.25 | 1.24 | 1.23 | 1.22 | 1.21 | 1.21 | 1.20 | 1.20 |
| Average Price to All Users 12/ | | | | | | | | | | | | | |
| Petroleum Products 2/ | 10.10 | 9.56 | 7.98 | 8.51 | 8.55 | 8.43 | 8.37 | 8.51 | 8.52 | 8.59 | 8.70 | 8.76 | 8.76 |

**Table 17. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**West South Central**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 9.54 | 8.82 | 8.20 | 8.80 | 8.44 | 8.20 | 8.33 | 8.76 | 8.71 | 8.86 | 8.95 | 9.08 | 8.98 |
| Jet Fuel | 6.74 | 5.81 | 5.47 | 5.90 | 5.65 | 5.41 | 5.19 | 5.18 | 5.20 | 5.24 | 5.27 | 5.52 | 5.56 |
| Liquefied Petroleum Gas | 12.19 | 12.42 | 7.83 | 8.24 | 9.09 | 9.00 | 8.63 | 8.88 | 8.92 | 8.95 | 9.20 | 9.24 | 9.27 |
| Motor Gasoline 7/ | 11.71 | 10.82 | 10.58 | 11.21 | 10.92 | 10.85 | 10.97 | 10.94 | 10.92 | 11.01 | 11.03 | 10.93 | 10.91 |
| Residual Fuel | 4.92 | 4.91 | 3.67 | 3.94 | 3.42 | 3.29 | 3.32 | 3.34 | 3.36 | 3.38 | 3.40 | 3.42 | 3.44 |
| Natural Gas | 4.63 | 5.00 | 3.48 | 3.89 | 3.64 | 3.59 | 3.51 | 3.61 | 3.70 | 3.83 | 4.00 | 4.09 | 4.20 |
| Coal | 1.16 | 1.23 | 1.18 | 1.20 | 1.22 | 1.25 | 1.24 | 1.23 | 1.22 | 1.21 | 1.21 | 1.20 | 1.20 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.22 | 19.98 | 20.22 | 20.43 | 21.97 | 22.25 | 22.61 | 19.37 | 19.24 | 19.20 |
| Electricity | 18.78 | 19.40 | 18.73 | 18.27 | 18.12 | 17.91 | 17.69 | 18.83 | 18.09 | 19.56 | 17.49 | 18.08 | 17.34 |
| | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | |
| Residential | 17.77 | 18.60 | 17.23 | 17.85 | 18.04 | 18.18 | 18.30 | 19.36 | 19.16 | 20.42 | 19.34 | 20.23 | 20.14 |
| Commercial | 11.75 | 12.93 | 11.98 | 11.94 | 12.05 | 12.11 | 12.19 | 13.23 | 13.02 | 14.34 | 13.21 | 13.88 | 13.62 |
| Industrial | 47.03 | 43.46 | 32.93 | 35.77 | 36.49 | 35.93 | 35.46 | 37.31 | 38.13 | 40.11 | 41.51 | 43.36 | 44.48 |
| Transportation | 39.26 | 36.21 | 34.75 | 37.86 | 37.45 | 37.77 | 39.14 | 40.82 | 41.95 | 43.70 | 45.22 | 46.66 | 47.67 |
| Total Non-Renewable Expenditures | 115.81 | 111.20 | 96.89 | 103.42 | 104.03 | 103.99 | 105.09 | 110.72 | 112.26 | 118.57 | 119.27 | 124.14 | 125.91 |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total Expenditures | 115.81 | 111.20 | 96.89 | 103.42 | 104.04 | 103.99 | 105.09 | 110.73 | 112.26 | 118.58 | 119.28 | 124.14 | 125.91 |

**Table 17. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**West South Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 16.24 | 15.91 | 16.04 | 16.01 | 16.12 | 16.05 | 16.19 | 16.49 | 16.66 | 16.93 | 16.91 | 17.04 | 16.74 | -0.2% |
| Primary Energy 1/ | 7.74 | 7.72 | 7.71 | 7.74 | 7.76 | 7.70 | 7.70 | 7.83 | 7.87 | 7.92 | 7.97 | 7.92 | 7.88 | -0.8% |
| Petroleum Products 2/ | 11.74 | 11.83 | 11.87 | 11.92 | 12.00 | 12.07 | 12.15 | 12.20 | 12.29 | 12.38 | 12.46 | 12.53 | 12.60 | -0.2% |
| Distillate Fuel | 6.54 | 6.74 | 6.79 | 6.85 | 7.03 | 7.15 | 7.33 | 7.37 | 7.54 | 7.69 | 7.80 | 7.85 | 7.95 | 0.5% |
| Liquefied Petroleum Gas | 13.50 | 13.54 | 13.58 | 13.62 | 13.66 | 13.71 | 13.75 | 13.79 | 13.85 | 13.91 | 13.97 | 14.03 | 14.09 | -0.3% |
| Natural Gas | 7.47 | 7.45 | 7.44 | 7.47 | 7.49 | 7.42 | 7.43 | 7.56 | 7.61 | 7.65 | 7.70 | 7.65 | 7.61 | -0.8% |
| Electricity | 21.35 | 20.78 | 20.95 | 20.82 | 20.96 | 20.85 | 21.05 | 21.43 | 21.67 | 22.05 | 21.98 | 22.19 | 21.73 | -0.3% |
| Commercial | 13.98 | 13.63 | 13.73 | 13.72 | 13.83 | 13.81 | 14.02 | 14.46 | 14.76 | 15.22 | 15.29 | 15.59 | 15.27 | -0.2% |
| Primary Energy 1/ | 6.11 | 6.10 | 6.10 | 6.14 | 6.17 | 6.12 | 6.14 | 6.28 | 6.34 | 6.40 | 6.46 | 6.42 | 6.39 | -0.9% |
| Petroleum Products 2/ | 7.95 | 8.08 | 8.12 | 8.17 | 8.30 | 8.38 | 8.50 | 8.54 | 8.65 | 8.77 | 8.86 | 8.91 | 9.01 | 0.0% |
| Distillate Fuel | 5.36 | 5.56 | 5.60 | 5.67 | 5.85 | 5.97 | 6.15 | 6.19 | 6.35 | 6.51 | 6.62 | 6.67 | 6.76 | 0.7% |
| Residual Fuel | 3.19 | 3.21 | 3.23 | 3.25 | 3.28 | 3.30 | 3.32 | 3.34 | 3.38 | 3.41 | 3.45 | 3.48 | 3.51 | 0.1% |
| Natural Gas | 6.03 | 6.01 | 6.01 | 6.05 | 6.08 | 6.02 | 6.04 | 6.18 | 6.24 | 6.30 | 6.35 | 6.31 | 6.28 | -0.9% |
| Electricity | 18.72 | 18.10 | 18.22 | 18.13 | 18.25 | 18.21 | 18.50 | 19.08 | 19.49 | 20.16 | 20.21 | 20.69 | 20.18 | -0.2% |
| Industrial 3/ | 6.74 | 6.74 | 6.77 | 6.81 | 6.86 | 6.87 | 6.92 | 7.01 | 7.09 | 7.18 | 7.24 | 7.27 | 7.26 | -0.4% |
| Primary Energy | 6.25 | 6.29 | 6.31 | 6.35 | 6.40 | 6.41 | 6.45 | 6.51 | 6.57 | 6.63 | 6.69 | 6.70 | 6.72 | -0.5% |
| Petroleum Products 2/ | 8.13 | 8.20 | 8.24 | 8.28 | 8.34 | 8.39 | 8.44 | 8.44 | 8.51 | 8.57 | 8.64 | 8.69 | 8.75 | -0.5% |
| Distillate Fuel | 5.78 | 5.98 | 6.03 | 6.09 | 6.27 | 6.39 | 6.57 | 6.61 | 6.77 | 6.93 | 7.04 | 7.09 | 7.18 | 0.6% |
| Liquefied Petroleum Gas | 9.25 | 9.29 | 9.33 | 9.38 | 9.42 | 9.46 | 9.50 | 9.54 | 9.61 | 9.67 | 9.73 | 9.79 | 9.85 | -0.9% |
| Residual Fuel | 3.33 | 3.35 | 3.37 | 3.39 | 3.42 | 3.44 | 3.46 | 3.49 | 3.52 | 3.55 | 3.59 | 3.62 | 3.65 | 1.3% |
| Natural Gas 4/ | 3.85 | 3.85 | 3.85 | 3.89 | 3.91 | 3.87 | 3.89 | 4.04 | 4.10 | 4.17 | 4.23 | 4.19 | 4.17 | -0.4% |
| Metallurgical Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Steam Coal | 1.15 | 1.15 | 1.14 | 1.14 | 1.13 | 1.12 | 1.12 | 1.11 | 1.11 | 1.10 | 1.10 | 1.10 | 1.09 | -0.6% |
| Electricity | 12.63 | 12.18 | 12.30 | 12.25 | 12.38 | 12.35 | 12.59 | 13.01 | 13.30 | 13.71 | 13.74 | 13.99 | 13.64 | 0.2% |
| Transportation | 9.08 | 9.09 | 9.09 | 9.13 | 9.30 | 9.35 | 9.37 | 9.36 | 9.44 | 9.53 | 9.63 | 9.67 | 9.85 | 0.4% |
| Primary Energy | 9.06 | 9.08 | 9.07 | 9.11 | 9.28 | 9.33 | 9.35 | 9.34 | 9.42 | 9.51 | 9.61 | 9.65 | 9.83 | 0.4% |
| Petroleum Products 2/ | 9.06 | 9.08 | 9.08 | 9.12 | 9.28 | 9.34 | 9.36 | 9.35 | 9.42 | 9.52 | 9.62 | 9.65 | 9.84 | 0.4% |
| Distillate Fuel 5/ | 9.65 | 9.60 | 9.60 | 9.63 | 9.75 | 9.82 | 9.79 | 9.74 | 9.87 | 10.00 | 10.07 | 10.10 | 10.16 | 0.2% |
| Jet Fuel 6/ | 5.70 | 5.84 | 5.86 | 5.90 | 6.07 | 6.21 | 6.32 | 6.34 | 6.51 | 6.66 | 6.76 | 6.79 | 6.89 | 0.7% |
| Motor Gasoline 7/ | 10.84 | 10.84 | 10.82 | 10.87 | 11.08 | 11.09 | 11.10 | 11.11 | 11.13 | 11.19 | 11.31 | 11.35 | 11.65 | 0.3% |
| Residual Fuel | 3.47 | 3.49 | 3.51 | 3.53 | 3.56 | 3.58 | 3.60 | 3.63 | 3.66 | 3.69 | 3.73 | 3.76 | 3.80 | -1.2% |
| Liquefied Petroleum Gas 8/ | 13.12 | 13.13 | 13.14 | 13.15 | 13.16 | 13.18 | 13.19 | 13.20 | 13.24 | 13.27 | 13.30 | 13.33 | 13.37 | -0.9% |
| Natural Gas 9/ | 5.48 | 5.54 | 5.60 | 5.68 | 5.74 | 5.73 | 5.80 | 5.98 | 6.09 | 6.20 | 6.29 | 6.28 | 6.28 | 1.2% |
| Ethanol (E85) 10/ | 19.08 | 19.10 | 19.07 | 19.16 | 19.47 | 19.49 | 19.51 | 19.52 | 19.56 | 19.66 | 19.84 | 19.92 | 20.36 | 0.6% |
| Electricity | 17.74 | 17.16 | 17.25 | 17.10 | 17.13 | 16.96 | 17.09 | 17.37 | 17.50 | 17.76 | 17.63 | 17.74 | 17.27 | -0.6% |
| Average End-Use Energy | 8.72 | 8.68 | 8.72 | 8.75 | 8.86 | 8.87 | 8.93 | 9.03 | 9.13 | 9.26 | 9.32 | 9.38 | 9.40 | -0.1% |
| Primary Energy | 7.36 | 7.40 | 7.41 | 7.46 | 7.56 | 7.59 | 7.62 | 7.67 | 7.74 | 7.81 | 7.89 | 7.91 | 8.00 | -0.1% |
| Electricity | 17.83 | 17.29 | 17.43 | 17.35 | 17.48 | 17.42 | 17.66 | 18.12 | 18.42 | 18.89 | 18.89 | 19.19 | 18.75 | -0.1% |
| Electric Generators 11/ | | | | | | | | | | | | | | |
| Fossil Fuel Average | 2.44 | 2.44 | 2.45 | 2.48 | 2.49 | 2.49 | 2.51 | 2.60 | 2.63 | 2.68 | 2.72 | 2.74 | 2.70 | 0.1% |
| Petroleum Products | 5.14 | 5.36 | 5.43 | 5.47 | 5.62 | 5.80 | 5.97 | 5.88 | 6.02 | 6.15 | 6.30 | 6.29 | 6.40 | 0.8% |
| Distillate Fuel | 5.27 | 5.47 | 5.52 | 5.58 | 5.76 | 5.88 | 6.06 | 6.10 | 6.27 | 6.42 | 6.53 | 6.58 | 6.68 | 0.1% |
| Residual Fuel | 4.21 | 4.23 | 4.26 | 4.28 | 4.30 | 4.32 | 4.35 | 4.37 | 4.41 | 4.44 | 4.47 | 4.51 | 4.54 | -0.3% |
| Natural Gas | 3.97 | 3.97 | 3.97 | 4.02 | 4.04 | 4.00 | 4.03 | 4.18 | 4.25 | 4.32 | 4.38 | 4.35 | 4.33 | 0.1% |
| Steam Coal | 1.19 | 1.19 | 1.18 | 1.18 | 1.17 | 1.16 | 1.15 | 1.14 | 1.14 | 1.13 | 1.13 | 1.12 | 1.12 | -0.4% |
| Average Price to All Users 12/ | | | | | | | | | | | | | | |
| Petroleum Products 2/ | 8.79 | 8.83 | 8.84 | 8.88 | 9.00 | 9.06 | 9.09 | 9.08 | 9.15 | 9.23 | 9.32 | 9.36 | 9.49 | 0.0% |

**Table 17. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**West South Central**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 8.91 | 8.92 | 8.93 | 8.97 | 9.11 | 9.19 | 9.21 | 9.17 | 9.31 | 9.45 | 9.53 | 9.57 | 9.64 | 0.4% |
| Jet Fuel | 5.70 | 5.84 | 5.86 | 5.90 | 6.07 | 6.21 | 6.32 | 6.34 | 6.51 | 6.66 | 6.76 | 6.79 | 6.89 | 0.7% |
| Liquefied Petroleum Gas | 9.31 | 9.35 | 9.39 | 9.44 | 9.48 | 9.52 | 9.56 | 9.60 | 9.66 | 9.72 | 9.78 | 9.84 | 9.90 | -0.9% |
| Motor Gasoline 7/ | 10.84 | 10.84 | 10.82 | 10.87 | 11.08 | 11.09 | 11.10 | 11.11 | 11.13 | 11.19 | 11.31 | 11.35 | 11.65 | 0.3% |
| Residual Fuel | 3.47 | 3.49 | 3.51 | 3.53 | 3.56 | 3.58 | 3.60 | 3.63 | 3.66 | 3.70 | 3.73 | 3.76 | 3.80 | -1.1% |
| Natural Gas | 4.29 | 4.29 | 4.28 | 4.32 | 4.35 | 4.30 | 4.32 | 4.47 | 4.53 | 4.59 | 4.65 | 4.61 | 4.59 | -0.4% |
| Coal | 1.19 | 1.19 | 1.18 | 1.18 | 1.17 | 1.16 | 1.15 | 1.14 | 1.14 | 1.13 | 1.13 | 1.12 | 1.12 | -0.4% |
| Ethanol (E85) 10/ | 19.08 | 19.10 | 19.07 | 19.16 | 19.47 | 19.49 | 19.51 | 19.52 | 19.56 | 19.66 | 19.84 | 19.92 | 20.36 | 0.6% |
| Electricity | 17.83 | 17.29 | 17.43 | 17.35 | 17.48 | 17.42 | 17.66 | 18.12 | 18.42 | 18.89 | 18.89 | 19.19 | 18.75 | -0.1% |
| | | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | | |
| Residential | 20.89 | 20.77 | 21.23 | 21.52 | 21.89 | 22.10 | 22.61 | 23.37 | 23.84 | 24.52 | 24.84 | 25.47 | 25.38 | 1.3% |
| Commercial | 14.15 | 13.98 | 14.25 | 14.39 | 14.66 | 14.81 | 15.22 | 15.86 | 16.36 | 17.03 | 17.26 | 17.78 | 17.63 | 1.3% |
| Industrial | 45.98 | 46.62 | 47.39 | 48.11 | 49.17 | 49.95 | 51.24 | 52.68 | 54.09 | 55.71 | 56.98 | 58.19 | 58.94 | 1.3% |
| Transportation | 48.67 | 49.88 | 50.87 | 52.09 | 54.06 | 55.42 | 56.66 | 57.57 | 59.04 | 60.73 | 62.50 | 63.98 | 66.38 | 2.6% |
| Total Non-Renewable Expenditures | 129.69 | 131.25 | 133.74 | 136.11 | 139.77 | 142.28 | 145.72 | 149.49 | 153.33 | 157.99 | 161.58 | 165.41 | 168.33 | 1.7% |
| Transportation Renewable Expenditures | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 9.9% |
| Total Expenditures | 129.70 | 131.26 | 133.74 | 136.12 | 139.78 | 142.29 | 145.73 | 149.50 | 153.34 | 158.00 | 161.59 | 165.42 | 168.34 | 1.7% |

**Table 17. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**West South Central**

1/ Weighted average price includes fuels below as well as coal.
2/ This quantity is the weighted average for all petroleum products, not just those listed below.
3/ Includes combined heat and power.
4/ Excludes uses for lease and plant fuel.
5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
8/ Includes Federal and State taxes while excluding county and local taxes.
9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
11/ Includes combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
Note: Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports.
Sources: 2000 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2000, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2001). 2001 prices for motor gasoline, distillate, and jet fuel are based on the Petroleum Marketing Annual 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (Setember 2002). 2000 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002). 2000 and 2001 electric power prices: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2000 and 2001 industrial gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2000 and 2001 coal prices based on EIA, Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. 2000 and 2001 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 18. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Mountain**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 12.95 | 14.25 | 12.79 | 12.28 | 12.35 | 12.45 | 12.34 | 12.35 | 12.60 | 12.74 | 12.93 | 12.90 | 12.97 |
| Primary Energy 1/ | 7.02 | 8.68 | 6.71 | 6.73 | 6.67 | 6.66 | 6.58 | 6.62 | 6.78 | 6.80 | 6.80 | 6.76 | 6.68 |
| Petroleum Products 2/ | 11.85 | 11.99 | 10.68 | 11.15 | 11.36 | 11.14 | 10.85 | 11.04 | 11.08 | 11.13 | 11.34 | 11.44 | 11.50 |
| Distillate Fuel | 8.58 | 7.79 | 7.57 | 8.52 | 7.98 | 7.42 | 7.34 | 7.34 | 7.39 | 7.43 | 7.50 | 7.68 | 7.72 |
| Liquefied Petroleum Gas | 13.00 | 13.72 | 11.82 | 12.24 | 12.75 | 12.66 | 12.29 | 12.54 | 12.58 | 12.61 | 12.86 | 12.90 | 12.94 |
| Natural Gas | 6.52 | 8.36 | 6.31 | 6.34 | 6.27 | 6.29 | 6.23 | 6.27 | 6.45 | 6.48 | 6.46 | 6.43 | 6.35 |
| Electricity | 22.00 | 22.55 | 22.08 | 20.73 | 21.05 | 21.30 | 21.16 | 21.12 | 21.45 | 21.73 | 22.23 | 22.23 | 22.57 |
| Commercial | 11.79 | 13.10 | 12.14 | 11.35 | 11.34 | 11.34 | 11.26 | 11.29 | 11.61 | 11.82 | 12.13 | 12.17 | 12.44 |
| Primary Energy 1/ | 5.64 | 7.16 | 5.30 | 5.23 | 5.21 | 5.27 | 5.26 | 5.34 | 5.56 | 5.63 | 5.67 | 5.66 | 5.61 |
| Petroleum Products 2/ | 8.99 | 8.46 | 7.61 | 7.83 | 7.48 | 7.37 | 7.22 | 7.26 | 7.31 | 7.35 | 7.44 | 7.58 | 7.61 |
| Distillate Fuel | 7.15 | 6.40 | 6.09 | 6.52 | 5.89 | 5.70 | 5.61 | 5.62 | 5.67 | 5.71 | 5.78 | 5.96 | 6.00 |
| Residual Fuel | 4.56 | 4.46 | 3.33 | 3.61 | 3.24 | 3.12 | 3.15 | 3.17 | 3.19 | 3.21 | 3.23 | 3.26 | 3.28 |
| Natural Gas | 5.48 | 7.21 | 5.21 | 5.14 | 5.13 | 5.21 | 5.22 | 5.30 | 5.54 | 5.61 | 5.65 | 5.63 | 5.57 |
| Electricity | 18.52 | 19.51 | 19.55 | 18.07 | 18.08 | 17.95 | 17.73 | 17.63 | 17.95 | 18.22 | 18.74 | 18.76 | 19.30 |
| Industrial 3/ | 6.32 | 6.40 | 6.01 | 6.07 | 6.03 | 5.99 | 5.96 | 6.00 | 6.17 | 6.24 | 6.34 | 6.37 | 6.43 |
| Primary Energy | 4.75 | 4.79 | 4.36 | 4.56 | 4.42 | 4.33 | 4.29 | 4.33 | 4.43 | 4.48 | 4.53 | 4.58 | 4.58 |
| Petroleum Products 2/ | 6.33 | 6.08 | 5.81 | 6.26 | 6.09 | 5.89 | 5.82 | 5.82 | 5.86 | 5.90 | 5.99 | 6.09 | 6.14 |
| Distillate Fuel | 6.94 | 6.50 | 6.38 | 6.80 | 6.17 | 5.98 | 5.90 | 5.90 | 5.95 | 6.00 | 6.06 | 6.24 | 6.28 |
| Liquefied Petroleum Gas | 11.28 | 11.86 | 8.77 | 9.21 | 9.54 | 9.46 | 9.09 | 9.34 | 9.38 | 9.41 | 9.66 | 9.70 | 9.74 |
| Residual Fuel | 3.30 | 3.23 | 3.72 | 4.01 | 3.62 | 3.50 | 3.53 | 3.55 | 3.57 | 3.59 | 3.62 | 3.64 | 3.66 |
| Natural Gas 4/ | 4.13 | 4.44 | 3.59 | 3.57 | 3.53 | 3.57 | 3.55 | 3.63 | 3.85 | 3.91 | 3.93 | 3.93 | 3.88 |
| Metallurgical Coal | 1.41 | 1.46 | 1.43 | 1.43 | 1.41 | 1.40 | 1.39 | 1.38 | 1.37 | 1.36 | 1.35 | 1.34 | 1.34 |
| Steam Coal | 1.41 | 1.41 | 1.43 | 1.41 | 1.39 | 1.38 | 1.38 | 1.36 | 1.35 | 1.34 | 1.31 | 1.31 | 1.30 |
| Electricity | 11.47 | 11.85 | 11.95 | 11.33 | 11.42 | 11.47 | 11.41 | 11.41 | 11.68 | 11.81 | 12.04 | 11.94 | 12.13 |
| Transportation | 11.78 | 10.97 | 10.34 | 10.94 | 10.87 | 10.74 | 10.85 | 10.97 | 10.94 | 11.05 | 11.08 | 11.06 | 11.00 |
| Primary Energy | 11.76 | 10.95 | 10.31 | 10.92 | 10.85 | 10.72 | 10.83 | 10.95 | 10.92 | 11.03 | 11.05 | 11.04 | 10.98 |
| Petroleum Products 2/ | 11.76 | 10.95 | 10.31 | 10.92 | 10.86 | 10.72 | 10.83 | 10.96 | 10.92 | 11.04 | 11.06 | 11.06 | 10.99 |
| Distillate Fuel 5/ | 11.37 | 10.45 | 9.65 | 10.30 | 10.17 | 9.91 | 10.07 | 10.60 | 10.50 | 10.66 | 10.74 | 10.85 | 10.70 |
| Jet Fuel 6/ | 7.80 | 6.70 | 6.45 | 6.87 | 6.64 | 6.40 | 6.18 | 6.17 | 6.19 | 6.23 | 6.17 | 6.34 | 6.32 |
| Motor Gasoline 7/ | 12.85 | 12.09 | 11.41 | 12.03 | 12.01 | 11.94 | 12.09 | 12.06 | 12.04 | 12.14 | 12.16 | 12.06 | 12.03 |
| Residual Fuel | 3.19 | 3.36 | 3.52 | 3.39 | 3.42 | 3.43 | 3.45 | 3.45 | 3.47 | 3.49 | 3.50 | 3.52 | 3.54 |
| Liquefied Petroleum Gas 8/ | 16.08 | 17.04 | 14.23 | 14.66 | 13.58 | 13.46 | 13.06 | 13.29 | 13.30 | 13.31 | 13.53 | 13.55 | 13.55 |
| Natural Gas 9/ | 5.65 | 6.00 | 4.86 | 5.15 | 5.21 | 5.34 | 5.52 | 5.74 | 6.14 | 6.35 | 6.49 | 6.56 | 6.59 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.43 | 19.19 | 19.43 | 19.64 | 21.18 | 21.46 | 21.82 | 22.06 | 22.12 | 22.22 |
| Electricity | 18.92 | 19.40 | 19.25 | 18.11 | 18.23 | 18.30 | 18.09 | 18.00 | 18.21 | 18.36 | 18.66 | 18.54 | 18.68 |
| Average End-Use Energy | 10.55 | 10.65 | 9.92 | 10.04 | 10.05 | 10.01 | 10.03 | 10.11 | 10.23 | 10.36 | 10.47 | 10.48 | 10.52 |
| Primary Energy | 8.97 | 8.88 | 8.02 | 8.42 | 8.38 | 8.33 | 8.41 | 8.53 | 8.60 | 8.71 | 8.77 | 8.79 | 8.76 |
| Electricity | 17.42 | 18.24 | 18.25 | 17.06 | 17.22 | 17.28 | 17.13 | 17.08 | 17.38 | 17.61 | 18.02 | 18.00 | 18.36 |
| Electric Generators 11/ | | | | | | | | | | | | | |
| Fossil Fuel Average | 1.56 | 1.79 | 1.35 | 1.49 | 1.51 | 1.51 | 1.46 | 1.37 | 1.45 | 1.42 | 1.44 | 1.42 | 1.43 |
| Petroleum Products | 4.65 | 6.74 | 6.33 | 6.76 | 6.06 | 5.87 | 5.78 | 5.79 | 5.84 | 5.88 | 5.95 | 6.12 | 6.17 |
| Distillate Fuel | 8.15 | 7.72 | 6.33 | 6.76 | 6.06 | 5.87 | 5.78 | 5.79 | 5.84 | 5.88 | 5.95 | 6.12 | 6.17 |
| Residual Fuel | 4.49 | 6.52 | 4.54 | 4.82 | 4.43 | 4.31 | 4.34 | 4.36 | 4.34 | 4.36 | 4.42 | 4.40 | 4.46 |
| Natural Gas | 4.61 | 5.32 | 2.91 | 3.31 | 3.45 | 3.59 | 3.61 | 3.63 | 3.95 | 4.03 | 4.11 | 4.09 | 4.07 |
| Steam Coal | 1.07 | 1.07 | 1.04 | 1.04 | 1.03 | 1.03 | 1.01 | 1.00 | 0.98 | 0.98 | 0.97 | 0.97 | 0.97 |
| Average Price to All Users 12/ | | | | | | | | | | | | | |
| Petroleum Products 2/ | 10.82 | 10.11 | 9.57 | 10.17 | 10.12 | 9.99 | 10.08 | 10.20 | 10.19 | 10.30 | 10.35 | 10.37 | 10.34 |

**Table 18. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Mountain**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 10.29 | 9.47 | 8.83 | 9.45 | 9.21 | 8.98 | 9.11 | 9.54 | 9.49 | 9.65 | 9.76 | 9.90 | 9.81 |
| Jet Fuel | 7.80 | 6.70 | 6.45 | 6.87 | 6.64 | 6.40 | 6.18 | 6.17 | 6.19 | 6.23 | 6.17 | 6.34 | 6.32 |
| Liquefied Petroleum Gas | 12.51 | 13.25 | 10.92 | 11.33 | 11.74 | 11.66 | 11.29 | 11.54 | 11.57 | 11.60 | 11.83 | 11.87 | 11.90 |
| Motor Gasoline 7/ | 12.85 | 12.09 | 11.41 | 12.03 | 12.00 | 11.93 | 12.08 | 12.06 | 12.04 | 12.14 | 12.16 | 12.06 | 12.02 |
| Residual Fuel | 4.29 | 6.25 | 3.72 | 4.00 | 3.61 | 3.49 | 3.52 | 3.53 | 3.56 | 3.58 | 3.60 | 3.62 | 3.65 |
| Natural Gas | 5.21 | 6.33 | 4.43 | 4.49 | 4.53 | 4.63 | 4.65 | 4.77 | 4.99 | 5.07 | 5.10 | 5.10 | 5.04 |
| Coal | 1.08 | 1.08 | 1.06 | 1.06 | 1.05 | 1.04 | 1.03 | 1.01 | 1.00 | 0.99 | 0.99 | 0.99 | 0.98 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.43 | 19.19 | 19.43 | 19.64 | 21.18 | 21.46 | 21.82 | 22.06 | 22.12 | 22.22 |
| Electricity | 17.42 | 18.24 | 18.25 | 17.06 | 17.22 | 17.28 | 17.13 | 17.08 | 17.38 | 17.61 | 18.02 | 18.00 | 18.36 |
| | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | |
| Residential | 8.15 | 9.08 | 8.47 | 8.52 | 8.85 | 9.10 | 9.23 | 9.45 | 9.85 | 10.12 | 10.48 | 10.68 | 11.00 |
| Commercial | 5.86 | 6.82 | 6.45 | 6.24 | 6.43 | 6.54 | 6.61 | 6.78 | 7.14 | 7.48 | 7.91 | 8.17 | 8.57 |
| Industrial | 5.74 | 5.59 | 5.26 | 5.38 | 5.46 | 5.47 | 5.53 | 5.68 | 5.96 | 6.15 | 6.39 | 6.55 | 6.73 |
| Transportation | 20.60 | 19.35 | 18.45 | 20.23 | 20.78 | 21.27 | 22.35 | 23.53 | 24.40 | 25.64 | 26.75 | 27.73 | 28.53 |
| Total Non-Renewable Expenditures | 40.35 | 40.84 | 38.63 | 40.38 | 41.52 | 42.39 | 43.72 | 45.44 | 47.36 | 49.39 | 51.52 | 53.12 | 54.83 |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Expenditures | 40.35 | 40.84 | 38.63 | 40.38 | 41.52 | 42.39 | 43.72 | 45.44 | 47.36 | 49.40 | 51.53 | 53.13 | 54.84 |

**Table 18. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Mountain**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 12.74 | 13.12 | 13.07 | 13.29 | 13.11 | 13.24 | 13.15 | 13.40 | 13.14 | 13.41 | 13.37 | 13.86 | 13.91 | -0.1% |
| Primary Energy 1/ | 6.62 | 6.87 | 6.99 | 7.05 | 7.03 | 6.99 | 7.00 | 7.08 | 6.98 | 7.03 | 7.14 | 7.38 | 7.53 | -0.6% |
| Petroleum Products 2/ | 11.60 | 11.71 | 11.78 | 11.86 | 11.96 | 12.05 | 12.16 | 12.23 | 12.34 | 12.46 | 12.56 | 12.64 | 12.73 | 0.3% |
| Distillate Fuel | 7.88 | 8.08 | 8.12 | 8.19 | 8.37 | 8.49 | 8.67 | 8.71 | 8.87 | 9.03 | 9.14 | 9.19 | 9.28 | 0.7% |
| Liquefied Petroleum Gas | 12.98 | 13.02 | 13.06 | 13.10 | 13.15 | 13.19 | 13.23 | 13.27 | 13.33 | 13.39 | 13.46 | 13.51 | 13.58 | 0.0% |
| Natural Gas | 6.28 | 6.56 | 6.69 | 6.75 | 6.73 | 6.69 | 6.70 | 6.79 | 6.68 | 6.74 | 6.86 | 7.11 | 7.26 | -0.6% |
| Electricity | 22.11 | 22.66 | 22.27 | 22.72 | 22.27 | 22.66 | 22.41 | 22.90 | 22.42 | 23.02 | 22.76 | 23.60 | 23.47 | 0.2% |
| Commercial | 12.13 | 12.63 | 12.42 | 12.77 | 12.49 | 12.77 | 12.61 | 13.03 | 12.63 | 13.06 | 12.87 | 13.56 | 13.53 | 0.1% |
| Primary Energy 1/ | 5.56 | 5.82 | 5.94 | 6.00 | 6.00 | 5.98 | 6.00 | 6.10 | 5.99 | 6.05 | 6.17 | 6.41 | 6.56 | -0.4% |
| Petroleum Products 2/ | 7.72 | 7.88 | 7.92 | 7.97 | 8.13 | 8.22 | 8.36 | 8.39 | 8.52 | 8.65 | 8.75 | 8.80 | 8.90 | 0.2% |
| Distillate Fuel | 6.16 | 6.35 | 6.40 | 6.47 | 6.65 | 6.76 | 6.94 | 6.99 | 7.15 | 7.31 | 7.42 | 7.47 | 7.56 | 0.7% |
| Residual Fuel | 3.30 | 3.33 | 3.35 | 3.37 | 3.40 | 3.42 | 3.44 | 3.47 | 3.50 | 3.54 | 3.57 | 3.60 | 3.64 | -0.8% |
| Natural Gas | 5.51 | 5.79 | 5.92 | 5.98 | 5.97 | 5.94 | 5.96 | 6.06 | 5.94 | 6.00 | 6.12 | 6.39 | 6.54 | -0.4% |
| Electricity | 18.69 | 19.34 | 18.71 | 19.27 | 18.66 | 19.17 | 18.79 | 19.48 | 18.77 | 19.52 | 19.00 | 20.04 | 19.77 | 0.1% |
| Industrial 3/ | 6.40 | 6.65 | 6.65 | 6.76 | 6.74 | 6.83 | 6.85 | 7.00 | 6.93 | 7.11 | 7.13 | 7.39 | 7.45 | 0.6% |
| Primary Energy | 4.64 | 4.84 | 4.93 | 4.99 | 5.06 | 5.10 | 5.19 | 5.25 | 5.27 | 5.36 | 5.45 | 5.58 | 5.69 | 0.7% |
| Petroleum Products 2/ | 6.31 | 6.49 | 6.57 | 6.62 | 6.77 | 6.86 | 7.01 | 7.03 | 7.16 | 7.29 | 7.39 | 7.44 | 7.54 | 0.9% |
| Distillate Fuel | 6.44 | 6.64 | 6.69 | 6.75 | 6.93 | 7.05 | 7.23 | 7.27 | 7.43 | 7.59 | 7.70 | 7.75 | 7.84 | 0.8% |
| Liquefied Petroleum Gas | 9.78 | 9.82 | 9.86 | 9.90 | 9.94 | 9.99 | 10.03 | 10.07 | 10.13 | 10.19 | 10.25 | 10.31 | 10.37 | -0.6% |
| Residual Fuel | 3.68 | 3.71 | 3.73 | 3.75 | 3.78 | 3.80 | 3.82 | 3.85 | 3.88 | 3.92 | 3.95 | 3.98 | 4.02 | 0.9% |
| Natural Gas 4/ | 3.83 | 4.12 | 4.27 | 4.34 | 4.34 | 4.32 | 4.37 | 4.51 | 4.39 | 4.45 | 4.57 | 4.84 | 5.00 | 0.5% |
| Metallurgical Coal | 1.34 | 1.33 | 1.32 | 1.32 | 1.31 | 1.31 | 1.30 | 1.31 | 1.30 | 1.30 | 1.30 | 1.29 | 1.29 | -0.5% |
| Steam Coal | 1.29 | 1.29 | 1.28 | 1.27 | 1.27 | 1.25 | 1.24 | 1.23 | 1.22 | 1.22 | 1.21 | 1.20 | 1.19 | -0.7% |
| Electricity | 11.77 | 12.11 | 11.79 | 12.07 | 11.72 | 11.96 | 11.76 | 12.12 | 11.77 | 12.20 | 11.98 | 12.57 | 12.45 | 0.2% |
| Transportation | 10.92 | 10.92 | 10.90 | 10.94 | 11.11 | 11.15 | 11.15 | 11.13 | 11.19 | 11.28 | 11.37 | 11.41 | 11.62 | 0.2% |
| Primary Energy | 10.90 | 10.90 | 10.88 | 10.92 | 11.09 | 11.13 | 11.13 | 11.11 | 11.17 | 11.26 | 11.36 | 11.39 | 11.60 | 0.2% |
| Petroleum Products 2/ | 10.92 | 10.91 | 10.89 | 10.93 | 11.11 | 11.14 | 11.15 | 11.12 | 11.18 | 11.27 | 11.37 | 11.41 | 11.61 | 0.2% |
| Distillate Fuel 5/ | 10.57 | 10.52 | 10.51 | 10.54 | 10.66 | 10.74 | 10.71 | 10.65 | 10.79 | 10.91 | 10.98 | 11.01 | 11.07 | 0.2% |
| Jet Fuel 6/ | 6.40 | 6.49 | 6.46 | 6.47 | 6.60 | 6.71 | 6.79 | 6.79 | 6.93 | 7.07 | 7.14 | 7.16 | 7.24 | 0.3% |
| Motor Gasoline 7/ | 11.95 | 11.95 | 11.93 | 11.98 | 12.19 | 12.20 | 12.21 | 12.22 | 12.24 | 12.30 | 12.42 | 12.47 | 12.77 | 0.2% |
| Residual Fuel | 3.55 | 3.57 | 3.59 | 3.61 | 3.63 | 3.65 | 3.66 | 3.68 | 4.61 | 4.61 | 4.61 | 4.61 | 4.61 | 1.3% |
| Liquefied Petroleum Gas 8/ | 13.56 | 13.57 | 13.58 | 13.59 | 13.61 | 13.62 | 13.63 | 13.64 | 13.68 | 13.71 | 13.74 | 13.77 | 13.81 | -0.9% |
| Natural Gas 9/ | 6.57 | 6.84 | 7.00 | 7.07 | 7.09 | 7.12 | 7.16 | 7.30 | 7.14 | 7.19 | 7.32 | 7.62 | 7.81 | 1.1% |
| Ethanol (E85) 10/ | 22.29 | 22.39 | 22.70 | 22.78 | 22.89 | 22.95 | 23.02 | 23.11 | 23.15 | 23.25 | 23.38 | 23.51 | 23.67 | 1.2% |
| Electricity | 18.18 | 18.51 | 18.07 | 18.34 | 17.79 | 17.95 | 17.61 | 17.86 | 17.29 | 17.62 | 17.27 | 17.80 | 17.58 | -0.4% |
| Average End-Use Energy | 10.41 | 10.59 | 10.55 | 10.69 | 10.71 | 10.82 | 10.80 | 10.91 | 10.84 | 11.03 | 11.06 | 11.30 | 11.42 | 0.3% |
| Primary Energy | 8.74 | 8.85 | 8.90 | 8.96 | 9.10 | 9.13 | 9.17 | 9.19 | 9.23 | 9.32 | 9.43 | 9.54 | 9.74 | 0.4% |
| Electricity | 17.88 | 18.40 | 17.96 | 18.41 | 17.93 | 18.33 | 18.05 | 18.58 | 18.05 | 18.65 | 18.30 | 19.14 | 18.96 | 0.2% |
| Electric Generators 11/ | | | | | | | | | | | | | | |
| Fossil Fuel Average | 1.37 | 1.38 | 1.31 | 1.32 | 1.27 | 1.28 | 1.25 | 1.27 | 1.29 | 1.31 | 1.30 | 1.34 | 1.32 | -1.3% |
| Petroleum Products | 6.33 | 6.52 | 6.57 | 6.64 | 6.81 | 6.93 | 7.11 | 7.16 | 7.32 | 7.48 | 7.58 | 7.64 | 7.73 | 0.6% |
| Distillate Fuel | 6.33 | 6.52 | 6.57 | 6.64 | 6.81 | 6.93 | 7.11 | 7.16 | 7.32 | 7.48 | 7.58 | 7.64 | 7.73 | 0.0% |
| Residual Fuel | 4.47 | 4.49 | 4.51 | 4.53 | 4.55 | 4.57 | 4.60 | 4.62 | 4.62 | 4.62 | 4.62 | 4.62 | 4.57 | -1.5% |
| Natural Gas | 3.96 | 4.20 | 4.30 | 4.34 | 4.31 | 4.35 | 4.33 | 4.46 | 4.26 | 4.29 | 4.39 | 4.69 | 4.86 | -0.4% |
| Steam Coal | 0.96 | 0.95 | 0.95 | 0.94 | 0.93 | 0.93 | 0.93 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | -0.6% |
| Average Price to All Users 12/ | | | | | | | | | | | | | | |
| Petroleum Products 2/ | 10.31 | 10.34 | 10.35 | 10.39 | 10.57 | 10.62 | 10.65 | 10.64 | 10.72 | 10.81 | 10.92 | 10.96 | 11.16 | 0.4% |

**Table 18. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Mountain**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 9.75 | 9.76 | 9.78 | 9.82 | 9.97 | 10.06 | 10.08 | 10.04 | 10.19 | 10.33 | 10.41 | 10.46 | 10.53 | 0.4% |
| Jet Fuel | 6.40 | 6.49 | 6.46 | 6.47 | 6.60 | 6.71 | 6.79 | 6.79 | 6.93 | 7.07 | 7.14 | 7.16 | 7.24 | 0.3% |
| Liquefied Petroleum Gas | 11.93 | 11.97 | 12.01 | 12.05 | 12.09 | 12.13 | 12.17 | 12.21 | 12.26 | 12.32 | 12.37 | 12.43 | 12.49 | -0.2% |
| Motor Gasoline 7/ | 11.95 | 11.95 | 11.93 | 11.98 | 12.19 | 12.20 | 12.21 | 12.22 | 12.24 | 12.30 | 12.42 | 12.47 | 12.77 | 0.2% |
| Residual Fuel | 3.67 | 3.69 | 3.71 | 3.74 | 3.76 | 3.78 | 3.81 | 3.83 | 3.87 | 3.90 | 3.93 | 3.97 | 4.00 | -1.8% |
| Natural Gas | 5.00 | 5.28 | 5.46 | 5.51 | 5.53 | 5.51 | 5.55 | 5.66 | 5.49 | 5.53 | 5.66 | 5.93 | 6.10 | -0.2% |
| Coal | 0.97 | 0.97 | 0.96 | 0.95 | 0.95 | 0.94 | 0.94 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | -0.6% |
| Ethanol (E85) 10/ | 22.29 | 22.39 | 22.70 | 22.78 | 22.89 | 22.95 | 23.02 | 23.11 | 23.15 | 23.25 | 23.38 | 23.51 | 23.67 | 1.2% |
| Electricity | 17.88 | 18.40 | 17.96 | 18.41 | 17.93 | 18.33 | 18.05 | 18.58 | 18.05 | 18.65 | 18.30 | 19.14 | 18.96 | 0.2% |
| | | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | | |
| Residential | 11.01 | 11.53 | 11.66 | 12.07 | 12.08 | 12.41 | 12.55 | 13.03 | 12.98 | 13.48 | 13.67 | 14.40 | 14.61 | 2.0% |
| Commercial | 8.59 | 9.16 | 9.24 | 9.76 | 9.85 | 10.37 | 10.55 | 11.18 | 11.12 | 11.77 | 11.89 | 12.80 | 13.09 | 2.8% |
| Industrial | 6.78 | 7.15 | 7.23 | 7.44 | 7.50 | 7.71 | 7.86 | 8.15 | 8.19 | 8.55 | 8.70 | 9.19 | 9.41 | 2.2% |
| Transportation | 29.28 | 30.19 | 31.01 | 31.98 | 33.38 | 34.41 | 35.40 | 36.23 | 37.34 | 38.61 | 40.01 | 41.28 | 43.13 | 3.4% |
| Total Non-Renewable Expenditures | 55.66 | 58.03 | 59.14 | 61.25 | 62.80 | 64.90 | 66.36 | 68.59 | 69.63 | 72.41 | 74.27 | 77.68 | 80.24 | 2.9% |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 11.6% |
| Total Expenditures | 55.66 | 58.03 | 59.14 | 61.26 | 62.81 | 64.91 | 66.37 | 68.60 | 69.64 | 72.42 | 74.28 | 77.69 | 80.25 | 2.9% |

**Table 18. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Mountain**

1/ Weighted average price includes fuels below as well as coal.
2/ This quantity is the weighted average for all petroleum products, not just those listed below.
3/ Includes combined heat and power.
4/ Excludes uses for lease and plant fuel.
5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
8/ Includes Federal and State taxes while excluding county and local taxes.
9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
11/ Includes combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
Note: Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports.
Sources: 2000 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2000, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2001). 2001 prices for motor gasoline, distillate, and jet fuel are based on the Petroleum Marketing Annual 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (Setember 2002). 2000 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002). 2000 and 2001 electric power prices: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2000 and 2001 industrial gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2000 and 2001 coal prices based on EIA, Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. 2000 and 2001 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 19. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Pacific**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 15.14 | 18.52 | 15.52 | 14.72 | 14.45 | 14.51 | 14.47 | 14.58 | 14.83 | 14.98 | 15.09 | 15.03 | 14.83 |
| Primary Energy 1/ | 8.31 | 10.00 | 7.29 | 7.54 | 7.51 | 7.58 | 7.58 | 7.57 | 7.75 | 7.81 | 7.85 | 7.85 | 7.81 |
| Petroleum Products 2/ | 13.00 | 13.10 | 11.96 | 12.38 | 11.30 | 11.00 | 11.27 | 11.25 | 11.55 | 11.65 | 11.97 | 12.21 | 12.05 |
| Distillate Fuel | 10.25 | 9.44 | 8.32 | 9.27 | 8.09 | 7.67 | 7.84 | 7.91 | 7.99 | 8.03 | 8.04 | 7.96 | 8.06 |
| Liquefied Petroleum Gas | 15.40 | 16.81 | 15.16 | 15.59 | 14.67 | 14.51 | 14.95 | 14.86 | 15.40 | 15.60 | 16.29 | 16.93 | 16.51 |
| Natural Gas | 7.95 | 9.76 | 6.94 | 7.20 | 7.25 | 7.35 | 7.34 | 7.33 | 7.51 | 7.56 | 7.60 | 7.58 | 7.56 |
| Electricity | 25.62 | 31.85 | 28.73 | 26.16 | 25.48 | 25.43 | 25.33 | 25.63 | 25.97 | 26.27 | 26.48 | 26.37 | 25.92 |
| Commercial | 17.55 | 22.10 | 18.98 | 17.56 | 17.01 | 17.02 | 16.94 | 17.09 | 17.32 | 17.51 | 17.62 | 17.54 | 17.23 |
| Primary Energy 1/ | 6.93 | 7.32 | 6.21 | 6.28 | 6.25 | 6.35 | 6.38 | 6.42 | 6.61 | 6.70 | 6.77 | 6.77 | 6.76 |
| Petroleum Products 2/ | 8.97 | 8.25 | 7.69 | 7.95 | 6.83 | 6.80 | 6.88 | 6.95 | 7.08 | 7.11 | 7.19 | 7.18 | 7.18 |
| Distillate Fuel | 7.60 | 6.54 | 6.15 | 6.57 | 5.30 | 5.25 | 5.41 | 5.48 | 5.57 | 5.60 | 5.61 | 5.53 | 5.63 |
| Residual Fuel | 3.99 | 3.89 | 3.98 | 4.26 | 3.79 | 3.67 | 3.69 | 3.71 | 3.73 | 3.75 | 3.77 | 3.79 | 3.81 |
| Natural Gas | 6.86 | 7.35 | 6.17 | 6.24 | 6.30 | 6.40 | 6.43 | 6.47 | 6.67 | 6.76 | 6.84 | 6.84 | 6.83 |
| Electricity | 25.04 | 33.08 | 28.40 | 25.71 | 24.68 | 24.47 | 24.21 | 24.35 | 24.52 | 24.68 | 24.72 | 24.52 | 23.94 |
| Industrial 3/ | 7.12 | 7.83 | 5.73 | 5.84 | 6.00 | 6.01 | 6.08 | 6.15 | 6.33 | 6.43 | 6.57 | 6.62 | 6.56 |
| Primary Energy | 5.59 | 5.48 | 4.09 | 4.36 | 4.55 | 4.55 | 4.64 | 4.67 | 4.84 | 4.92 | 5.07 | 5.14 | 5.12 |
| Petroleum Products 2/ | 7.04 | 6.37 | 5.98 | 6.42 | 6.32 | 6.22 | 6.42 | 6.48 | 6.63 | 6.73 | 6.96 | 7.14 | 7.06 |
| Distillate Fuel | 7.87 | 6.84 | 6.52 | 6.94 | 5.68 | 5.63 | 5.79 | 5.86 | 5.95 | 5.98 | 6.00 | 5.91 | 6.01 |
| Liquefied Petroleum Gas | 12.24 | 13.71 | 11.64 | 12.07 | 11.29 | 11.13 | 11.56 | 11.48 | 12.01 | 12.21 | 12.90 | 13.54 | 13.13 |
| Residual Fuel | 3.74 | 3.65 | 3.91 | 4.19 | 3.79 | 3.67 | 3.69 | 3.71 | 3.73 | 3.75 | 3.77 | 3.79 | 3.81 |
| Natural Gas 4/ | 4.90 | 5.10 | 3.03 | 3.24 | 3.43 | 3.53 | 3.54 | 3.58 | 3.78 | 3.87 | 3.95 | 3.97 | 3.97 |
| Metallurgical Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Steam Coal | 1.81 | 1.85 | 1.86 | 1.85 | 1.82 | 1.80 | 1.78 | 1.77 | 1.75 | 1.74 | 1.73 | 1.73 | 1.73 |
| Electricity | 15.39 | 20.56 | 15.56 | 14.30 | 13.74 | 13.63 | 13.53 | 13.65 | 13.76 | 13.86 | 13.91 | 13.77 | 13.48 |
| Transportation | 11.34 | 10.54 | 9.78 | 10.34 | 10.18 | 10.05 | 10.05 | 10.37 | 10.50 | 10.51 | 10.58 | 10.48 | 10.50 |
| Primary Energy | 11.30 | 10.50 | 9.73 | 10.31 | 10.14 | 10.02 | 10.02 | 10.34 | 10.47 | 10.48 | 10.55 | 10.44 | 10.47 |
| Petroleum Products 2/ | 11.30 | 10.50 | 9.73 | 10.31 | 10.15 | 10.02 | 10.02 | 10.34 | 10.47 | 10.48 | 10.55 | 10.45 | 10.47 |
| Distillate Fuel 5/ | 12.03 | 10.88 | 10.13 | 10.78 | 10.02 | 9.91 | 10.21 | 10.66 | 10.51 | 10.47 | 10.70 | 10.73 | 10.86 |
| Jet Fuel 6/ | 7.63 | 6.38 | 6.18 | 6.60 | 5.39 | 5.30 | 5.42 | 5.73 | 5.74 | 5.75 | 5.77 | 5.71 | 5.70 |
| Motor Gasoline 7/ | 13.53 | 12.88 | 11.64 | 12.26 | 12.61 | 12.45 | 12.31 | 12.62 | 12.85 | 12.86 | 12.89 | 12.71 | 12.71 |
| Residual Fuel | 4.61 | 3.33 | 3.89 | 4.16 | 3.72 | 3.59 | 3.61 | 3.63 | 3.65 | 3.67 | 3.69 | 3.71 | 3.73 |
| Liquefied Petroleum Gas 8/ | 15.84 | 16.97 | 14.67 | 15.09 | 13.48 | 13.28 | 13.69 | 13.58 | 14.09 | 14.26 | 14.93 | 15.54 | 15.09 |
| Natural Gas 9/ | 6.91 | 8.94 | 5.76 | 6.09 | 6.17 | 6.32 | 6.49 | 6.67 | 7.04 | 7.25 | 7.40 | 7.47 | 7.51 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.33 | 19.69 | 19.92 | 20.06 | 21.68 | 22.03 | 22.35 | 22.61 | 22.68 | 22.80 |
| Electricity | 23.53 | 24.83 | 25.84 | 22.51 | 22.51 | 22.49 | 22.28 | 22.31 | 22.40 | 22.31 | 22.21 | 21.82 | 21.41 |
| Average End-Use Energy | 11.29 | 12.16 | 10.42 | 10.47 | 10.39 | 10.36 | 10.37 | 10.58 | 10.76 | 10.83 | 10.91 | 10.85 | 10.79 |
| Primary Energy | 9.09 | 8.84 | 7.65 | 8.09 | 8.08 | 8.05 | 8.10 | 8.31 | 8.48 | 8.54 | 8.64 | 8.60 | 8.62 |
| Electricity | 22.51 | 29.26 | 25.15 | 22.84 | 22.01 | 21.89 | 21.71 | 21.88 | 22.05 | 22.22 | 22.27 | 22.09 | 21.63 |
| Electric Generators 11/ | | | | | | | | | | | | | |
| Fossil Fuel Average | 4.23 | 5.74 | 2.94 | 3.13 | 3.21 | 3.30 | 3.32 | 3.36 | 3.57 | 3.69 | 3.81 | 3.87 | 3.91 |
| Petroleum Products | 5.43 | 4.84 | 4.75 | 5.05 | 5.06 | 4.91 | 4.98 | 5.01 | 5.03 | 5.05 | 5.10 | 5.11 | 5.14 |
| Distillate Fuel | 8.17 | 6.38 | 5.85 | 6.29 | 4.94 | 4.89 | 5.06 | 5.13 | 5.21 | 5.25 | 5.26 | 5.18 | 5.28 |
| Residual Fuel | 5.11 | 3.86 | 4.61 | 4.89 | 5.07 | 4.91 | 4.97 | 4.99 | 5.01 | 5.01 | 5.03 | 5.06 | 5.09 |
| Natural Gas | 4.56 | 6.49 | 3.02 | 3.22 | 3.31 | 3.43 | 3.46 | 3.51 | 3.74 | 3.86 | 3.98 | 4.03 | 4.07 |
| Steam Coal | 1.51 | 1.65 | 1.63 | 1.67 | 1.67 | 1.67 | 1.65 | 1.63 | 1.62 | 1.61 | 1.61 | 1.60 | 1.59 |
| Average Price to All Users 12/ | | | | | | | | | | | | | |
| Petroleum Products 2/ | 10.62 | 9.83 | 9.20 | 9.75 | 9.57 | 9.46 | 9.51 | 9.79 | 9.93 | 9.96 | 10.05 | 9.98 | 10.00 |

**Table 19. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Pacific**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 11.27 | 9.95 | 9.48 | 10.11 | 9.28 | 9.17 | 9.45 | 9.85 | 9.75 | 9.73 | 9.87 | 9.82 | 10.01 |
| Jet Fuel | 7.63 | 6.38 | 6.18 | 6.60 | 5.39 | 5.30 | 5.42 | 5.73 | 5.74 | 5.75 | 5.77 | 5.71 | 5.70 |
| Liquefied Petroleum Gas | 13.80 | 15.14 | 13.22 | 13.58 | 12.12 | 11.96 | 12.39 | 12.30 | 12.83 | 13.01 | 13.66 | 14.25 | 13.81 |
| Motor Gasoline 7/ | 13.53 | 12.88 | 11.64 | 12.26 | 12.61 | 12.45 | 12.31 | 12.62 | 12.85 | 12.86 | 12.89 | 12.71 | 12.71 |
| Residual Fuel | 4.71 | 3.46 | 4.01 | 4.29 | 3.97 | 3.82 | 3.85 | 3.87 | 3.89 | 3.91 | 3.93 | 3.96 | 3.98 |
| Natural Gas | 5.58 | 6.71 | 4.14 | 4.41 | 4.54 | 4.63 | 4.64 | 4.65 | 4.83 | 4.91 | 4.97 | 4.98 | 4.97 |
| Coal | 1.61 | 1.72 | 1.71 | 1.73 | 1.72 | 1.72 | 1.70 | 1.68 | 1.67 | 1.66 | 1.65 | 1.65 | 1.64 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.33 | 19.69 | 19.92 | 20.06 | 21.68 | 22.03 | 22.35 | 22.61 | 22.68 | 22.80 |
| Electricity | 22.51 | 29.26 | 25.15 | 22.84 | 22.01 | 21.89 | 21.71 | 21.88 | 22.05 | 22.22 | 22.27 | 22.09 | 21.63 |
| | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | |
| Residential | 17.79 | 21.49 | 18.35 | 18.01 | 18.04 | 18.22 | 18.35 | 18.63 | 19.12 | 19.38 | 19.65 | 19.74 | 19.72 |
| Commercial | 17.89 | 23.09 | 19.65 | 18.79 | 18.87 | 19.34 | 19.69 | 20.29 | 20.99 | 21.65 | 22.26 | 22.70 | 22.88 |
| Industrial | 14.99 | 16.18 | 11.91 | 12.09 | 12.30 | 12.43 | 12.67 | 13.04 | 13.64 | 14.13 | 14.70 | 15.07 | 15.22 |
| Transportation | 48.14 | 44.62 | 41.66 | 44.89 | 44.94 | 45.43 | 46.67 | 49.50 | 51.55 | 53.08 | 54.91 | 55.80 | 57.28 |
| Total Non-Renewable Expenditures | 98.80 | 105.37 | 91.57 | 93.78 | 94.14 | 95.42 | 97.38 | 101.47 | 105.31 | 108.24 | 111.53 | 113.31 | 115.11 |
| Transportation Renewable Expenditures | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total Expenditures | 98.81 | 105.38 | 91.57 | 93.79 | 94.15 | 95.42 | 97.38 | 101.47 | 105.31 | 108.25 | 111.54 | 113.32 | 115.12 |

**Table 19. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Pacific**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 14.76 | 14.90 | 15.01 | 15.08 | 15.07 | 15.04 | 14.99 | 15.01 | 14.95 | 15.06 | 15.18 | 15.42 | 15.64 | -0.7% |
| Primary Energy 1/ | 7.74 | 7.87 | 7.94 | 7.96 | 7.92 | 7.91 | 7.87 | 7.89 | 7.77 | 7.86 | 7.93 | 8.14 | 8.31 | -0.8% |
| Petroleum Products 2/ | 12.25 | 12.46 | 12.68 | 12.72 | 12.81 | 12.81 | 12.89 | 12.86 | 12.85 | 12.59 | 12.82 | 13.11 | 13.06 | 0.0% |
| Distillate Fuel | 8.08 | 8.12 | 8.25 | 8.27 | 8.31 | 8.35 | 8.37 | 8.35 | 8.42 | 8.20 | 8.48 | 8.56 | 8.60 | -0.4% |
| Liquefied Petroleum Gas | 16.93 | 17.36 | 17.70 | 17.79 | 17.97 | 17.92 | 18.07 | 18.06 | 18.00 | 17.68 | 17.86 | 18.36 | 18.21 | 0.3% |
| Natural Gas | 7.47 | 7.60 | 7.67 | 7.70 | 7.66 | 7.65 | 7.61 | 7.64 | 7.51 | 7.62 | 7.69 | 7.90 | 8.08 | -0.8% |
| Electricity | 25.88 | 26.01 | 26.18 | 26.35 | 26.39 | 26.35 | 26.30 | 26.32 | 26.40 | 26.59 | 26.83 | 27.11 | 27.44 | -0.6% |
| Commercial | 17.16 | 17.28 | 17.42 | 17.55 | 17.57 | 17.55 | 17.50 | 17.53 | 17.51 | 17.62 | 17.76 | 18.00 | 18.24 | -0.8% |
| Primary Energy 1/ | 6.71 | 6.83 | 6.90 | 6.93 | 6.89 | 6.90 | 6.87 | 6.91 | 6.81 | 6.89 | 6.97 | 7.17 | 7.33 | 0.0% |
| Petroleum Products 2/ | 7.21 | 7.28 | 7.40 | 7.42 | 7.45 | 7.48 | 7.49 | 7.46 | 7.46 | 7.25 | 7.47 | 7.58 | 7.60 | -0.3% |
| Distillate Fuel | 5.65 | 5.69 | 5.82 | 5.85 | 5.88 | 5.93 | 5.95 | 5.93 | 5.99 | 5.77 | 6.05 | 6.13 | 6.18 | -0.2% |
| Residual Fuel | 3.83 | 3.85 | 3.87 | 3.89 | 3.91 | 3.94 | 3.96 | 3.98 | 4.01 | 4.05 | 4.08 | 4.11 | 4.15 | 0.3% |
| Natural Gas | 6.76 | 6.89 | 6.96 | 6.99 | 6.95 | 6.95 | 6.92 | 6.96 | 6.85 | 6.96 | 7.02 | 7.24 | 7.41 | 0.0% |
| Electricity | 23.79 | 23.84 | 23.96 | 24.10 | 24.11 | 24.04 | 23.94 | 23.93 | 23.94 | 24.03 | 24.17 | 24.38 | 24.60 | -1.2% |
| Industrial 3/ | 6.57 | 6.70 | 6.78 | 6.84 | 6.82 | 6.81 | 6.82 | 6.84 | 6.79 | 6.81 | 6.89 | 7.07 | 7.17 | -0.4% |
| Primary Energy | 5.13 | 5.27 | 5.35 | 5.40 | 5.37 | 5.37 | 5.38 | 5.41 | 5.33 | 5.35 | 5.41 | 5.61 | 5.70 | 0.2% |
| Petroleum Products 2/ | 7.19 | 7.36 | 7.47 | 7.54 | 7.51 | 7.51 | 7.58 | 7.57 | 7.54 | 7.42 | 7.49 | 7.68 | 7.64 | 0.8% |
| Distillate Fuel | 6.03 | 6.07 | 6.20 | 6.23 | 6.26 | 6.31 | 6.33 | 6.31 | 6.37 | 6.15 | 6.43 | 6.52 | 6.56 | -0.2% |
| Liquefied Petroleum Gas | 13.54 | 13.98 | 14.31 | 14.41 | 14.58 | 14.53 | 14.69 | 14.68 | 14.61 | 14.29 | 14.47 | 14.98 | 14.83 | 0.3% |
| Residual Fuel | 3.83 | 3.85 | 3.87 | 3.89 | 3.91 | 3.94 | 3.96 | 3.98 | 4.01 | 4.05 | 4.08 | 4.11 | 4.15 | 0.5% |
| Natural Gas 4/ | 3.92 | 4.06 | 4.13 | 4.18 | 4.15 | 4.16 | 4.14 | 4.20 | 4.10 | 4.21 | 4.28 | 4.50 | 4.69 | -0.3% |
| Metallurgical Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Steam Coal | 1.71 | 1.70 | 1.69 | 1.67 | 1.66 | 1.64 | 1.63 | 1.62 | 1.61 | 1.60 | 1.59 | 1.58 | 1.57 | -0.7% |
| Electricity | 13.43 | 13.46 | 13.51 | 13.57 | 13.56 | 13.51 | 13.46 | 13.45 | 13.46 | 13.52 | 13.61 | 13.71 | 13.82 | -1.6% |
| Transportation | 10.48 | 10.54 | 10.69 | 10.67 | 10.67 | 10.80 | 10.83 | 10.83 | 10.72 | 10.64 | 10.74 | 10.90 | 10.97 | 0.2% |
| Primary Energy | 10.44 | 10.51 | 10.66 | 10.63 | 10.63 | 10.77 | 10.80 | 10.80 | 10.69 | 10.61 | 10.71 | 10.87 | 10.94 | 0.2% |
| Petroleum Products 2/ | 10.45 | 10.51 | 10.66 | 10.64 | 10.64 | 10.77 | 10.80 | 10.80 | 10.70 | 10.62 | 10.71 | 10.87 | 10.94 | 0.2% |
| Distillate Fuel 5/ | 10.86 | 10.76 | 11.39 | 11.36 | 10.88 | 10.83 | 10.85 | 10.91 | 11.01 | 10.88 | 10.93 | 11.01 | 11.00 | 0.0% |
| Jet Fuel 6/ | 5.68 | 5.67 | 5.90 | 5.89 | 5.89 | 5.89 | 5.89 | 5.87 | 5.90 | 5.91 | 5.92 | 5.94 | 5.95 | -0.3% |
| Motor Gasoline 7/ | 12.67 | 12.80 | 12.80 | 12.77 | 12.91 | 13.15 | 13.21 | 13.20 | 12.98 | 12.88 | 13.02 | 13.26 | 13.37 | 0.2% |
| Residual Fuel | 3.75 | 3.77 | 3.79 | 3.81 | 3.83 | 3.86 | 3.88 | 3.90 | 3.93 | 3.97 | 4.00 | 4.03 | 4.07 | 0.8% |
| Liquefied Petroleum Gas 8/ | 15.48 | 15.89 | 16.19 | 16.25 | 16.40 | 16.31 | 16.44 | 16.40 | 16.31 | 15.96 | 16.11 | 16.59 | 16.42 | -0.1% |
| Natural Gas 9/ | 7.47 | 7.66 | 7.78 | 7.83 | 7.83 | 7.85 | 7.83 | 7.91 | 7.80 | 7.93 | 8.01 | 8.27 | 8.47 | -0.2% |
| Ethanol (E85) 10/ | 22.89 | 23.05 | 23.36 | 23.44 | 23.52 | 23.66 | 23.74 | 23.83 | 23.83 | 23.87 | 24.00 | 24.20 | 24.30 | 1.3% |
| Electricity | 21.14 | 21.00 | 20.93 | 20.87 | 20.63 | 20.35 | 20.08 | 19.82 | 19.59 | 19.46 | 19.39 | 19.36 | 19.37 | -1.0% |
| Average End-Use Energy | 10.77 | 10.87 | 11.00 | 11.04 | 11.04 | 11.11 | 11.12 | 11.14 | 11.07 | 11.07 | 11.18 | 11.36 | 11.48 | -0.2% |
| Primary Energy | 8.61 | 8.71 | 8.84 | 8.86 | 8.85 | 8.93 | 8.96 | 8.97 | 8.87 | 8.84 | 8.93 | 9.11 | 9.20 | 0.2% |
| Electricity | 21.52 | 21.58 | 21.70 | 21.83 | 21.84 | 21.78 | 21.70 | 21.71 | 21.73 | 21.83 | 21.98 | 22.16 | 22.37 | -1.1% |
| Electric Generators 11/ | | | | | | | | | | | | | | |
| Fossil Fuel Average | 3.90 | 4.04 | 4.11 | 4.17 | 4.13 | 4.15 | 4.15 | 4.22 | 4.16 | 4.28 | 4.37 | 4.59 | 4.77 | -0.8% |
| Petroleum Products | 5.14 | 5.19 | 5.23 | 5.26 | 5.28 | 5.31 | 5.31 | 5.33 | 5.42 | 5.34 | 5.47 | 5.56 | 5.62 | 0.6% |
| Distillate Fuel | 5.30 | 5.34 | 5.47 | 5.50 | 5.53 | 5.57 | 5.59 | 5.57 | 5.64 | 5.42 | 5.70 | 5.78 | 5.83 | -0.4% |
| Residual Fuel | 5.11 | 5.13 | 5.14 | 5.17 | 5.18 | 5.22 | 5.24 | 5.26 | 5.28 | 5.32 | 5.36 | 5.37 | 5.40 | 1.4% |
| Natural Gas | 4.06 | 4.20 | 4.27 | 4.34 | 4.29 | 4.31 | 4.30 | 4.37 | 4.28 | 4.43 | 4.51 | 4.74 | 4.93 | -1.1% |
| Steam Coal | 1.58 | 1.57 | 1.56 | 1.55 | 1.54 | 1.54 | 1.52 | 1.51 | 1.53 | 1.50 | 1.50 | 1.50 | 1.49 | -0.4% |
| Average Price to All Users 12/ | | | | | | | | | | | | | | |
| Petroleum Products 2/ | 10.02 | 10.08 | 10.23 | 10.23 | 10.23 | 10.34 | 10.39 | 10.38 | 10.27 | 10.21 | 10.29 | 10.43 | 10.48 | 0.3% |

**Table 19. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Pacific**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 10.08 | 9.93 | 10.50 | 10.47 | 10.10 | 10.08 | 10.12 | 10.17 | 10.15 | 10.14 | 10.14 | 10.12 | 10.07 | 0.1% |
| Jet Fuel | 5.68 | 5.67 | 5.90 | 5.89 | 5.89 | 5.89 | 5.89 | 5.87 | 5.90 | 5.91 | 5.92 | 5.94 | 5.95 | -0.3% |
| Liquefied Petroleum Gas | 14.20 | 14.62 | 14.94 | 15.02 | 15.20 | 15.15 | 15.29 | 15.26 | 15.20 | 14.88 | 15.06 | 15.56 | 15.41 | 0.1% |
| Motor Gasoline 7/ | 12.67 | 12.80 | 12.81 | 12.77 | 12.91 | 13.15 | 13.21 | 13.20 | 12.98 | 12.88 | 13.02 | 13.26 | 13.37 | 0.2% |
| Residual Fuel | 4.01 | 4.03 | 4.06 | 4.08 | 4.11 | 4.13 | 4.16 | 4.19 | 4.22 | 4.26 | 4.30 | 4.33 | 4.37 | 1.0% |
| Natural Gas | 4.91 | 5.04 | 5.11 | 5.15 | 5.10 | 5.10 | 5.07 | 5.12 | 5.03 | 5.14 | 5.22 | 5.43 | 5.62 | -0.7% |
| Coal | 1.63 | 1.62 | 1.62 | 1.60 | 1.59 | 1.58 | 1.57 | 1.56 | 1.57 | 1.55 | 1.54 | 1.54 | 1.53 | -0.5% |
| Ethanol (E85) 10/ | 22.89 | 23.05 | 23.36 | 23.44 | 23.52 | 23.66 | 23.74 | 23.83 | 23.83 | 23.87 | 24.00 | 24.20 | 24.30 | 1.3% |
| Electricity | 21.52 | 21.58 | 21.70 | 21.83 | 21.84 | 21.78 | 21.70 | 21.71 | 21.73 | 21.83 | 21.98 | 22.16 | 22.37 | -1.1% |
| | | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | | |
| Residential | 19.77 | 20.10 | 20.38 | 20.66 | 20.74 | 20.88 | 21.00 | 21.27 | 21.33 | 21.68 | 22.04 | 22.60 | 23.02 | 0.3% |
| Commercial | 23.40 | 24.17 | 24.96 | 25.77 | 26.47 | 27.15 | 27.82 | 28.62 | 29.37 | 30.32 | 31.34 | 32.51 | 33.71 | 1.6% |
| Industrial | 15.41 | 15.97 | 16.37 | 16.69 | 16.87 | 17.12 | 17.41 | 17.77 | 17.90 | 18.39 | 18.92 | 19.82 | 20.51 | 1.0% |
| Transportation | 58.50 | 60.14 | 62.23 | 63.28 | 64.47 | 66.51 | 68.02 | 69.16 | 69.62 | 70.31 | 72.25 | 74.71 | 76.54 | 2.3% |
| Total Non-Renewable Expenditures | 117.08 | 120.38 | 123.94 | 126.41 | 128.55 | 131.66 | 134.25 | 136.83 | 138.23 | 140.70 | 144.55 | 149.65 | 153.78 | 1.6% |
| Transportation Renewable Expenditures | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 10.6% |
| Total Expenditures | 117.09 | 120.39 | 123.96 | 126.42 | 128.56 | 131.67 | 134.27 | 136.84 | 138.25 | 140.72 | 144.57 | 149.67 | 153.81 | 1.6% |

**Table 19. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**Pacific**

1/ Weighted average price includes fuels below as well as coal.
2/ This quantity is the weighted average for all petroleum products, not just those listed below.
3/ Includes combined heat and power.
4/ Excludes uses for lease and plant fuel.
5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
8/ Includes Federal and State taxes while excluding county and local taxes.
9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
11/ Includes combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
Note: Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports.
Sources: 2000 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2000, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2001). 2001 prices for motor gasoline, distillate, and jet fuel are based on the Petroleum Marketing Annual 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (Setember 2002). 2000 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002). 2000 and 2001 electric power prices: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2000 and 2001 industrial gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2000 and 2001 coal prices based on EIA, Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. 2000 and 2001 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 20. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**United States**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 14.58 | 15.80 | 14.15 | 13.99 | 13.83 | 13.74 | 13.54 | 13.55 | 13.59 | 13.75 | 13.84 | 13.97 | 14.02 |
| Primary Energy 1/ | 8.50 | 9.73 | 7.84 | 8.18 | 7.97 | 7.82 | 7.72 | 7.74 | 7.81 | 7.86 | 7.96 | 8.01 | 8.05 |
| Petroleum Products 2/ | 11.12 | 10.85 | 9.77 | 10.35 | 10.14 | 9.74 | 9.58 | 9.66 | 9.71 | 9.76 | 9.90 | 10.00 | 10.06 |
| Distillate Fuel | 9.67 | 8.99 | 8.14 | 9.08 | 8.43 | 7.88 | 7.81 | 7.81 | 7.85 | 7.89 | 7.96 | 8.05 | 8.11 |
| Liquefied Petroleum Gas | 13.85 | 14.84 | 12.73 | 13.16 | 13.79 | 13.70 | 13.37 | 13.62 | 13.68 | 13.74 | 14.01 | 14.09 | 14.12 |
| Natural Gas | 7.75 | 9.41 | 7.29 | 7.58 | 7.39 | 7.31 | 7.23 | 7.25 | 7.32 | 7.38 | 7.48 | 7.52 | 7.56 |
| Electricity | 24.49 | 25.35 | 23.96 | 23.10 | 22.96 | 22.83 | 22.43 | 22.28 | 22.17 | 22.38 | 22.34 | 22.51 | 22.49 |
| Commercial | 14.14 | 15.47 | 14.13 | 13.56 | 13.29 | 13.16 | 12.92 | 12.92 | 13.02 | 13.24 | 13.35 | 13.49 | 13.57 |
| Primary Energy 1/ | 6.74 | 7.81 | 6.11 | 6.28 | 6.06 | 6.00 | 5.95 | 6.01 | 6.12 | 6.21 | 6.34 | 6.40 | 6.46 |
| Petroleum Products 2/ | 7.82 | 7.27 | 7.10 | 7.42 | 6.83 | 6.67 | 6.57 | 6.61 | 6.67 | 6.70 | 6.78 | 6.87 | 6.91 |
| Distillate Fuel | 7.27 | 6.40 | 6.08 | 6.51 | 5.75 | 5.57 | 5.50 | 5.51 | 5.55 | 5.59 | 5.66 | 5.76 | 5.82 |
| Residual Fuel | 3.53 | 3.46 | 4.15 | 4.41 | 4.01 | 3.91 | 3.93 | 3.95 | 3.97 | 3.98 | 4.01 | 4.03 | 4.06 |
| Natural Gas | 6.64 | 8.09 | 6.04 | 6.19 | 6.03 | 5.99 | 5.95 | 6.02 | 6.14 | 6.24 | 6.38 | 6.44 | 6.50 |
| Electricity | 21.86 | 23.22 | 21.90 | 20.73 | 20.39 | 20.12 | 19.63 | 19.48 | 19.48 | 19.72 | 19.73 | 19.85 | 19.86 |
| Industrial 3/ | 7.08 | 7.10 | 5.74 | 6.07 | 6.05 | 5.97 | 5.89 | 5.97 | 6.07 | 6.16 | 6.26 | 6.34 | 6.40 |
| Primary Energy | 5.91 | 5.83 | 4.55 | 4.90 | 4.86 | 4.77 | 4.70 | 4.78 | 4.86 | 4.93 | 5.07 | 5.15 | 5.22 |
| Petroleum Products 2/ | 8.21 | 7.72 | 6.27 | 6.76 | 6.79 | 6.66 | 6.58 | 6.67 | 6.73 | 6.78 | 6.94 | 7.04 | 7.10 |
| Distillate Fuel | 7.38 | 6.55 | 6.14 | 6.57 | 5.79 | 5.62 | 5.55 | 5.56 | 5.62 | 5.66 | 5.73 | 5.87 | 5.92 |
| Liquefied Petroleum Gas | 12.03 | 12.34 | 8.20 | 8.62 | 9.41 | 9.33 | 8.99 | 9.23 | 9.28 | 9.32 | 9.59 | 9.66 | 9.70 |
| Residual Fuel | 3.34 | 3.28 | 3.85 | 4.14 | 3.72 | 3.60 | 3.62 | 3.64 | 3.67 | 3.69 | 3.71 | 3.73 | 3.75 |
| Natural Gas 4/ | 4.62 | 4.87 | 3.40 | 3.72 | 3.58 | 3.52 | 3.46 | 3.53 | 3.64 | 3.75 | 3.89 | 3.96 | 4.05 |
| Metallurgical Coal | 1.66 | 1.69 | 1.62 | 1.61 | 1.59 | 1.57 | 1.57 | 1.55 | 1.53 | 1.52 | 1.51 | 1.49 | 1.48 |
| Steam Coal | 1.43 | 1.46 | 1.48 | 1.47 | 1.45 | 1.44 | 1.43 | 1.42 | 1.41 | 1.39 | 1.38 | 1.37 | 1.36 |
| Electricity | 13.46 | 14.10 | 12.99 | 12.88 | 12.82 | 12.75 | 12.55 | 12.56 | 12.63 | 12.75 | 12.64 | 12.62 | 12.61 |
| Transportation | 11.11 | 10.28 | 9.73 | 10.33 | 10.06 | 9.93 | 10.01 | 10.15 | 10.15 | 10.24 | 10.28 | 10.25 | 10.22 |
| Primary Energy | 11.08 | 10.25 | 9.70 | 10.30 | 10.03 | 9.90 | 9.99 | 10.13 | 10.12 | 10.21 | 10.25 | 10.23 | 10.19 |
| Petroleum Products 2/ | 11.08 | 10.25 | 9.70 | 10.30 | 10.03 | 9.91 | 9.99 | 10.13 | 10.13 | 10.22 | 10.26 | 10.23 | 10.20 |
| Distillate Fuel 5/ | 10.99 | 10.05 | 9.31 | 9.95 | 9.60 | 9.36 | 9.56 | 10.07 | 9.98 | 10.11 | 10.22 | 10.32 | 10.20 |
| Jet Fuel 6/ | 7.26 | 6.20 | 5.90 | 6.33 | 5.81 | 5.61 | 5.49 | 5.56 | 5.58 | 5.61 | 5.62 | 5.76 | 5.78 |
| Motor Gasoline 7/ | 12.42 | 11.57 | 10.96 | 11.58 | 11.38 | 11.30 | 11.38 | 11.41 | 11.42 | 11.50 | 11.53 | 11.42 | 11.39 |
| Residual Fuel | 4.48 | 3.90 | 3.73 | 4.01 | 3.58 | 3.45 | 3.48 | 3.49 | 3.51 | 3.53 | 3.55 | 3.58 | 3.60 |
| Liquefied Petroleum Gas 8/ | 16.45 | 16.93 | 14.83 | 15.25 | 15.02 | 14.89 | 14.62 | 14.79 | 14.88 | 14.92 | 15.21 | 15.32 | 15.25 |
| Natural Gas 9/ | 6.76 | 7.65 | 6.01 | 6.36 | 6.17 | 6.12 | 6.21 | 6.42 | 6.67 | 6.88 | 7.08 | 7.21 | 7.33 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.13 | 19.36 | 19.50 | 19.84 | 21.01 | 21.23 | 21.53 | 21.32 | 21.32 | 22.17 |
| Electricity | 22.07 | 21.84 | 20.81 | 20.09 | 19.99 | 19.72 | 19.24 | 19.03 | 18.97 | 19.02 | 18.99 | 18.97 | 18.90 |
| Average End-Use Energy | 10.63 | 10.74 | 9.65 | 9.92 | 9.76 | 9.67 | 9.62 | 9.70 | 9.74 | 9.85 | 9.92 | 9.97 | 9.99 |
| Primary Energy | 8.65 | 8.52 | 7.47 | 7.93 | 7.76 | 7.67 | 7.69 | 7.80 | 7.86 | 7.95 | 8.05 | 8.08 | 8.10 |
| Electricity | 20.17 | 21.30 | 20.21 | 19.41 | 19.22 | 19.06 | 18.68 | 18.55 | 18.52 | 18.70 | 18.65 | 18.73 | 18.71 |
| Electric Generators 11/ | | | | | | | | | | | | | |
| Fossil Fuel Average | 2.01 | 2.14 | 1.66 | 1.74 | 1.71 | 1.71 | 1.68 | 1.68 | 1.74 | 1.77 | 1.82 | 1.85 | 1.89 |
| Petroleum Products | 4.62 | 4.73 | 4.28 | 4.74 | 4.26 | 4.13 | 4.14 | 4.15 | 4.14 | 4.23 | 4.27 | 4.36 | 4.33 |
| Distillate Fuel | 6.73 | 6.20 | 5.60 | 6.04 | 5.20 | 5.01 | 4.95 | 4.96 | 5.00 | 5.04 | 5.13 | 5.23 | 5.29 |
| Residual Fuel | 4.39 | 4.50 | 4.01 | 4.35 | 3.99 | 3.85 | 3.89 | 3.90 | 3.88 | 3.96 | 3.97 | 4.01 | 4.01 |
| Natural Gas | 4.42 | 4.78 | 3.07 | 3.42 | 3.29 | 3.27 | 3.24 | 3.32 | 3.48 | 3.62 | 3.79 | 3.88 | 3.98 |
| Steam Coal | 1.23 | 1.25 | 1.22 | 1.22 | 1.22 | 1.22 | 1.21 | 1.20 | 1.19 | 1.18 | 1.17 | 1.17 | 1.16 |
| Average Price to All Users 12/ | | | | | | | | | | | | | |
| Petroleum Products 2/ | 10.23 | 9.54 | 8.87 | 9.46 | 9.26 | 9.13 | 9.17 | 9.31 | 9.32 | 9.41 | 9.48 | 9.50 | 9.48 |

**Table 20. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**United States**

| Sector and Source | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 10.05 | 9.16 | 8.53 | 9.17 | 8.72 | 8.47 | 8.60 | 8.98 | 8.94 | 9.06 | 9.17 | 9.29 | 9.23 |
| Jet Fuel | 7.26 | 6.20 | 5.90 | 6.33 | 5.81 | 5.61 | 5.49 | 5.56 | 5.58 | 5.61 | 5.62 | 5.76 | 5.78 |
| Liquefied Petroleum Gas | 12.38 | 12.85 | 9.18 | 9.55 | 10.29 | 10.20 | 9.86 | 10.09 | 10.14 | 10.17 | 10.42 | 10.48 | 10.49 |
| Motor Gasoline 7/ | 12.42 | 11.57 | 10.96 | 11.58 | 11.38 | 11.29 | 11.38 | 11.41 | 11.42 | 11.50 | 11.53 | 11.42 | 11.39 |
| Residual Fuel | 4.28 | 4.11 | 3.83 | 4.10 | 3.70 | 3.57 | 3.59 | 3.61 | 3.63 | 3.66 | 3.68 | 3.71 | 3.73 |
| Natural Gas | 5.59 | 6.40 | 4.61 | 4.93 | 4.78 | 4.74 | 4.67 | 4.74 | 4.82 | 4.91 | 5.03 | 5.08 | 5.15 |
| Coal | 1.24 | 1.26 | 1.24 | 1.24 | 1.23 | 1.24 | 1.23 | 1.21 | 1.20 | 1.19 | 1.18 | 1.18 | 1.17 |
| Ethanol (E85) 10/ | 17.72 | 17.72 | 17.72 | 20.13 | 19.36 | 19.50 | 19.84 | 21.01 | 21.23 | 21.53 | 21.32 | 21.32 | 22.17 |
| Electricity | 20.17 | 21.30 | 20.21 | 19.41 | 19.22 | 19.06 | 18.68 | 18.55 | 18.52 | 18.70 | 18.65 | 18.73 | 18.71 |
| | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | |
| Residential | 155.98 | 166.69 | 151.96 | 156.86 | 157.69 | 157.91 | 157.67 | 159.33 | 161.78 | 164.59 | 166.98 | 169.78 | 172.09 |
| Commercial | 114.28 | 127.06 | 116.72 | 114.57 | 115.35 | 116.43 | 116.50 | 118.42 | 121.15 | 124.99 | 127.99 | 131.40 | 134.28 |
| Industrial | 143.44 | 135.20 | 111.63 | 119.21 | 119.88 | 118.73 | 118.40 | 122.00 | 125.74 | 130.11 | 135.28 | 139.71 | 143.49 |
| Transportation | 290.84 | 270.40 | 258.62 | 279.94 | 277.92 | 280.74 | 290.64 | 302.84 | 311.14 | 322.56 | 332.93 | 340.62 | 347.34 |
| Total Non-Renewable Expenditures | 704.53 | 699.35 | 638.94 | 670.58 | 670.83 | 673.81 | 683.21 | 702.59 | 719.81 | 742.25 | 763.18 | 781.52 | 797.19 |
| Transportation Renewable Expenditures | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.06 |
| Total Expenditures | 704.54 | 699.36 | 638.95 | 670.60 | 670.86 | 673.84 | 683.24 | 702.63 | 719.85 | 742.29 | 763.22 | 781.57 | 797.25 |

**Table 20. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**United States**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 14.12 | 14.21 | 14.25 | 14.33 | 14.33 | 14.37 | 14.39 | 14.53 | 14.51 | 14.64 | 14.67 | 14.83 | 14.82 | -0.3% |
| Primary Energy 1/ | 8.08 | 8.15 | 8.18 | 8.21 | 8.20 | 8.18 | 8.19 | 8.27 | 8.25 | 8.29 | 8.36 | 8.44 | 8.50 | -0.6% |
| Petroleum Products 2/ | 10.15 | 10.29 | 10.32 | 10.38 | 10.39 | 10.49 | 10.63 | 10.70 | 10.77 | 10.83 | 10.89 | 10.95 | 11.01 | 0.1% |
| Distillate Fuel | 8.21 | 8.37 | 8.36 | 8.40 | 8.40 | 8.50 | 8.66 | 8.72 | 8.78 | 8.82 | 8.86 | 8.89 | 8.93 | 0.0% |
| Liquefied Petroleum Gas | 14.18 | 14.25 | 14.31 | 14.36 | 14.38 | 14.42 | 14.47 | 14.52 | 14.58 | 14.63 | 14.70 | 14.78 | 14.84 | 0.0% |
| Natural Gas | 7.59 | 7.65 | 7.68 | 7.71 | 7.70 | 7.66 | 7.66 | 7.74 | 7.71 | 7.75 | 7.83 | 7.92 | 7.99 | -0.7% |
| Electricity | 22.62 | 22.66 | 22.66 | 22.76 | 22.70 | 22.77 | 22.74 | 22.93 | 22.87 | 23.07 | 23.02 | 23.22 | 23.07 | -0.4% |
| Commercial | 13.70 | 13.85 | 13.96 | 14.13 | 14.17 | 14.28 | 14.34 | 14.55 | 14.55 | 14.73 | 14.78 | 14.98 | 15.00 | -0.1% |
| Primary Energy 1/ | 6.50 | 6.58 | 6.61 | 6.64 | 6.64 | 6.63 | 6.65 | 6.74 | 6.73 | 6.78 | 6.86 | 6.94 | 7.01 | -0.4% |
| Petroleum Products 2/ | 7.00 | 7.13 | 7.15 | 7.19 | 7.23 | 7.32 | 7.45 | 7.50 | 7.56 | 7.60 | 7.67 | 7.72 | 7.78 | 0.3% |
| Distillate Fuel | 5.92 | 6.08 | 6.09 | 6.13 | 6.17 | 6.28 | 6.44 | 6.49 | 6.56 | 6.60 | 6.67 | 6.71 | 6.75 | 0.2% |
| Residual Fuel | 4.08 | 4.10 | 4.12 | 4.14 | 4.16 | 4.18 | 4.21 | 4.23 | 4.26 | 4.29 | 4.32 | 4.35 | 4.38 | 1.0% |
| Natural Gas | 6.54 | 6.61 | 6.64 | 6.68 | 6.67 | 6.64 | 6.65 | 6.75 | 6.73 | 6.78 | 6.86 | 6.95 | 7.02 | -0.6% |
| Electricity | 19.99 | 20.14 | 20.25 | 20.48 | 20.49 | 20.67 | 20.69 | 20.96 | 20.90 | 21.14 | 21.11 | 21.35 | 21.26 | -0.4% |
| Industrial 3/ | 6.50 | 6.59 | 6.63 | 6.70 | 6.72 | 6.75 | 6.80 | 6.88 | 6.90 | 6.99 | 7.03 | 7.13 | 7.15 | 0.0% |
| Primary Energy | 5.32 | 5.40 | 5.44 | 5.48 | 5.51 | 5.53 | 5.58 | 5.62 | 5.65 | 5.71 | 5.77 | 5.83 | 5.88 | 0.0% |
| Petroleum Products 2/ | 7.25 | 7.36 | 7.42 | 7.46 | 7.51 | 7.57 | 7.66 | 7.63 | 7.70 | 7.76 | 7.82 | 7.88 | 7.94 | 0.1% |
| Distillate Fuel | 6.06 | 6.24 | 6.28 | 6.34 | 6.47 | 6.59 | 6.75 | 6.80 | 6.93 | 7.02 | 7.13 | 7.18 | 7.25 | 0.4% |
| Liquefied Petroleum Gas | 9.78 | 9.85 | 9.91 | 9.95 | 9.99 | 10.03 | 10.08 | 10.12 | 10.17 | 10.22 | 10.28 | 10.35 | 10.40 | -0.7% |
| Residual Fuel | 3.78 | 3.80 | 3.82 | 3.85 | 3.87 | 3.89 | 3.91 | 3.94 | 3.97 | 4.00 | 4.03 | 4.07 | 4.10 | 0.9% |
| Natural Gas 4/ | 4.10 | 4.15 | 4.18 | 4.22 | 4.22 | 4.19 | 4.21 | 4.32 | 4.33 | 4.39 | 4.46 | 4.52 | 4.57 | -0.3% |
| Metallurgical Coal | 1.48 | 1.47 | 1.46 | 1.45 | 1.43 | 1.43 | 1.41 | 1.41 | 1.38 | 1.38 | 1.37 | 1.36 | 1.35 | -0.9% |
| Steam Coal | 1.36 | 1.35 | 1.35 | 1.34 | 1.33 | 1.33 | 1.32 | 1.31 | 1.30 | 1.30 | 1.29 | 1.29 | 1.29 | -0.5% |
| Electricity | 12.68 | 12.76 | 12.78 | 12.94 | 12.90 | 13.01 | 13.00 | 13.25 | 13.20 | 13.43 | 13.37 | 13.62 | 13.46 | -0.2% |
| Transportation | 10.16 | 10.18 | 10.19 | 10.22 | 10.34 | 10.39 | 10.41 | 10.39 | 10.43 | 10.48 | 10.58 | 10.63 | 10.81 | 0.2% |
| Primary Energy | 10.14 | 10.15 | 10.16 | 10.19 | 10.32 | 10.37 | 10.38 | 10.37 | 10.40 | 10.46 | 10.55 | 10.61 | 10.79 | 0.2% |
| Petroleum Products 2/ | 10.14 | 10.16 | 10.17 | 10.19 | 10.32 | 10.37 | 10.39 | 10.37 | 10.41 | 10.46 | 10.56 | 10.61 | 10.80 | 0.2% |
| Distillate Fuel 5/ | 10.08 | 10.02 | 10.09 | 10.11 | 10.16 | 10.22 | 10.20 | 10.16 | 10.29 | 10.39 | 10.45 | 10.46 | 10.52 | 0.2% |
| Jet Fuel 6/ | 5.87 | 5.96 | 6.03 | 6.05 | 6.15 | 6.24 | 6.32 | 6.33 | 6.45 | 6.57 | 6.64 | 6.66 | 6.72 | 0.3% |
| Motor Gasoline 7/ | 11.33 | 11.35 | 11.34 | 11.37 | 11.54 | 11.59 | 11.60 | 11.60 | 11.59 | 11.62 | 11.74 | 11.81 | 12.08 | 0.2% |
| Residual Fuel | 3.62 | 3.64 | 3.66 | 3.68 | 3.70 | 3.73 | 3.75 | 3.77 | 3.80 | 3.84 | 3.87 | 3.90 | 3.94 | 0.0% |
| Liquefied Petroleum Gas 8/ | 15.32 | 15.40 | 15.46 | 15.48 | 15.47 | 15.47 | 15.50 | 15.50 | 15.51 | 15.48 | 15.53 | 15.63 | 15.63 | -0.3% |
| Natural Gas 9/ | 7.41 | 7.51 | 7.57 | 7.62 | 7.62 | 7.61 | 7.63 | 7.75 | 7.74 | 7.80 | 7.88 | 7.99 | 8.07 | 0.2% |
| Ethanol (E85) 10/ | 22.21 | 22.30 | 22.43 | 22.52 | 22.65 | 22.72 | 22.78 | 22.87 | 22.91 | 23.00 | 23.13 | 23.36 | 23.44 | 1.2% |
| Electricity | 18.88 | 18.84 | 18.75 | 18.78 | 18.58 | 18.51 | 18.37 | 18.37 | 18.13 | 18.13 | 17.96 | 18.01 | 17.82 | -0.8% |
| Average End-Use Energy | 10.03 | 10.09 | 10.13 | 10.20 | 10.27 | 10.32 | 10.35 | 10.42 | 10.44 | 10.53 | 10.59 | 10.69 | 10.78 | 0.0% |
| Primary Energy | 8.13 | 8.18 | 8.22 | 8.26 | 8.34 | 8.38 | 8.41 | 8.43 | 8.46 | 8.52 | 8.61 | 8.67 | 8.80 | 0.1% |
| Electricity | 18.81 | 18.90 | 18.95 | 19.12 | 19.09 | 19.22 | 19.21 | 19.45 | 19.39 | 19.61 | 19.56 | 19.79 | 19.66 | -0.3% |
| Electric Generators 11/ | | | | | | | | | | | | | | |
| Fossil Fuel Average | 1.92 | 1.94 | 1.94 | 1.97 | 1.96 | 1.97 | 1.98 | 2.02 | 2.04 | 2.07 | 2.09 | 2.13 | 2.14 | 0.0% |
| Petroleum Products | 4.33 | 4.41 | 4.43 | 4.45 | 4.49 | 4.53 | 4.57 | 4.60 | 4.72 | 4.70 | 4.82 | 4.90 | 4.98 | 0.2% |
| Distillate Fuel | 5.42 | 5.54 | 5.60 | 5.64 | 5.74 | 5.86 | 6.02 | 6.06 | 6.04 | 6.23 | 6.22 | 6.16 | 6.18 | 0.0% |
| Residual Fuel | 4.03 | 4.04 | 4.07 | 4.08 | 4.11 | 4.14 | 4.17 | 4.21 | 4.25 | 4.29 | 4.34 | 4.36 | 4.40 | -0.1% |
| Natural Gas | 4.04 | 4.11 | 4.14 | 4.18 | 4.17 | 4.16 | 4.18 | 4.30 | 4.30 | 4.38 | 4.45 | 4.54 | 4.60 | -0.2% |
| Steam Coal | 1.16 | 1.15 | 1.15 | 1.14 | 1.14 | 1.13 | 1.13 | 1.12 | 1.11 | 1.11 | 1.11 | 1.11 | 1.10 | -0.5% |
| Average Price to All Users 12/ | | | | | | | | | | | | | | |
| Petroleum Products 2/ | 9.49 | 9.53 | 9.56 | 9.59 | 9.70 | 9.76 | 9.80 | 9.78 | 9.83 | 9.89 | 9.98 | 10.03 | 10.18 | 0.3% |

**Table 20. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**United States**

| Sector and Source | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate Fuel | 9.19 | 9.20 | 9.26 | 9.29 | 9.36 | 9.44 | 9.48 | 9.46 | 9.58 | 9.69 | 9.76 | 9.78 | 9.83 | 0.3% |
| Jet Fuel | 5.87 | 5.96 | 6.03 | 6.05 | 6.15 | 6.24 | 6.32 | 6.33 | 6.45 | 6.57 | 6.64 | 6.66 | 6.72 | 0.3% |
| Liquefied Petroleum Gas | 10.56 | 10.62 | 10.67 | 10.72 | 10.74 | 10.77 | 10.82 | 10.85 | 10.90 | 10.93 | 10.99 | 11.07 | 11.11 | -0.6% |
| Motor Gasoline 7/ | 11.33 | 11.35 | 11.34 | 11.37 | 11.54 | 11.59 | 11.60 | 11.60 | 11.59 | 11.62 | 11.74 | 11.81 | 12.08 | 0.2% |
| Residual Fuel | 3.75 | 3.78 | 3.80 | 3.82 | 3.84 | 3.87 | 3.89 | 3.92 | 3.95 | 3.98 | 4.02 | 4.05 | 4.08 | 0.0% |
| Natural Gas | 5.19 | 5.24 | 5.26 | 5.30 | 5.29 | 5.25 | 5.25 | 5.35 | 5.34 | 5.39 | 5.46 | 5.53 | 5.60 | -0.6% |
| Coal | 1.17 | 1.17 | 1.16 | 1.16 | 1.15 | 1.15 | 1.14 | 1.13 | 1.13 | 1.12 | 1.12 | 1.12 | 1.12 | -0.5% |
| Ethanol (E85) 10/ | 22.21 | 22.30 | 22.43 | 22.52 | 22.65 | 22.72 | 22.78 | 22.87 | 22.91 | 23.00 | 23.13 | 23.36 | 23.44 | 1.2% |
| Electricity | 18.81 | 18.90 | 18.95 | 19.12 | 19.09 | 19.22 | 19.21 | 19.45 | 19.39 | 19.61 | 19.56 | 19.79 | 19.66 | -0.3% |
| | | | | | | | | | | | | | | |
| Non-Renewable Energy Expenditures by Sector (billion 2001 dollars) | | | | | | | | | | | | | | |
| Residential | 174.12 | 176.55 | 178.50 | 181.40 | 182.29 | 184.42 | 186.39 | 190.35 | 191.32 | 194.74 | 197.12 | 201.60 | 202.99 | 0.8% |
| Commercial | 137.77 | 141.54 | 144.89 | 149.01 | 151.88 | 155.76 | 159.07 | 164.11 | 166.81 | 171.64 | 174.89 | 179.95 | 182.88 | 1.5% |
| Industrial | 147.40 | 151.21 | 153.72 | 156.53 | 158.73 | 161.65 | 165.05 | 169.19 | 171.86 | 176.72 | 180.26 | 185.55 | 188.45 | 1.4% |
| Transportation | 353.17 | 360.82 | 367.91 | 375.18 | 386.39 | 394.97 | 402.66 | 408.34 | 415.83 | 424.83 | 436.01 | 446.18 | 461.42 | 2.3% |
| Total Non-Renewable Expenditures | 812.46 | 830.13 | 845.02 | 862.12 | 879.29 | 896.79 | 913.17 | 932.00 | 945.82 | 967.94 | 988.28 | 1013.29 | 1035.75 | 1.6% |
| Transportation Renewable Expenditures | 0.06 | 0.07 | 0.07 | 0.08 | 0.08 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 | 0.13 | 10.2% |
| Total Expenditures | 812.52 | 830.19 | 845.09 | 862.19 | 879.38 | 896.88 | 913.27 | 932.10 | 945.93 | 968.04 | 988.40 | 1013.41 | 1035.88 | 1.7% |

**Table 20. Energy Prices by Sector and Source**
**(2001 Dollars per Million Btu, Unless Otherwise Noted)**
**United States**

1/ Weighted average price includes fuels below as well as coal.
2/ This quantity is the weighted average for all petroleum products, not just those listed below.
3/ Includes combined heat and power.
4/ Excludes uses for lease and plant fuel.
5/ Diesel fuel containing 500 parts per million (ppm) or 15 ppm sulfur. Price includes Federal and State taxes while excluding county and local taxes.
6/ Kerosene-type jet fuel. Price includes Federal and State taxes while excluding county and local taxes.
7/ Sales weighted-average price for all grades. Includes Federal, State, and local taxes.
8/ Includes Federal and State taxes while excluding county and local taxes.
9/ Compressed natural gas used as a vehicle fuel. Price includes estimated motor vehicle fuel taxes.
10/ E85 is 85 percent ethanol (renewable) and 15 percent motor gasoline (nonrenewable).
11/ Includes combined heat and power plants whose primary business is to sell electricity, or electricity and heat, to the public.
12/ Weighted averages of end-use fuel prices are derived from the prices shown in each sector and the corresponding sectoral consumption.
Btu = British thermal unit.
Note: Data for 2000 and 2001 are model results and may differ slightly from official EIA data reports.
Sources: 2000 prices for motor gasoline, distillate, and jet fuel are based on prices in the Energy Information Administration (EIA), Petroleum Marketing Annual 2000, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2001). 2001 prices for motor gasoline, distillate, and jet fuel are based on the Petroleum Marketing Annual 2001, http://www.eia.doe.gov/pub/oil_gas/petroleum/data_publications/petroleum_marketing_annual/current/pdf/pmaall.pdf (Setember 2002). 2000 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001). 2001 residential, commercial, and transportation natural gas delivered prices: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002). 2000 and 2001 electric power prices: Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 2000 and 2001 industrial gas delivered prices are based on: EIA, Manufacturing Energy Consumption Survey 1998. 2000 and 2001 coal prices based on EIA, Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. 2000 and 2001 electricity prices: Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 21. Residential Sector Equipment Stock and Efficiency**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment Stock (million units) | | | | | | | | | | | | | |
| Main Space Heaters | | | | | | | | | | | | | |
| Electric Heat Pumps | 10.12 | 10.33 | 10.54 | 10.73 | 10.94 | 11.15 | 11.32 | 11.50 | 11.69 | 11.89 | 12.09 | 12.29 | 12.47 |
| Electric Other | 20.33 | 20.50 | 20.66 | 20.83 | 21.03 | 21.25 | 21.50 | 21.76 | 22.04 | 22.32 | 22.61 | 22.90 | 23.18 |
| Natural Gas Heat Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas Other | 55.72 | 56.43 | 57.18 | 57.89 | 58.61 | 59.33 | 60.08 | 60.87 | 61.68 | 62.49 | 63.35 | 64.23 | 65.04 |
| Distillate | 9.38 | 9.36 | 9.34 | 9.31 | 9.29 | 9.26 | 9.24 | 9.22 | 9.20 | 9.19 | 9.17 | 9.15 | 9.13 |
| Liquefied Petroleum Gas | 4.69 | 4.69 | 4.70 | 4.71 | 4.71 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.69 | 4.69 | 4.69 |
| Kerosene | 0.93 | 0.92 | 0.91 | 0.90 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 |
| Wood Stoves | 2.14 | 2.13 | 2.11 | 2.10 | 2.09 | 2.07 | 2.06 | 2.04 | 2.03 | 2.02 | 2.00 | 1.99 | 1.98 |
| Geothermal Heat Pumps | 0.38 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 | 0.46 | 0.48 | 0.49 | 0.51 | 0.53 |
| Total | 103.70 | 104.75 | 105.84 | 106.87 | 107.97 | 109.07 | 110.20 | 111.40 | 112.65 | 113.90 | 115.23 | 116.58 | 117.82 |
| Space Cooling (million units) | | | | | | | | | | | | | |
| Electric Heat Pumps | 10.12 | 10.33 | 10.54 | 10.73 | 10.94 | 11.15 | 11.32 | 11.50 | 11.69 | 11.89 | 12.09 | 12.29 | 12.47 |
| Natural Gas Heat Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal Heat Pumps | 0.38 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 | 0.46 | 0.48 | 0.49 | 0.51 | 0.53 |
| Central Air Conditioners | 40.67 | 41.69 | 42.74 | 43.76 | 44.81 | 45.87 | 46.98 | 48.11 | 49.27 | 50.42 | 51.60 | 52.79 | 53.90 |
| Room Air Conditioners | 37.93 | 37.90 | 37.87 | 37.84 | 37.84 | 37.84 | 37.85 | 37.88 | 37.91 | 37.96 | 38.02 | 38.09 | 38.15 |
| Total | 89.10 | 90.31 | 91.55 | 92.74 | 94.01 | 95.29 | 96.59 | 97.94 | 99.34 | 100.74 | 102.20 | 103.68 | 105.05 |
| Water Heaters (million units) | | | | | | | | | | | | | |
| Electric | 40.37 | 40.60 | 40.80 | 41.01 | 41.26 | 41.53 | 41.79 | 42.08 | 42.41 | 42.74 | 43.10 | 43.46 | 43.79 |
| Natural Gas | 55.37 | 56.22 | 57.14 | 58.01 | 58.90 | 59.78 | 60.70 | 61.64 | 62.60 | 63.55 | 64.56 | 65.58 | 66.53 |
| Distillate | 5.02 | 4.98 | 4.94 | 4.89 | 4.85 | 4.81 | 4.76 | 4.72 | 4.69 | 4.65 | 4.61 | 4.58 | 4.54 |
| Liquefied Petroleum Gas | 3.18 | 3.17 | 3.16 | 3.15 | 3.13 | 3.11 | 3.10 | 3.08 | 3.07 | 3.06 | 3.05 | 3.04 | 3.03 |
| Solar Thermal | 0.35 | 0.36 | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 0.40 | 0.41 | 0.42 | 0.43 | 0.43 | 0.44 |
| Total | 104.27 | 105.32 | 106.40 | 107.43 | 108.52 | 109.61 | 110.74 | 111.93 | 113.17 | 114.42 | 115.74 | 117.08 | 118.32 |
| Cooking Equipment (million units) 1/ | | | | | | | | | | | | | |
| Electric | 63.33 | 64.05 | 64.79 | 65.47 | 66.21 | 66.94 | 67.69 | 68.49 | 69.34 | 70.19 | 71.09 | 72.00 | 72.82 |
| Natural Gas | 36.24 | 36.57 | 36.93 | 37.29 | 37.67 | 38.05 | 38.45 | 38.86 | 39.27 | 39.69 | 40.13 | 40.59 | 41.03 |
| Liquefied Petroleum Gas | 4.35 | 4.34 | 4.33 | 4.32 | 4.30 | 4.27 | 4.25 | 4.23 | 4.21 | 4.20 | 4.18 | 4.16 | 4.13 |
| Total | 103.92 | 104.96 | 106.05 | 107.08 | 108.17 | 109.27 | 110.39 | 111.58 | 112.83 | 114.07 | 115.40 | 116.74 | 117.98 |
| Clothes Dryers (million units) | | | | | | | | | | | | | |
| Electric | 57.54 | 58.59 | 59.65 | 60.69 | 61.76 | 62.83 | 63.91 | 65.01 | 66.13 | 67.23 | 68.37 | 69.51 | 70.58 |
| Natural Gas | 16.72 | 17.16 | 17.62 | 18.08 | 18.54 | 19.00 | 19.46 | 19.94 | 20.42 | 20.91 | 21.40 | 21.90 | 22.37 |
| Total | 74.26 | 75.75 | 77.27 | 78.77 | 80.30 | 81.83 | 83.37 | 84.95 | 86.55 | 88.14 | 89.77 | 91.41 | 92.95 |
| Other Appliances (million units) | | | | | | | | | | | | | |
| Refrigerators | 121.37 | 122.49 | 123.66 | 124.79 | 125.98 | 127.19 | 128.43 | 129.74 | 131.09 | 132.46 | 133.90 | 135.36 | 136.71 |
| Freezers | 33.68 | 33.65 | 33.63 | 33.60 | 33.58 | 33.58 | 33.61 | 33.66 | 33.73 | 33.79 | 33.91 | 34.06 | 34.19 |
| Stock Average Equipment Efficiency | | | | | | | | | | | | | |
| Main Space Heaters | | | | | | | | | | | | | |
| Electric Heat Pumps (HSPF) | 6.95 | 7.00 | 7.05 | 7.09 | 7.13 | 7.15 | 7.23 | 7.29 | 7.35 | 7.41 | 7.45 | 7.50 | 7.54 |
| Natural Gas Heat Pumps (GCOP) | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 |
| Geothermal Heat Pumps (COP) | 3.41 | 3.42 | 3.42 | 3.42 | 3.43 | 3.43 | 3.43 | 3.44 | 3.44 | 3.44 | 3.45 | 3.45 | 3.46 |
| Natural Gas Furnace (AFUE) | 0.78 | 0.79 | 0.79 | 0.80 | 0.80 | 0.81 | 0.81 | 0.81 | 0.82 | 0.82 | 0.82 | 0.83 | 0.83 |
| Distillate Furnace (AFUE) | 0.80 | 0.80 | 0.81 | 0.81 | 0.81 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 |
| Space Cooling | | | | | | | | | | | | | |

**Table 21. Residential Sector Equipment Stock and Efficiency**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Heat Pumps (SEER) | 10.30 | 10.41 | 10.51 | 10.60 | 10.68 | 10.74 | 10.94 | 11.11 | 11.27 | 11.42 | 11.56 | 11.69 | 11.82 |
| Natural Gas Heat Pumps (GCOP) | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| Geothermal Heat Pumps (EER) | 13.62 | 13.66 | 13.70 | 13.74 | 13.78 | 13.79 | 13.81 | 13.82 | 13.83 | 13.85 | 13.89 | 13.92 | 13.96 |
| Cent. Air Conditioners (SEER) | 10.15 | 10.24 | 10.32 | 10.38 | 10.44 | 10.50 | 10.70 | 10.87 | 11.04 | 11.20 | 11.35 | 11.49 | 11.63 |
| Room Air Conditioners (EER) | 8.89 | 9.01 | 9.11 | 9.20 | 9.29 | 9.36 | 9.43 | 9.49 | 9.55 | 9.60 | 9.66 | 9.70 | 9.73 |
| | | | | | | | | | | | | | |
| Water Heaters | | | | | | | | | | | | | |
| Electric (EF) | 0.87 | 0.87 | 0.87 | 0.87 | 0.88 | 0.88 | 0.88 | 0.89 | 0.89 | 0.89 | 0.89 | 0.90 | 0.90 |
| Natural Gas (EF) | 0.55 | 0.55 | 0.55 | 0.55 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 | 0.58 | 0.58 | 0.59 |
| Distillate (EF) | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 |
| Liquefied Petroleum Gas (EF) | 0.55 | 0.55 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 | 0.58 | 0.58 | 0.59 | 0.59 |
| | | | | | | | | | | | | | |
| Other Appliances (kilowatthours per year) 2/ | | | | | | | | | | | | | |
| Refrigerators | 881.78 | 858.60 | 823.82 | 791.44 | 761.41 | 733.80 | 708.31 | 684.41 | 661.90 | 640.59 | 621.18 | 603.74 | 588.20 |
| Freezers | 631.23 | 609.77 | 586.57 | 564.99 | 545.01 | 527.72 | 513.68 | 502.04 | 491.92 | 483.25 | 475.55 | 469.02 | 463.50 |
| | | | | | | | | | | | | | |
| Building Shell Efficiency Index | | | | | | | | | | | | | |
| Space Heating | | | | | | | | | | | | | |
| Pre-1998 Homes | 0.95 | 0.95 | 0.94 | 0.94 | 0.94 | 0.94 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| New Construction | 0.86 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.82 | 0.82 |
| All Homes | 0.95 | 0.94 | 0.94 | 0.93 | 0.93 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.91 |
| | | | | | | | | | | | | | |
| Space Cooling | | | | | | | | | | | | | |
| Pre-1998 Homes | 0.96 | 0.96 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| New Construction | 0.91 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 |
| All Homes | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |

**Table 21. Residential Sector Equipment Stock and Efficiency**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment Stock (million units) | | | | | | | | | | | | | | |
| Main Space Heaters | | | | | | | | | | | | | | |
| Electric Heat Pumps | 12.65 | 12.83 | 13.00 | 13.16 | 13.32 | 13.48 | 13.64 | 13.80 | 13.96 | 14.12 | 14.28 | 14.45 | 14.62 | 1.5% |
| Electric Other | 23.43 | 23.69 | 23.93 | 24.16 | 24.38 | 24.60 | 24.83 | 25.05 | 25.27 | 25.50 | 25.74 | 25.99 | 26.24 | 1.0% |
| Natural Gas Heat Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Natural Gas Other | 65.81 | 66.56 | 67.30 | 68.00 | 68.69 | 69.35 | 70.03 | 70.71 | 71.39 | 72.09 | 72.78 | 73.48 | 74.17 | 1.1% |
| Distillate | 9.11 | 9.08 | 9.06 | 9.04 | 9.01 | 8.99 | 8.96 | 8.94 | 8.91 | 8.88 | 8.86 | 8.83 | 8.81 | -0.3% |
| Liquefied Petroleum Gas | 4.69 | 4.68 | 4.68 | 4.68 | 4.67 | 4.67 | 4.66 | 4.65 | 4.65 | 4.64 | 4.64 | 4.64 | 4.63 | -0.1% |
| Kerosene | 0.79 | 0.78 | 0.78 | 0.77 | 0.76 | 0.75 | 0.74 | 0.74 | 0.73 | 0.72 | 0.71 | 0.71 | 0.70 | -1.1% |
| Wood Stoves | 1.96 | 1.95 | 1.94 | 1.92 | 1.91 | 1.90 | 1.88 | 1.87 | 1.86 | 1.85 | 1.84 | 1.83 | 1.82 | -0.7% |
| Geothermal Heat Pumps | 0.55 | 0.56 | 0.58 | 0.60 | 0.61 | 0.63 | 0.64 | 0.66 | 0.67 | 0.69 | 0.70 | 0.72 | 0.74 | 2.7% |
| Total | 118.99 | 120.14 | 121.26 | 122.33 | 123.36 | 124.37 | 125.39 | 126.41 | 127.44 | 128.49 | 129.55 | 130.64 | 131.72 | 1.0% |
| Space Cooling (million units) | | | | | | | | | | | | | | |
| Electric Heat Pumps | 12.65 | 12.83 | 13.00 | 13.16 | 13.32 | 13.48 | 13.64 | 13.80 | 13.96 | 14.12 | 14.28 | 14.45 | 14.62 | 1.5% |
| Natural Gas Heat Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Geothermal Heat Pumps | 0.55 | 0.56 | 0.58 | 0.60 | 0.61 | 0.63 | 0.64 | 0.66 | 0.67 | 0.69 | 0.70 | 0.72 | 0.74 | 2.7% |
| Central Air Conditioners | 54.97 | 56.01 | 57.02 | 58.00 | 58.95 | 59.87 | 60.80 | 61.73 | 62.65 | 63.58 | 64.50 | 65.44 | 66.36 | 2.0% |
| Room Air Conditioners | 38.19 | 38.24 | 38.28 | 38.32 | 38.36 | 38.39 | 38.44 | 38.48 | 38.53 | 38.59 | 38.66 | 38.73 | 38.81 | 0.1% |
| Total | 106.36 | 107.64 | 108.88 | 110.08 | 111.25 | 112.38 | 113.52 | 114.67 | 115.81 | 116.98 | 118.14 | 119.34 | 120.53 | 1.2% |
| Water Heaters (million units) | | | | | | | | | | | | | | |
| Electric | 44.09 | 44.38 | 44.66 | 44.93 | 45.19 | 45.44 | 45.70 | 45.96 | 46.23 | 46.50 | 46.79 | 47.09 | 47.40 | 0.6% |
| Natural Gas | 67.44 | 68.33 | 69.20 | 70.03 | 70.84 | 71.63 | 72.42 | 73.22 | 74.02 | 74.82 | 75.63 | 76.44 | 77.25 | 1.3% |
| Distillate | 4.51 | 4.47 | 4.44 | 4.40 | 4.37 | 4.33 | 4.30 | 4.27 | 4.23 | 4.20 | 4.17 | 4.14 | 4.11 | -0.8% |
| Liquefied Petroleum Gas | 3.01 | 3.00 | 2.99 | 2.98 | 2.97 | 2.96 | 2.95 | 2.93 | 2.92 | 2.91 | 2.90 | 2.90 | 2.89 | -0.4% |
| Solar Thermal | 0.45 | 0.45 | 0.46 | 0.47 | 0.47 | 0.48 | 0.49 | 0.49 | 0.50 | 0.51 | 0.51 | 0.52 | 0.52 | 1.6% |
| Total | 119.49 | 120.63 | 121.74 | 122.81 | 123.84 | 124.84 | 125.86 | 126.88 | 127.90 | 128.95 | 130.00 | 131.08 | 132.16 | 1.0% |
| Cooking Equipment (million units) 1/ | | | | | | | | | | | | | | |
| Electric | 73.58 | 74.31 | 75.03 | 75.74 | 76.44 | 77.14 | 77.88 | 78.61 | 79.34 | 80.09 | 80.84 | 81.61 | 82.38 | 1.1% |
| Natural Gas | 41.47 | 41.90 | 42.31 | 42.69 | 43.03 | 43.35 | 43.64 | 43.94 | 44.25 | 44.56 | 44.87 | 45.20 | 45.52 | 0.9% |
| Liquefied Petroleum Gas | 4.11 | 4.09 | 4.07 | 4.05 | 4.03 | 4.02 | 4.01 | 4.00 | 3.99 | 3.97 | 3.96 | 3.95 | 3.94 | -0.4% |
| Total | 119.15 | 120.30 | 121.41 | 122.48 | 123.51 | 124.51 | 125.53 | 126.55 | 127.57 | 128.62 | 129.68 | 130.76 | 131.84 | 1.0% |
| Clothes Dryers (million units) | | | | | | | | | | | | | | |
| Electric | 71.59 | 72.57 | 73.54 | 74.47 | 75.37 | 76.26 | 77.14 | 78.02 | 78.88 | 79.74 | 80.59 | 81.45 | 82.29 | 1.4% |
| Natural Gas | 22.83 | 23.27 | 23.71 | 24.12 | 24.53 | 24.92 | 25.30 | 25.69 | 26.08 | 26.47 | 26.87 | 27.27 | 27.67 | 2.0% |
| Total | 94.42 | 95.85 | 97.24 | 98.59 | 99.90 | 101.17 | 102.44 | 103.70 | 104.96 | 106.21 | 107.46 | 108.72 | 109.97 | 1.6% |
| Other Appliances (million units) | | | | | | | | | | | | | | |
| Refrigerators | 137.97 | 139.20 | 140.40 | 141.54 | 142.65 | 143.72 | 144.80 | 145.89 | 146.98 | 148.09 | 149.21 | 150.35 | 151.50 | 0.9% |
| Freezers | 34.33 | 34.47 | 34.62 | 34.78 | 34.94 | 35.11 | 35.30 | 35.50 | 35.73 | 35.97 | 36.24 | 36.53 | 36.84 | 0.4% |
| Stock Average Equipment Efficiency | | | | | | | | | | | | | | |
| Main Space Heaters | | | | | | | | | | | | | | |
| Electric Heat Pumps (HSPF) | 7.58 | 7.62 | 7.66 | 7.69 | 7.72 | 7.74 | 7.77 | 7.80 | 7.83 | 7.85 | 7.87 | 7.88 | 7.90 | 0.5% |
| Natural Gas Heat Pumps (GCOP) | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.41 | 1.42 | 1.43 | 1.44 | 1.45 | 1.45 | 0.2% |
| Geothermal Heat Pumps (COP) | 3.46 | 3.47 | 3.47 | 3.47 | 3.48 | 3.48 | 3.48 | 3.51 | 3.53 | 3.55 | 3.57 | 3.60 | 3.62 | 0.2% |
| Natural Gas Furnace (AFUE) | 0.83 | 0.83 | 0.83 | 0.83 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.3% |
| Distillate Furnace (AFUE) | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 | 0.1% |
| Space Cooling | | | | | | | | | | | | | | |

**Table 21. Residential Sector Equipment Stock and Efficiency**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Heat Pumps (SEER) | 11.95 | 12.06 | 12.17 | 12.26 | 12.35 | 12.43 | 12.49 | 12.58 | 12.66 | 12.73 | 12.78 | 12.83 | 12.88 | 0.9% |
| Natural Gas Heat Pumps (GCOP) | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.0% |
| Geothermal Heat Pumps (EER) | 13.99 | 14.01 | 14.03 | 14.05 | 14.07 | 14.08 | 14.09 | 14.24 | 14.36 | 14.48 | 14.60 | 14.72 | 14.83 | 0.3% |
| Cent. Air Conditioners (SEER) | 11.76 | 11.88 | 11.99 | 12.10 | 12.19 | 12.27 | 12.35 | 12.43 | 12.51 | 12.57 | 12.63 | 12.68 | 12.72 | 0.9% |
| Room Air Conditioners (EER) | 9.76 | 9.78 | 9.79 | 9.80 | 9.80 | 9.80 | 9.80 | 9.83 | 9.86 | 9.89 | 9.92 | 9.95 | 9.98 | 0.4% |
| Water Heaters | | | | | | | | | | | | | | |
| Electric (EF) | 0.90 | 0.90 | 0.90 | 0.90 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.2% |
| Natural Gas (EF) | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.3% |
| Distillate (EF) | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.0% |
| Liquefied Petroleum Gas (EF) | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.3% |
| Other Appliances (kilowatthours per year) 2/ | | | | | | | | | | | | | | |
| Refrigerators | 574.53 | 562.48 | 552.05 | 543.05 | 535.41 | 528.89 | 523.45 | 518.63 | 514.53 | 511.11 | 508.41 | 506.39 | 504.90 | -2.2% |
| Freezers | 458.53 | 454.32 | 450.82 | 447.96 | 445.69 | 443.92 | 442.51 | 441.46 | 440.64 | 440.02 | 439.60 | 439.39 | 439.12 | -1.4% |
| Building Shell Efficiency Index | | | | | | | | | | | | | | |
| Space Heating | | | | | | | | | | | | | | |
| Pre-1998 Homes | 0.92 | 0.92 | 0.92 | 0.92 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.90 | 0.90 | 0.90 | -0.2% |
| New Construction | 0.82 | 0.82 | 0.82 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | -0.2% |
| All Homes | 0.90 | 0.90 | 0.90 | 0.89 | 0.89 | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.87 | -0.3% |
| Space Cooling | | | | | | | | | | | | | | |
| Pre-1998 Homes | 0.95 | 0.95 | 0.95 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | -0.1% |
| New Construction | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | -0.1% |
| All Homes | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.92 | 0.92 | 0.92 | -0.1% |

**Table 21. Residential Sector Equipment Stock and Efficiency**

1/ Does not include microwave ovens or outdoor grills.
2/ Kilowatthours per year to run the appliance under certain test conditions as specified by the Department of Energy.
HSPF = Heating Seasonal Performance Factor: The total heating output of a heat pump in Btu during its normal annual usage period for heating divided by total electric input in watt-hours during the same period.
COP = Coefficient of Performance: Energy efficiency rating measure determined, under specific testing conditions, by dividing the energy output by the energy input.
GCOP = Gas Coefficient of Performance: Energy efficiency rating measure determined, under specific testing conditions, by dividing the energy output by the energy input.
AFUE = Annual Fuel Utilization Efficiency: Efficiency rating based on average usage, including on and off cycling, as set out in the standardized Department of Energy test procedures.
SEER = Seasonal Energy Efficiency Ratio: The total cooling of a central unitary air conditioner or a unitary heat pump in Btu during its normal annual usage period for cooling divided by the total electric energy input in watt-hours during the same period.
EER = Energy Efficiency Ratio: A ratio calculated by dividing the cooling capacity in Btu per hour by the power input in watts at any given set of rating conditions, expressed in Btu per hour per watt.
EF = Efficiency Factor: Efficiency (measured in Btu out / Btu in) of water heaters under certain test conditions specified by the Department of Energy.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 22. Commercial Sector Energy Consumption, Floorspace, and Equipment Efficiency**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Commercial Building Delivered | | | | | | | | | | | | | |
| Energy Consumption (quadrillion Btu) 1/ | | | | | | | | | | | | | |
| Assembly | 0.52 | 0.51 | 0.52 | 0.53 | 0.54 | 0.54 | 0.55 | 0.56 | 0.56 | 0.57 | 0.57 | 0.58 | 0.58 |
| Education | 0.70 | 0.68 | 0.70 | 0.72 | 0.74 | 0.75 | 0.77 | 0.78 | 0.79 | 0.80 | 0.81 | 0.82 | 0.83 |
| Food Sales | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 | 0.22 | 0.22 | 0.23 | 0.23 | 0.23 | 0.24 | 0.24 |
| Food Service | 0.45 | 0.44 | 0.46 | 0.46 | 0.47 | 0.48 | 0.48 | 0.49 | 0.49 | 0.50 | 0.50 | 0.51 | 0.52 |
| Health Care | 0.46 | 0.45 | 0.46 | 0.48 | 0.50 | 0.51 | 0.53 | 0.54 | 0.56 | 0.57 | 0.59 | 0.60 | 0.62 |
| Lodging | 0.47 | 0.45 | 0.47 | 0.48 | 0.49 | 0.50 | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 |
| Office - Large | 0.74 | 0.73 | 0.75 | 0.76 | 0.78 | 0.80 | 0.82 | 0.83 | 0.85 | 0.86 | 0.88 | 0.89 | 0.91 |
| Office - Small | 0.42 | 0.42 | 0.43 | 0.44 | 0.46 | 0.47 | 0.48 | 0.49 | 0.50 | 0.51 | 0.52 | 0.53 | 0.54 |
| Mercantile/Service | 1.24 | 1.22 | 1.26 | 1.30 | 1.33 | 1.36 | 1.38 | 1.41 | 1.43 | 1.44 | 1.46 | 1.48 | 1.50 |
| Warehouse | 0.54 | 0.53 | 0.56 | 0.59 | 0.60 | 0.61 | 0.62 | 0.63 | 0.64 | 0.65 | 0.66 | 0.67 | 0.68 |
| Other | 0.37 | 0.38 | 0.39 | 0.41 | 0.42 | 0.44 | 0.45 | 0.47 | 0.48 | 0.50 | 0.51 | 0.53 | 0.54 |
| Total | 6.11 | 6.01 | 6.21 | 6.37 | 6.55 | 6.68 | 6.81 | 6.93 | 7.05 | 7.16 | 7.27 | 7.40 | 7.52 |
| Commercial Building Floorspace | | | | | | | | | | | | | |
| (billion square feet) | | | | | | | | | | | | | |
| Assembly | 7.86 | 7.95 | 8.03 | 8.10 | 8.18 | 8.25 | 8.33 | 8.40 | 8.48 | 8.56 | 8.64 | 8.72 | 8.81 |
| Education | 8.82 | 9.03 | 9.25 | 9.46 | 9.68 | 9.88 | 10.07 | 10.26 | 10.44 | 10.62 | 10.79 | 10.95 | 11.12 |
| Food Sales | 1.01 | 1.04 | 1.06 | 1.08 | 1.09 | 1.10 | 1.11 | 1.12 | 1.14 | 1.15 | 1.17 | 1.18 | 1.19 |
| Food Service | 1.89 | 1.93 | 1.97 | 2.00 | 2.03 | 2.04 | 2.06 | 2.08 | 2.10 | 2.12 | 2.14 | 2.16 | 2.19 |
| Health Care | 1.88 | 1.93 | 1.98 | 2.03 | 2.08 | 2.13 | 2.17 | 2.22 | 2.27 | 2.32 | 2.37 | 2.42 | 2.48 |
| Lodging | 4.61 | 4.71 | 4.83 | 4.94 | 5.04 | 5.13 | 5.22 | 5.30 | 5.39 | 5.49 | 5.60 | 5.71 | 5.83 |
| Office - Large | 7.41 | 7.52 | 7.65 | 7.78 | 7.89 | 7.98 | 8.05 | 8.13 | 8.20 | 8.28 | 8.37 | 8.46 | 8.55 |
| Office - Small | 5.76 | 5.86 | 5.97 | 6.08 | 6.18 | 6.26 | 6.33 | 6.39 | 6.46 | 6.54 | 6.61 | 6.70 | 6.78 |
| Mercantile/Service | 14.00 | 14.29 | 14.56 | 14.81 | 15.04 | 15.23 | 15.40 | 15.57 | 15.75 | 15.94 | 16.14 | 16.35 | 16.54 |
| Warehouse | 10.81 | 11.33 | 11.80 | 12.19 | 12.50 | 12.74 | 12.93 | 13.11 | 13.29 | 13.50 | 13.75 | 14.04 | 14.35 |
| Other | 4.46 | 4.64 | 4.82 | 5.00 | 5.18 | 5.35 | 5.53 | 5.70 | 5.86 | 6.02 | 6.19 | 6.36 | 6.53 |
| Total | 68.51 | 70.22 | 71.91 | 73.47 | 74.88 | 76.09 | 77.20 | 78.28 | 79.38 | 80.54 | 81.77 | 83.06 | 84.36 |
| Stock Average Equipment Efficiency 2/ | | | | | | | | | | | | | |
| Space Heating | | | | | | | | | | | | | |
| Electricity | 1.06 | 1.07 | 1.08 | 1.08 | 1.09 | 1.09 | 1.10 | 1.10 | 1.11 | 1.11 | 1.11 | 1.11 | 1.12 |
| Natural Gas | 0.72 | 0.73 | 0.73 | 0.74 | 0.74 | 0.74 | 0.75 | 0.75 | 0.76 | 0.76 | 0.76 | 0.77 | 0.77 |
| Distillate | 0.74 | 0.74 | 0.75 | 0.75 | 0.75 | 0.76 | 0.76 | 0.76 | 0.77 | 0.77 | 0.77 | 0.77 | 0.78 |
| Space Cooling | | | | | | | | | | | | | |
| Electricity | 2.70 | 2.74 | 2.78 | 2.82 | 2.85 | 2.88 | 2.92 | 2.95 | 2.98 | 3.01 | 3.04 | 3.07 | 3.10 |
| Natural Gas | 0.91 | 0.95 | 0.97 | 0.97 | 0.98 | 0.99 | 1.00 | 1.01 | 1.02 | 1.03 | 1.03 | 1.04 | 1.05 |
| Water Heating | | | | | | | | | | | | | |
| Electricity | 0.98 | 0.98 | 0.98 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 |
| Natural Gas | 0.76 | 0.78 | 0.79 | 0.80 | 0.80 | 0.81 | 0.81 | 0.81 | 0.82 | 0.82 | 0.82 | 0.83 | 0.83 |
| Distillate | 0.75 | 0.75 | 0.75 | 0.75 | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 | 0.77 | 0.77 | 0.77 | 0.77 |
| Ventilation (cubic feet per minute per Btu) 3/ | | | | | | | | | | | | | |
| Electricity | 0.33 | 0.34 | 0.35 | 0.36 | 0.36 | 0.37 | 0.37 | 0.38 | 0.38 | 0.39 | 0.39 | 0.39 | 0.40 |
| Cooking | | | | | | | | | | | | | |
| Electricity | 0.71 | 0.71 | 0.72 | 0.72 | 0.73 | 0.73 | 0.73 | 0.73 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 |
| Natural Gas | 0.50 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.52 |

**Table 22. Commercial Sector Energy Consumption, Floorspace, and Equipment Efficiency**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lighting Efficacy 4/ | | | | | | | | | | | | | |
| (efficacy in lumens per watt) | | | | | | | | | | | | | |
| Electricity | 47.31 | 47.62 | 47.72 | 47.73 | 47.69 | 47.78 | 47.87 | 47.95 | 48.03 | 48.18 | 48.30 | 48.43 | 48.62 |
| Refrigeration | | | | | | | | | | | | | |
| Electricity | 1.35 | 1.35 | 1.36 | 1.37 | 1.37 | 1.37 | 1.38 | 1.38 | 1.39 | 1.39 | 1.39 | 1.39 | 1.40 |

**Table 22. Commercial Sector Energy Consumption, Floorspace, and Equipment Efficiency**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Commercial Building Delivered | | | | | | | | | | | | | | |
| Energy Consumption (quadrillion Btu) 1/ | | | | | | | | | | | | | | |
| Assembly | 0.59 | 0.59 | 0.60 | 0.61 | 0.62 | 0.62 | 0.63 | 0.64 | 0.64 | 0.65 | 0.66 | 0.67 | 0.67 | 1.2% |
| Education | 0.84 | 0.85 | 0.86 | 0.87 | 0.88 | 0.89 | 0.90 | 0.91 | 0.92 | 0.92 | 0.92 | 0.93 | 0.93 | 1.3% |
| Food Sales | 0.24 | 0.24 | 0.25 | 0.25 | 0.25 | 0.25 | 0.26 | 0.26 | 0.26 | 0.27 | 0.27 | 0.27 | 0.27 | 1.2% |
| Food Service | 0.52 | 0.53 | 0.53 | 0.54 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.58 | 0.59 | 0.60 | 0.60 | 1.3% |
| Health Care | 0.63 | 0.65 | 0.67 | 0.69 | 0.71 | 0.73 | 0.75 | 0.77 | 0.79 | 0.81 | 0.83 | 0.85 | 0.88 | 2.8% |
| Lodging | 0.58 | 0.60 | 0.61 | 0.62 | 0.64 | 0.65 | 0.66 | 0.68 | 0.69 | 0.71 | 0.72 | 0.74 | 0.76 | 2.2% |
| Office - Large | 0.93 | 0.94 | 0.96 | 0.98 | 1.00 | 1.02 | 1.04 | 1.06 | 1.09 | 1.11 | 1.13 | 1.15 | 1.18 | 2.0% |
| Office - Small | 0.55 | 0.56 | 0.57 | 0.58 | 0.60 | 0.61 | 0.62 | 0.63 | 0.64 | 0.66 | 0.67 | 0.68 | 0.70 | 2.2% |
| Mercantile/Service | 1.52 | 1.53 | 1.55 | 1.56 | 1.58 | 1.60 | 1.62 | 1.64 | 1.66 | 1.68 | 1.70 | 1.71 | 1.73 | 1.5% |
| Warehouse | 0.70 | 0.72 | 0.73 | 0.75 | 0.76 | 0.78 | 0.80 | 0.82 | 0.84 | 0.86 | 0.89 | 0.91 | 0.92 | 2.3% |
| Other | 0.56 | 0.57 | 0.59 | 0.61 | 0.63 | 0.65 | 0.66 | 0.68 | 0.70 | 0.72 | 0.74 | 0.76 | 0.79 | 3.1% |
| Total | 7.66 | 7.79 | 7.92 | 8.06 | 8.20 | 8.35 | 8.51 | 8.66 | 8.82 | 8.97 | 9.12 | 9.27 | 9.43 | 1.9% |
| Commercial Building Floorspace | | | | | | | | | | | | | | |
| (billion square feet) | | | | | | | | | | | | | | |
| Assembly | 8.89 | 8.98 | 9.07 | 9.15 | 9.24 | 9.33 | 9.41 | 9.50 | 9.59 | 9.68 | 9.77 | 9.86 | 9.96 | 0.9% |
| Education | 11.27 | 11.42 | 11.57 | 11.71 | 11.84 | 11.97 | 12.08 | 12.18 | 12.26 | 12.33 | 12.38 | 12.41 | 12.43 | 1.3% |
| Food Sales | 1.20 | 1.21 | 1.22 | 1.23 | 1.24 | 1.26 | 1.27 | 1.28 | 1.29 | 1.29 | 1.30 | 1.31 | 1.32 | 1.0% |
| Food Service | 2.20 | 2.22 | 2.24 | 2.26 | 2.28 | 2.30 | 2.33 | 2.35 | 2.37 | 2.39 | 2.41 | 2.43 | 2.46 | 1.0% |
| Health Care | 2.53 | 2.59 | 2.65 | 2.71 | 2.77 | 2.83 | 2.90 | 2.96 | 3.03 | 3.09 | 3.16 | 3.23 | 3.30 | 2.3% |
| Lodging | 5.95 | 6.07 | 6.19 | 6.30 | 6.42 | 6.54 | 6.66 | 6.79 | 6.91 | 7.03 | 7.15 | 7.28 | 7.41 | 1.9% |
| Office - Large | 8.64 | 8.74 | 8.84 | 8.94 | 9.04 | 9.14 | 9.25 | 9.35 | 9.46 | 9.56 | 9.66 | 9.77 | 9.89 | 1.2% |
| Office - Small | 6.87 | 6.96 | 7.06 | 7.15 | 7.24 | 7.34 | 7.43 | 7.53 | 7.63 | 7.73 | 7.83 | 7.93 | 8.04 | 1.3% |
| Mercantile/Service | 16.72 | 16.89 | 17.06 | 17.23 | 17.40 | 17.59 | 17.78 | 17.97 | 18.16 | 18.34 | 18.51 | 18.69 | 18.88 | 1.2% |
| Warehouse | 14.66 | 14.97 | 15.26 | 15.54 | 15.81 | 16.10 | 16.42 | 16.77 | 17.15 | 17.53 | 17.89 | 18.23 | 18.53 | 2.1% |
| Other | 6.70 | 6.87 | 7.05 | 7.23 | 7.41 | 7.59 | 7.78 | 7.96 | 8.14 | 8.32 | 8.51 | 8.70 | 8.89 | 2.7% |
| Total | 85.65 | 86.93 | 88.20 | 89.46 | 90.71 | 91.98 | 93.30 | 94.64 | 95.98 | 97.29 | 98.57 | 99.85 | 101.10 | 1.5% |
| Stock Average Equipment Efficiency 2/ | | | | | | | | | | | | | | |
| Space Heating | | | | | | | | | | | | | | |
| Electricity | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.13 | 1.13 | 1.13 | 0.2% |
| Natural Gas | 0.77 | 0.77 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.3% |
| Distillate | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.2% |
| Space Cooling | | | | | | | | | | | | | | |
| Electricity | 3.12 | 3.14 | 3.17 | 3.19 | 3.21 | 3.23 | 3.25 | 3.27 | 3.29 | 3.31 | 3.33 | 3.35 | 3.37 | 0.9% |
| Natural Gas | 1.05 | 1.06 | 1.06 | 1.07 | 1.07 | 1.08 | 1.08 | 1.09 | 1.09 | 1.09 | 1.10 | 1.10 | 1.10 | 0.6% |
| Water Heating | | | | | | | | | | | | | | |
| Electricity | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.1% |
| Natural Gas | 0.83 | 0.83 | 0.83 | 0.83 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.3% |
| Distillate | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.78 | 0.78 | 0.78 | 0.1% |
| Ventilation (cubic feet per minute per Btu) 3/ | | | | | | | | | | | | | | |
| Electricity | 0.40 | 0.41 | 0.41 | 0.42 | 0.42 | 0.43 | 0.43 | 0.43 | 0.44 | 0.44 | 0.44 | 0.44 | 0.45 | 1.1% |
| Cooking | | | | | | | | | | | | | | |
| Electricity | 0.74 | 0.74 | 0.74 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.2% |
| Natural Gas | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.1% |

**Table 22. Commercial Sector Energy Consumption, Floorspace, and Equipment Efficiency**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lighting Efficacy 4/ | | | | | | | | | | | | | | |
| (efficacy in lumens per watt) | | | | | | | | | | | | | | |
| Electricity | 48.80 | 48.96 | 49.28 | 49.63 | 49.97 | 50.28 | 50.59 | 50.93 | 51.26 | 51.60 | 51.92 | 52.25 | 52.58 | 0.4% |
| Refrigeration | | | | | | | | | | | | | | |
| Electricity | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 0.1% |

**Table 22. Commercial Sector Energy Consumption, Floorspace, and Equipment Efficiency**

1/ Excludes commercial sector energy consumption (from uses such as street lights) that is not attributable to buildings.
2/ Unless noted otherwise, the efficiency measures are in the terms of Btu of energy output divided by Btu of energy input.
3/ The efficiency measure for ventilation is in terms of cubic feet per minute (cfm) of ventilation air delivered divided by Btu of energy input.
4/ A measurement of the ratio of light produced by a light source to the electrical power used to produce that quality of light, expressed in lumens per watt.
Btu = British thermal unit.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 23. Industrial Sector Macroeconomic Indicators**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GDP (billion 1996 dollars) | 9191.4 | 9214.5 | 9439.7 | 9743.3 | 10074.5 | 10361.2 | 10666.6 | 11017.3 | 11407.9 | 11810.3 | 12258.4 | 12671.3 | 13081.8 |
| Non-Agricultural Employment (millions) | 131.3 | 131.7 | 130.8 | 132.6 | 135.3 | 137.0 | 138.6 | 140.7 | 142.9 | 144.7 | 147.1 | 149.3 | 150.5 |
| Value of Shipments (billion 1996 dollars) | | | | | | | | | | | | | |
| Nonmanufacturing Sector | | | | | | | | | | | | | |
| Agricultural | 282.1 | 282.0 | 284.4 | 285.1 | 286.7 | 288.5 | 291.8 | 297.6 | 304.7 | 311.3 | 317.4 | 323.7 | 328.8 |
| Mining | 139.6 | 140.4 | 138.8 | 141.4 | 142.5 | 143.4 | 147.7 | 149.5 | 151.1 | 152.1 | 153.0 | 154.4 | 156.1 |
| Construction | 919.7 | 923.4 | 905.4 | 893.7 | 905.1 | 908.0 | 918.3 | 955.0 | 985.4 | 1007.4 | 1034.8 | 1064.4 | 1088.3 |
| Manufacturing Sector | | | | | | | | | | | | | |
| Food and Kindred Products | 437.7 | 441.1 | 445.4 | 455.9 | 462.3 | 464.5 | 467.1 | 471.9 | 477.9 | 487.3 | 499.2 | 509.4 | 516.9 |
| Beverages and Tobacco Products | 105.4 | 105.0 | 106.2 | 106.9 | 108.0 | 109.4 | 110.3 | 111.6 | 113.0 | 114.8 | 117.1 | 119.2 | 120.7 |
| Textile Mill Products | 78.5 | 70.3 | 66.8 | 66.1 | 65.1 | 64.6 | 64.1 | 64.0 | 63.4 | 63.2 | 63.0 | 62.8 | 63.9 |
| Apparel and Other Textile Products | 80.1 | 75.0 | 75.3 | 73.2 | 71.9 | 71.2 | 70.2 | 69.9 | 69.1 | 68.2 | 67.8 | 67.4 | 67.7 |
| Lumber and Wood Products | 108.9 | 99.7 | 101.0 | 105.2 | 106.4 | 103.5 | 104.2 | 106.8 | 109.2 | 112.1 | 116.0 | 119.3 | 122.3 |
| Furniture and Fixtures | 67.6 | 61.6 | 61.2 | 63.8 | 65.0 | 65.4 | 66.3 | 68.8 | 70.7 | 72.8 | 75.5 | 78.0 | 79.6 |
| Paper and Allied Products | 165.4 | 154.2 | 152.3 | 157.0 | 160.4 | 162.8 | 164.7 | 167.5 | 170.5 | 174.7 | 179.9 | 184.6 | 188.4 |
| Printing and Publishing | 209.5 | 191.7 | 184.5 | 189.3 | 193.6 | 195.6 | 198.1 | 201.7 | 204.1 | 207.4 | 211.7 | 215.4 | 219.2 |
| Chemical and Allied Products | 413.4 | 388.2 | 384.6 | 398.6 | 408.4 | 415.3 | 425.6 | 440.1 | 454.9 | 472.1 | 491.4 | 510.4 | 527.6 |
| Bulk Chemicals | 205.2 | 192.6 | 190.8 | 196.6 | 199.4 | 199.7 | 202.9 | 208.1 | 213.7 | 220.4 | 228.0 | 235.3 | 241.6 |
| Other Chemical and Allied Products | 208.2 | 195.7 | 193.8 | 202.0 | 209.0 | 215.6 | 222.7 | 232.0 | 241.2 | 251.7 | 263.4 | 275.1 | 286.0 |
| Petroleum and Coal Products | 183.0 | 187.0 | 189.7 | 193.4 | 193.9 | 196.7 | 199.1 | 203.8 | 207.3 | 210.7 | 214.9 | 218.3 | 221.5 |
| Petroleum Refining | 164.0 | 170.1 | 173.0 | 176.7 | 176.9 | 179.5 | 181.5 | 185.8 | 188.9 | 191.8 | 195.5 | 198.3 | 201.2 |
| Other Petroleum and Coal Products | 19.1 | 16.9 | 16.7 | 16.6 | 17.0 | 17.2 | 17.6 | 18.0 | 18.4 | 18.9 | 19.4 | 20.0 | 20.3 |
| Rubber and Miscellaneous Plastic Products | 169.7 | 160.7 | 160.8 | 166.2 | 171.5 | 175.2 | 179.9 | 185.5 | 190.4 | 196.4 | 203.6 | 210.8 | 218.1 |
| Leather and Leather Products | 8.1 | 7.2 | 6.6 | 6.4 | 6.2 | 6.0 | 5.8 | 5.6 | 5.5 | 5.4 | 5.4 | 5.3 | 5.2 |
| Stone, Clay, and Glass Products | 99.8 | 87.6 | 79.5 | 80.3 | 82.9 | 84.8 | 87.1 | 90.1 | 92.7 | 95.5 | 98.7 | 102.0 | 103.5 |
| Glass and Glass Products | 27.4 | 24.1 | 22.4 | 22.6 | 23.4 | 24.4 | 25.4 | 26.4 | 27.2 | 28.3 | 29.3 | 30.6 | 31.3 |
| Cement and Hydraulic Products | 6.3 | 6.0 | 5.7 | 5.7 | 6.1 | 6.2 | 6.2 | 6.4 | 6.7 | 6.8 | 7.0 | 7.2 | 7.3 |
| Other Stone, Clay, and Glass Products | 66.0 | 57.4 | 51.5 | 52.0 | 53.4 | 54.2 | 55.5 | 57.3 | 58.8 | 60.4 | 62.3 | 64.2 | 64.9 |
| Primary Metals Industry | 195.1 | 175.6 | 169.1 | 177.5 | 183.4 | 185.2 | 189.1 | 195.3 | 199.6 | 205.4 | 212.8 | 219.7 | 224.7 |
| Blast Furnace and Basic Steel Products | 75.4 | 67.5 | 66.0 | 69.6 | 71.4 | 72.2 | 73.9 | 76.0 | 77.6 | 79.8 | 82.3 | 84.8 | 86.3 |
| Aluminum | 31.7 | 30.3 | 29.4 | 30.6 | 31.4 | 31.3 | 31.5 | 32.1 | 32.9 | 33.7 | 34.8 | 35.7 | 36.3 |
| Other Primary Metal Products | 87.9 | 77.8 | 73.7 | 77.3 | 80.6 | 81.7 | 83.7 | 87.2 | 89.0 | 91.9 | 95.7 | 99.2 | 102.1 |
| Fabricated Metal Products | 237.8 | 217.3 | 213.8 | 224.0 | 231.2 | 235.0 | 238.6 | 244.4 | 249.5 | 256.1 | 264.4 | 272.4 | 280.1 |
| Industrial Machinery and Equipment | 494.6 | 442.9 | 424.4 | 467.6 | 505.8 | 532.0 | 568.0 | 592.2 | 623.2 | 657.6 | 696.1 | 732.1 | 770.5 |
| Electronic and Other Electric Equipment | 511.6 | 441.0 | 437.6 | 512.0 | 581.0 | 628.6 | 687.7 | 744.1 | 805.8 | 875.1 | 948.6 | 1017.5 | 1088.0 |
| Transportation Equipment | 565.2 | 528.8 | 502.3 | 533.9 | 569.4 | 582.7 | 607.6 | 636.1 | 649.4 | 667.7 | 686.7 | 701.6 | 714.1 |
| Instruments and Related Products | 179.7 | 180.2 | 179.1 | 184.4 | 191.7 | 197.4 | 200.8 | 206.4 | 212.0 | 218.1 | 225.8 | 233.0 | 244.0 |
| Miscellaneous Manufacturing Industries | 66.5 | 63.8 | 62.8 | 63.8 | 65.4 | 66.3 | 67.5 | 69.5 | 70.8 | 72.5 | 74.8 | 76.9 | 80.4 |
| Total Industrial Value of Shipments | 5719.1 | 5424.9 | 5331.7 | 5545.2 | 5757.6 | 5882.2 | 6059.6 | 6277.4 | 6480.1 | 6704.0 | 6958.6 | 7198.3 | 7429.8 |

**Table 23. Industrial Sector Macroeconomic Indicators**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GDP (billion 1996 dollars) | 13479.9 | 13892.9 | 14287.9 | 14680.7 | 15101.4 | 15540.1 | 16013.0 | 16450.0 | 16887.9 | 17362.6 | 17858.1 | 18388.7 | 18916.5 | 3.0% |
| Non-Agricultural Employment (millions) | 151.5 | 152.8 | 154.0 | 155.1 | 156.0 | 157.0 | 158.1 | 159.2 | 160.0 | 161.4 | 162.7 | 164.4 | 165.9 | 1.0% |
| Value of Shipments (billion 1996 dollars) | | | | | | | | | | | | | | |
| Nonmanufacturing Sector | | | | | | | | | | | | | | |
| Agricultural | 332.7 | 336.4 | 340.0 | 344.2 | 349.1 | 353.9 | 358.4 | 363.4 | 368.4 | 372.9 | 377.4 | 382.3 | 387.6 | 1.3% |
| Mining | 157.4 | 159.0 | 160.8 | 162.1 | 163.5 | 166.0 | 168.9 | 170.9 | 172.9 | 175.9 | 177.4 | 179.4 | 181.1 | 1.1% |
| Construction | 1098.5 | 1119.1 | 1134.9 | 1145.3 | 1156.6 | 1166.7 | 1187.5 | 1208.8 | 1225.2 | 1244.1 | 1259.3 | 1279.4 | 1300.5 | 1.4% |
| Manufacturing Sector | | | | | | | | | | | | | | |
| Food and Kindred Products | 522.8 | 529.2 | 535.4 | 541.9 | 549.3 | 557.0 | 565.4 | 572.6 | 579.6 | 587.1 | 594.7 | 603.1 | 609.4 | 1.4% |
| Beverages and Tobacco Products | 122.0 | 123.4 | 124.9 | 126.6 | 128.6 | 130.5 | 132.5 | 134.3 | 136.2 | 138.2 | 140.0 | 142.0 | 143.9 | 1.3% |
| Textile Mill Products | 65.9 | 67.8 | 69.4 | 71.1 | 73.0 | 75.3 | 77.7 | 79.5 | 81.0 | 82.6 | 84.2 | 85.5 | 85.4 | 0.8% |
| Apparel and Other Textile Products | 68.3 | 68.7 | 68.9 | 69.1 | 69.5 | 69.8 | 70.3 | 70.5 | 70.6 | 70.8 | 70.9 | 71.3 | 71.6 | -0.2% |
| Lumber and Wood Products | 124.3 | 126.6 | 128.1 | 128.8 | 130.1 | 131.6 | 134.3 | 136.1 | 138.1 | 140.6 | 142.8 | 145.3 | 145.5 | 1.6% |
| Furniture and Fixtures | 80.7 | 82.1 | 82.8 | 83.4 | 84.4 | 85.2 | 86.3 | 86.7 | 86.9 | 87.3 | 87.1 | 86.6 | 84.8 | 1.3% |
| Paper and Allied Products | 192.0 | 195.6 | 198.6 | 201.3 | 204.2 | 207.4 | 210.8 | 213.7 | 216.3 | 219.5 | 222.6 | 225.9 | 229.1 | 1.7% |
| Printing and Publishing | 223.1 | 227.2 | 230.8 | 234.0 | 237.5 | 241.4 | 245.9 | 249.9 | 253.2 | 257.3 | 261.5 | 266.3 | 271.0 | 1.5% |
| Chemical and Allied Products | 541.8 | 556.1 | 568.8 | 582.2 | 598.4 | 614.7 | 631.1 | 645.4 | 661.0 | 676.9 | 691.8 | 707.9 | 724.1 | 2.6% |
| Bulk Chemicals | 246.1 | 250.5 | 254.0 | 257.3 | 261.7 | 266.1 | 271.0 | 274.9 | 279.2 | 283.7 | 287.9 | 292.6 | 296.8 | 1.8% |
| Other Chemical and Allied Products | 295.7 | 305.6 | 314.7 | 324.9 | 336.7 | 348.6 | 360.1 | 370.5 | 381.8 | 393.2 | 403.9 | 415.3 | 427.3 | 3.3% |
| Petroleum and Coal Products | 223.7 | 225.3 | 226.6 | 228.1 | 229.8 | 231.7 | 233.7 | 235.4 | 236.3 | 237.4 | 238.6 | 240.0 | 241.1 | 1.1% |
| Petroleum Refining | 203.1 | 204.3 | 205.2 | 206.3 | 207.6 | 209.0 | 210.4 | 211.8 | 212.3 | 212.8 | 213.4 | 214.2 | 214.7 | 1.0% |
| Other Petroleum and Coal Products | 20.6 | 21.0 | 21.4 | 21.8 | 22.2 | 22.7 | 23.3 | 23.6 | 24.0 | 24.6 | 25.2 | 25.8 | 26.4 | 1.9% |
| Rubber and Miscellaneous Plastic Products | 225.9 | 234.5 | 242.0 | 249.0 | 256.7 | 264.8 | 273.8 | 281.0 | 288.8 | 298.3 | 307.7 | 318.0 | 327.0 | 3.0% |
| Leather and Leather Products | 5.1 | 5.0 | 4.9 | 4.8 | 4.7 | 4.6 | 4.6 | 4.4 | 4.3 | 4.2 | 4.1 | 3.9 | 3.8 | -2.7% |
| Stone, Clay, and Glass Products | 104.3 | 105.6 | 106.4 | 107.0 | 107.8 | 108.8 | 110.4 | 111.5 | 112.6 | 114.2 | 115.6 | 117.3 | 117.7 | 1.2% |
| Glass and Glass Products | 31.8 | 32.4 | 33.0 | 33.5 | 34.1 | 34.6 | 35.5 | 36.3 | 37.1 | 38.0 | 38.9 | 40.0 | 40.9 | 2.2% |
| Cement and Hydraulic Products | 7.5 | 7.6 | 7.7 | 7.8 | 7.8 | 7.9 | 8.0 | 8.0 | 8.2 | 8.2 | 8.3 | 8.3 | 8.3 | 1.3% |
| Other Stone, Clay, and Glass Products | 65.0 | 65.5 | 65.7 | 65.7 | 65.9 | 66.2 | 66.9 | 67.1 | 67.4 | 68.0 | 68.5 | 69.0 | 68.5 | 0.7% |
| Primary Metals Industry | 228.0 | 231.5 | 232.4 | 232.4 | 233.6 | 235.2 | 237.7 | 238.1 | 238.3 | 240.8 | 242.6 | 245.8 | 248.0 | 1.4% |
| Blast Furnace and Basic Steel Products | 87.2 | 88.0 | 87.8 | 87.5 | 87.7 | 88.2 | 88.7 | 88.3 | 88.3 | 88.8 | 89.2 | 89.9 | 90.2 | 1.2% |
| Aluminum | 37.0 | 37.7 | 38.2 | 38.6 | 39.0 | 39.4 | 39.9 | 40.1 | 40.4 | 40.9 | 41.4 | 41.9 | 42.5 | 1.4% |
| Other Primary Metal Products | 103.8 | 105.8 | 106.4 | 106.4 | 106.9 | 107.6 | 109.1 | 109.7 | 109.6 | 111.0 | 112.1 | 114.1 | 115.2 | 1.6% |
| Fabricated Metal Products | 287.2 | 294.7 | 300.4 | 305.2 | 310.6 | 316.5 | 322.9 | 328.2 | 333.4 | 340.3 | 346.8 | 354.0 | 360.8 | 2.1% |
| Industrial Machinery and Equipment | 808.6 | 844.7 | 873.5 | 900.5 | 931.9 | 967.7 | 1004.9 | 1041.4 | 1084.1 | 1134.4 | 1189.8 | 1248.9 | 1282.0 | 4.5% |
| Electronic and Other Electric Equipment | 1154.9 | 1214.8 | 1259.6 | 1294.3 | 1328.5 | 1365.4 | 1403.8 | 1439.8 | 1481.0 | 1529.4 | 1580.1 | 1634.7 | 1690.5 | 5.8% |
| Transportation Equipment | 726.4 | 747.6 | 766.0 | 783.6 | 807.5 | 832.3 | 864.7 | 889.3 | 912.0 | 948.6 | 981.7 | 1026.1 | 1061.4 | 2.9% |
| Instruments and Related Products | 256.1 | 268.0 | 279.2 | 290.3 | 302.0 | 313.8 | 326.1 | 338.3 | 350.7 | 363.6 | 376.6 | 390.1 | 404.4 | 3.4% |
| Miscellaneous Manufacturing Industries | 84.8 | 89.8 | 94.6 | 99.4 | 104.9 | 111.0 | 117.7 | 123.9 | 129.6 | 136.3 | 142.9 | 149.9 | 155.7 | 3.8% |
| Total Industrial Value of Shipments | 7634.5 | 7852.7 | 8029.1 | 8184.7 | 8362.2 | 8551.3 | 8769.2 | 8963.0 | 9160.6 | 9400.6 | 9636.1 | 9903.8 | 10126.2 | 2.6% |

**Table 23. Industrial Sector Macroeconomic Indicators**

GDP = Gross domestic product.
Note: Totals may not equal sum of components due to independent rounding.
Source: 2000 and 2001: Global Insight macroeconomic model CTL0802 and industry service August 2002, run for the Energy Information Administration (EIA). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 24. Refining Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 163.95 | 170.11 | 173.02 | 176.75 | 176.87 | 179.50 | 181.51 | 185.79 | 188.91 | 191.77 | 195.54 | 198.32 | 201.19 |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | |
| Residual Oil | 35.2 | 39.8 | 39.5 | 40.7 | 0.2 | 0.0 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Distillate Oil | 4.2 | 6.2 | 6.2 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Liquefied Petroleum Gas | 16.3 | 19.0 | 18.8 | 19.4 | 61.8 | 61.8 | 63.9 | 63.7 | 62.3 | 64.8 | 71.0 | 79.7 | 95.5 |
| Petroleum Coke | 579.0 | 532.6 | 528.8 | 544.6 | 601.7 | 604.3 | 567.9 | 572.5 | 587.1 | 585.3 | 596.0 | 606.5 | 615.6 |
| Still Gas | 1431.2 | 1441.3 | 1430.9 | 1473.7 | 1576.2 | 1594.2 | 1664.4 | 1696.1 | 1739.8 | 1750.3 | 1721.7 | 1667.5 | 1634.0 |
| Other Petroleum 2/ | 39.5 | 33.5 | 33.3 | 34.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Petroleum Subtotal | 2105.5 | 2072.5 | 2057.4 | 2119.1 | 2239.8 | 2260.3 | 2296.3 | 2332.4 | 2389.4 | 2400.7 | 2388.9 | 2354.0 | 2345.3 |
| Natural Gas | 853.3 | 785.4 | 779.8 | 803.1 | 664.0 | 677.0 | 746.6 | 762.2 | 760.2 | 776.7 | 845.8 | 898.9 | 902.0 |
| Steam Coal 3/ | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Purchased Electricity | 112.0 | 116.6 | 115.8 | 119.3 | 120.9 | 121.4 | 129.7 | 139.5 | 144.1 | 143.6 | 147.2 | 151.2 | 154.9 |
| Total | 3071.6 | 2975.4 | 2953.8 | 3042.3 | 3024.7 | 3058.7 | 3172.6 | 3234.1 | 3293.7 | 3320.9 | 3381.9 | 3404.1 | 3402.2 |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | |
| Residual Oil | 0.21 | 0.23 | 0.23 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Distillate Oil | 0.03 | 0.04 | 0.04 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquefied Petroleum Gas | 0.10 | 0.11 | 0.11 | 0.11 | 0.35 | 0.34 | 0.35 | 0.34 | 0.33 | 0.34 | 0.36 | 0.40 | 0.47 |
| Petroleum Coke | 3.53 | 3.13 | 3.06 | 3.08 | 3.40 | 3.37 | 3.13 | 3.08 | 3.11 | 3.05 | 3.05 | 3.06 | 3.06 |
| Still Gas | 8.73 | 8.47 | 8.27 | 8.34 | 8.91 | 8.88 | 9.17 | 9.13 | 9.21 | 9.13 | 8.80 | 8.41 | 8.12 |
| Other Petroleum 2/ | 0.24 | 0.20 | 0.19 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Petroleum Subtotal | 12.84 | 12.18 | 11.89 | 11.99 | 12.66 | 12.59 | 12.65 | 12.55 | 12.65 | 12.52 | 12.22 | 11.87 | 11.66 |
| Natural Gas | 5.20 | 4.62 | 4.51 | 4.54 | 3.75 | 3.77 | 4.11 | 4.10 | 4.02 | 4.05 | 4.33 | 4.53 | 4.48 |
| Steam Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Purchased Electricity | 0.68 | 0.69 | 0.67 | 0.67 | 0.68 | 0.68 | 0.71 | 0.75 | 0.76 | 0.75 | 0.75 | 0.76 | 0.77 |
| Total | 18.73 | 17.49 | 17.07 | 17.21 | 17.10 | 17.04 | 17.48 | 17.41 | 17.44 | 17.32 | 17.30 | 17.17 | 16.91 |
| Carbon Dioxide Emissions 4/ (million metric tons carbon equivalent) | 53.1 | 52.0 | 51.3 | 52.7 | 52.4 | 53.0 | 55.2 | 56.5 | 57.6 | 58.0 | 58.9 | 59.2 | 59.2 |
| Combined Heat and Power | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Petroleum | 0.08 | 0.08 | 0.08 | 0.08 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| Natural Gas | 2.57 | 2.57 | 2.57 | 2.57 | 2.39 | 2.39 | 2.39 | 2.39 | 2.39 | 2.39 | 2.39 | 2.39 | 2.39 |
| Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other 5/ | 1.05 | 1.05 | 1.05 | 1.05 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 |
| Total | 3.70 | 3.70 | 3.70 | 3.70 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Petroleum | 0.85 | 0.87 | 1.28 | 1.28 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 |
| Natural Gas | 15.67 | 15.64 | 16.26 | 16.26 | 15.58 | 15.58 | 15.58 | 15.58 | 15.58 | 15.58 | 15.58 | 15.58 | 15.58 |
| Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other 5/ | 6.41 | 6.03 | 5.93 | 5.93 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 |
| Total | 22.93 | 22.55 | 23.47 | 23.47 | 23.93 | 23.93 | 23.93 | 23.93 | 23.93 | 23.93 | 23.93 | 23.93 | 23.93 |
| Disposition | | | | | | | | | | | | | |
| Sales to the Grid | 5.94 | 4.69 | 6.09 | 6.09 | 5.45 | 5.45 | 5.45 | 5.45 | 5.45 | 5.45 | 5.45 | 5.45 | 5.45 |
| Generation for Own Use | 17.00 | 17.86 | 17.38 | 17.38 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 |
| Energy Input (trillion Btu) | | | | | | | | | | | | | |
| Petroleum | 37 | 37 | 37 | 37 | 27 | 27 | 27 | 26 | 26 | 26 | 26 | 26 | 26 |
| Natural Gas | 316 | 330 | 330 | 330 | 340 | 339 | 338 | 337 | 336 | 335 | 334 | 333 | 332 |
| Coal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 24. Refining Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other 5/ | 175 | 156 | 156 | 156 | 156 | 155 | 155 | 154 | 154 | 154 | 153 | 153 | 152 |
| Total | 528 | 523 | 523 | 523 | 523 | 521 | 520 | 518 | 517 | 515 | 514 | 512 | 510 |
| | | | | | | | | | | | | | |
| Energy Consumed at Ethanol Plants (trillion Btu) | | | | | | | | | | | | | |
| Natural Gas | 24.4 | 26.2 | 29.1 | 34.1 | 46.8 | 48.3 | 50.7 | 53.2 | 55.8 | 58.4 | 60.3 | 62.9 | 61.8 |
| Coal | 50.9 | 54.8 | 60.9 | 71.6 | 72.9 | 72.4 | 72.4 | 72.3 | 72.2 | 72.2 | 72.1 | 71.9 | 71.9 |
| Electricity | 2.8 | 3.1 | 3.5 | 4.1 | 5.5 | 5.7 | 5.9 | 6.2 | 6.5 | 6.7 | 7.0 | 7.2 | 7.1 |
| Total | 78.1 | 84.0 | 93.5 | 109.9 | 125.1 | 126.4 | 129.1 | 131.7 | 134.4 | 137.3 | 139.4 | 142.0 | 140.9 |

**Table 24. Refining Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 203.13 | 204.28 | 205.17 | 206.31 | 207.57 | 209.03 | 210.42 | 211.78 | 212.30 | 212.82 | 213.40 | 214.17 | 214.71 | 1.0% |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Residual Oil | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Distillate Oil | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Liquefied Petroleum Gas | 125.8 | 130.8 | 139.4 | 142.2 | 141.1 | 144.7 | 154.1 | 157.0 | 156.0 | 155.2 | 152.9 | 155.0 | 158.3 | 9.2% |
| Petroleum Coke | 624.7 | 626.3 | 643.6 | 649.9 | 653.1 | 646.1 | 648.8 | 643.7 | 651.5 | 656.1 | 646.0 | 641.6 | 638.5 | 0.8% |
| Still Gas | 1625.1 | 1626.8 | 1571.7 | 1587.1 | 1604.1 | 1605.9 | 1602.8 | 1598.1 | 1584.9 | 1579.8 | 1583.4 | 1583.3 | 1581.8 | 0.4% |
| Other Petroleum 2/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Petroleum Subtotal | 2375.5 | 2383.9 | 2354.8 | 2379.2 | 2398.3 | 2396.7 | 2405.6 | 2398.8 | 2392.4 | 2391.1 | 2382.2 | 2379.8 | 2378.6 | 0.6% |
| Natural Gas | 869.5 | 863.8 | 893.5 | 878.5 | 863.6 | 854.1 | 847.4 | 845.0 | 855.9 | 859.0 | 863.1 | 865.4 | 866.0 | 0.4% |
| Steam Coal 3/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Purchased Electricity | 160.5 | 160.7 | 163.9 | 165.9 | 167.2 | 165.6 | 164.3 | 164.4 | 163.9 | 164.0 | 164.6 | 165.0 | 167.0 | 1.5% |
| Total | 3405.6 | 3408.3 | 3412.2 | 3423.7 | 3429.1 | 3416.4 | 3417.4 | 3408.2 | 3412.2 | 3414.0 | 3410.0 | 3410.2 | 3411.6 | 0.6% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | | |
| Residual Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Distillate Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Liquefied Petroleum Gas | 0.62 | 0.64 | 0.68 | 0.69 | 0.68 | 0.69 | 0.73 | 0.74 | 0.73 | 0.73 | 0.72 | 0.72 | 0.74 | 8.2% |
| Petroleum Coke | 3.08 | 3.07 | 3.14 | 3.15 | 3.15 | 3.09 | 3.08 | 3.04 | 3.07 | 3.08 | 3.03 | 3.00 | 2.97 | -0.2% |
| Still Gas | 8.00 | 7.96 | 7.66 | 7.69 | 7.73 | 7.68 | 7.62 | 7.55 | 7.47 | 7.42 | 7.42 | 7.39 | 7.37 | -0.6% |
| Other Petroleum 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Petroleum Subtotal | 11.69 | 11.67 | 11.48 | 11.53 | 11.55 | 11.47 | 11.43 | 11.33 | 11.27 | 11.24 | 11.16 | 11.11 | 11.08 | -0.4% |
| Natural Gas | 4.28 | 4.23 | 4.35 | 4.26 | 4.16 | 4.09 | 4.03 | 3.99 | 4.03 | 4.04 | 4.04 | 4.04 | 4.03 | -0.6% |
| Steam Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Purchased Electricity | 0.79 | 0.79 | 0.80 | 0.80 | 0.81 | 0.79 | 0.78 | 0.78 | 0.77 | 0.77 | 0.77 | 0.77 | 0.78 | 0.5% |
| Total | 16.77 | 16.68 | 16.63 | 16.59 | 16.52 | 16.34 | 16.24 | 16.09 | 16.07 | 16.04 | 15.98 | 15.92 | 15.89 | -0.4% |
| Carbon Dioxide Emissions 4/ (million metric tons carbon equivalent) | 59.5 | 59.5 | 59.5 | 59.8 | 60.0 | 59.7 | 59.7 | 59.6 | 59.5 | 59.6 | 59.5 | 59.5 | 59.6 | 0.6% |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Petroleum | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.21 | 4.1% |
| Natural Gas | 2.39 | 2.39 | 2.39 | 2.39 | 2.39 | 2.41 | 2.43 | 2.46 | 2.49 | 2.52 | 2.55 | 2.59 | 2.62 | 0.1% |
| Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other 5/ | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.10 | 1.11 | 1.12 | 1.14 | 1.15 | 1.17 | 1.18 | 1.20 | 0.6% |
| Total | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.71 | 3.74 | 3.77 | 3.82 | 3.87 | 3.92 | 3.98 | 4.03 | 0.4% |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Petroleum | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.24 | 1.26 | 1.27 | 1.29 | 1.31 | 1.34 | 1.35 | 1.9% |
| Natural Gas | 15.58 | 15.58 | 15.58 | 15.58 | 15.58 | 15.58 | 15.84 | 16.09 | 16.18 | 16.43 | 16.68 | 17.10 | 17.24 | 0.4% |
| Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other 5/ | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.25 | 7.37 | 7.40 | 7.52 | 7.64 | 7.83 | 7.89 | 1.1% |
| Total | 23.93 | 23.93 | 23.93 | 23.93 | 23.93 | 23.93 | 24.34 | 24.72 | 24.85 | 25.24 | 25.63 | 26.26 | 26.49 | 0.7% |
| Disposition | | | | | | | | | | | | | | |
| Sales to the Grid | 5.45 | 5.45 | 5.45 | 5.45 | 5.45 | 5.45 | 5.65 | 5.84 | 5.94 | 6.17 | 6.40 | 6.77 | 6.92 | 1.6% |
| Generation for Own Use | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.48 | 18.68 | 18.88 | 18.91 | 19.07 | 19.23 | 19.50 | 19.56 | 0.4% |
| Energy Input (trillion Btu) | | | | | | | | | | | | | | |
| Petroleum | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 27 | 27 | 28 | 28 | 29 | 30 | -0.9% |
| Natural Gas | 331 | 330 | 329 | 328 | 327 | 326 | 335 | 342 | 344 | 352 | 360 | 373 | 377 | 0.6% |
| Coal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |

**Table 24. Refining Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other 5/ | 152 | 151 | 151 | 150 | 150 | 149 | 153 | 157 | 158 | 161 | 165 | 171 | 173 | 0.4% |
| Total | 509 | 507 | 506 | 504 | 503 | 501 | 514 | 526 | 529 | 541 | 553 | 573 | 579 | 0.4% |
| | | | | | | | | | | | | | | |
| Energy Consumed at Ethanol Plants (trillion Btu) | | | | | | | | | | | | | | |
| Natural Gas | 63.4 | 65.0 | 66.3 | 67.2 | 68.0 | 68.8 | 69.2 | 69.5 | 69.9 | 70.0 | 70.3 | 69.9 | 69.1 | 4.1% |
| Coal | 71.8 | 71.7 | 71.7 | 71.6 | 71.5 | 71.5 | 71.4 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 71.3 | 1.1% |
| Electricity | 7.3 | 7.5 | 7.7 | 7.8 | 7.9 | 8.0 | 8.1 | 8.1 | 8.2 | 8.2 | 8.2 | 8.2 | 8.1 | 4.1% |
| Total | 142.6 | 144.2 | 145.7 | 146.6 | 147.4 | 148.2 | 148.7 | 148.9 | 149.4 | 149.4 | 149.7 | 149.3 | 148.4 | 2.4% |

**Table 24. Refining Industry Energy Consumption**

1/ Fuel consumption includes consumption for combined heat and power.
2/ Includes lubricants and miscellaneous petroleum products.
3/ Where coal-to-liquids (CTL) technology is adopted in the forecast, the plants are assumed to produce oil products and to generate electricity. A portion of the coal use is attributed to feedstock use to produce the liquids. The feedstock portion is assumed to be equal to the Btu content of the liquids produced. The rest of the coal used in CTL plants is accounted for in industrial steam coal consumption, a portion of which is reflected in energy used for end-use sector combined heat and power.
4/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.
5/ May include wood and other biomass, waste heat, municipal solid waste, and renewable sources.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2001 are model results and may differ slightly from official EIA data reports.
Source: 2001 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 25. Food Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 437.69 | 441.09 | 445.40 | 455.93 | 462.27 | 464.51 | 467.13 | 471.90 | 477.86 | 487.34 | 499.25 | 509.37 | 516.95 |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | |
| Residual Oil | 12.5 | 12.6 | 11.1 | 11.3 | 11.4 | 11.3 | 11.2 | 11.2 | 11.2 | 11.4 | 11.6 | 11.7 | 11.8 |
| Distillate Oil | 15.1 | 15.5 | 13.7 | 13.9 | 14.2 | 14.2 | 14.1 | 14.1 | 14.2 | 14.4 | 14.7 | 14.8 | 14.9 |
| Liquefied Petroleum Gas | 4.9 | 4.8 | 5.0 | 5.1 | 5.0 | 5.0 | 5.0 | 5.0 | 5.1 | 5.2 | 5.2 | 5.3 | 5.4 |
| Other Petroleum 2/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Petroleum Subtotal | 32.5 | 32.9 | 29.8 | 30.3 | 30.6 | 30.6 | 30.3 | 30.3 | 30.5 | 30.9 | 31.5 | 31.8 | 32.0 |
| Natural Gas | 551.3 | 550.6 | 563.6 | 571.4 | 577.3 | 577.6 | 578.3 | 580.6 | 583.7 | 590.4 | 599.7 | 607.4 | 611.7 |
| Steam Coal | 157.1 | 157.4 | 153.3 | 154.3 | 153.9 | 153.7 | 153.4 | 153.5 | 153.9 | 154.4 | 155.1 | 155.5 | 155.8 |
| Renewables | 130.0 | 131.4 | 133.3 | 136.9 | 139.5 | 140.9 | 142.4 | 144.7 | 147.3 | 151.1 | 155.6 | 159.6 | 162.9 |
| Purchased Electricity | 216.2 | 216.9 | 216.8 | 221.6 | 223.6 | 223.7 | 223.9 | 225.4 | 227.3 | 230.7 | 235.5 | 239.5 | 242.1 |
| Total | 1087.1 | 1089.1 | 1096.8 | 1114.6 | 1125.0 | 1126.4 | 1128.3 | 1134.6 | 1142.8 | 1157.5 | 1177.4 | 1193.8 | 1204.6 |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | |
| Residual Oil | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Distillate Oil | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Liquefied Petroleum Gas | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Other Petroleum 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Petroleum Subtotal | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Natural Gas | 1.26 | 1.25 | 1.27 | 1.25 | 1.25 | 1.24 | 1.24 | 1.23 | 1.22 | 1.21 | 1.20 | 1.19 | 1.18 |
| Steam Coal | 0.36 | 0.36 | 0.34 | 0.34 | 0.33 | 0.33 | 0.33 | 0.33 | 0.32 | 0.32 | 0.31 | 0.31 | 0.30 |
| Renewables | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.32 |
| Purchased Electricity | 0.49 | 0.49 | 0.49 | 0.49 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.47 | 0.47 | 0.47 | 0.47 |
| Total | 2.48 | 2.47 | 2.46 | 2.44 | 2.43 | 2.42 | 2.42 | 2.40 | 2.39 | 2.38 | 2.36 | 2.34 | 2.33 |
| Carbon Dioxide Emissions 3/ (million metric tons carbon equivalent) | 24.0 | 24.0 | 23.4 | 23.6 | 23.8 | 23.8 | 23.9 | 24.1 | 24.2 | 24.4 | 24.8 | 25.1 | 25.2 |
| Combined Heat and Power 4/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Petroleum | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| Natural Gas | 0.51 | 0.55 | 0.60 | 0.64 | 0.68 | 0.72 | 0.77 | 0.81 | 0.85 | 0.89 | 0.92 | 0.96 | 0.99 |
| Coal | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 |
| Other 5/ | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Total | 1.41 | 1.45 | 1.50 | 1.54 | 1.58 | 1.63 | 1.67 | 1.71 | 1.75 | 1.79 | 1.83 | 1.86 | 1.89 |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Petroleum | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| Natural Gas | 2.08 | 2.36 | 2.72 | 3.00 | 3.31 | 3.64 | 3.95 | 4.24 | 4.54 | 4.83 | 5.10 | 5.34 | 5.58 |
| Coal | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 |
| Other 5/ | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 |
| Total | 5.89 | 6.17 | 6.53 | 6.81 | 7.12 | 7.45 | 7.76 | 8.05 | 8.35 | 8.64 | 8.91 | 9.15 | 9.39 |
| Disposition | | | | | | | | | | | | | |
| Sales to the Grid | 0.30 | 0.44 | 0.61 | 0.75 | 0.91 | 1.07 | 1.23 | 1.38 | 1.53 | 1.67 | 1.80 | 1.92 | 2.04 |
| Generation for Own Use | 5.60 | 5.74 | 5.92 | 6.05 | 6.21 | 6.37 | 6.53 | 6.68 | 6.83 | 6.97 | 7.10 | 7.22 | 7.34 |
| Thermal Output (trillion Btu) | 115.8 | 116.8 | 118.0 | 118.9 | 119.9 | 120.9 | 121.8 | 122.7 | 123.7 | 124.5 | 125.3 | 126.0 | 126.7 |
| Energy Input (trillion Btu) | | | | | | | | | | | | | |
| Petroleum | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| Natural Gas | 64.7 | 67.3 | 70.6 | 73.1 | 76.0 | 78.9 | 81.7 | 84.3 | 87.0 | 89.6 | 91.9 | 94.0 | 96.1 |
| Coal | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 |
| Other 5/ | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 |

**Table 25. Food Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 210.1 | 212.7 | 216.0 | 218.5 | 221.4 | 224.3 | 227.1 | 229.8 | 232.4 | 235.0 | 237.3 | 239.5 | 241.5 |
| Efficiency 6/ | 0.647 | 0.648 | 0.649 | 0.650 | 0.651 | 0.652 | 0.653 | 0.654 | 0.655 | 0.655 | 0.656 | 0.657 | 0.657 |
| Power-to-Heat Ratio 7/ | 0.174 | 0.180 | 0.189 | 0.195 | 0.203 | 0.210 | 0.217 | 0.224 | 0.230 | 0.237 | 0.242 | 0.248 | 0.253 |

**Table 25. Food Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 522.77 | 529.24 | 535.37 | 541.94 | 549.32 | 557.00 | 565.37 | 572.55 | 579.65 | 587.11 | 594.75 | 603.14 | 609.36 | 1.4% |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Residual Oil | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.9 | 12.0 | 12.0 | 12.0 | 12.1 | 12.2 | 12.2 | -0.1% |
| Distillate Oil | 14.9 | 14.9 | 14.9 | 14.9 | 14.8 | 14.8 | 14.9 | 15.0 | 15.1 | 15.2 | 15.3 | 15.4 | 15.4 | 0.0% |
| Liquefied Petroleum Gas | 5.4 | 5.4 | 5.4 | 5.4 | 5.5 | 5.5 | 5.5 | 5.6 | 5.7 | 5.7 | 5.8 | 5.9 | 5.9 | 0.9% |
| Other Petroleum 2/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Petroleum Subtotal | 32.0 | 32.0 | 32.0 | 32.1 | 32.1 | 32.1 | 32.3 | 32.6 | 32.7 | 32.9 | 33.2 | 33.4 | 33.6 | 0.1% |
| Natural Gas | 614.2 | 617.3 | 620.3 | 624.0 | 629.4 | 636.5 | 644.5 | 651.1 | 658.6 | 666.6 | 674.0 | 682.7 | 689.0 | 0.9% |
| Steam Coal | 156.0 | 156.3 | 156.5 | 156.7 | 156.8 | 156.8 | 157.0 | 157.6 | 157.6 | 157.9 | 158.4 | 159.1 | 159.6 | 0.1% |
| Renewables | 165.6 | 168.6 | 171.5 | 174.5 | 177.8 | 181.2 | 184.7 | 187.9 | 191.0 | 194.3 | 197.6 | 201.1 | 203.9 | 1.8% |
| Purchased Electricity | 243.8 | 245.7 | 247.5 | 249.4 | 251.8 | 254.1 | 256.9 | 259.1 | 261.3 | 263.4 | 265.9 | 268.5 | 270.5 | 0.9% |
| Total | 1211.6 | 1219.9 | 1227.8 | 1236.7 | 1247.9 | 1260.7 | 1275.5 | 1288.3 | 1301.3 | 1315.1 | 1329.1 | 1344.7 | 1356.5 | 0.9% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | | |
| Residual Oil | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | -1.5% |
| Distillate Oil | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | -1.4% |
| Liquefied Petroleum Gas | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | -0.5% |
| Other Petroleum 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Petroleum Subtotal | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | -1.3% |
| Natural Gas | 1.17 | 1.17 | 1.16 | 1.15 | 1.15 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.13 | 1.13 | 1.13 | -0.4% |
| Steam Coal | 0.30 | 0.30 | 0.29 | 0.29 | 0.29 | 0.28 | 0.28 | 0.28 | 0.27 | 0.27 | 0.27 | 0.26 | 0.26 | -1.3% |
| Renewables | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.5% |
| Purchased Electricity | 0.47 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.44 | -0.4% |
| Total | 2.32 | 2.31 | 2.29 | 2.28 | 2.27 | 2.26 | 2.26 | 2.25 | 2.24 | 2.24 | 2.23 | 2.23 | 2.23 | -0.4% |
| Carbon Dioxide Emissions 3/ (million metric tons carbon equivalent) | 25.3 | 25.4 | 25.5 | 25.7 | 25.9 | 26.1 | 26.3 | 26.5 | 26.7 | 26.9 | 27.1 | 27.4 | 27.6 | 0.6% |
| Combined Heat and Power 4/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Petroleum | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | N/A |
| Natural Gas | 1.02 | 1.06 | 1.09 | 1.13 | 1.17 | 1.21 | 1.26 | 1.31 | 1.36 | 1.42 | 1.48 | 1.54 | 1.60 | 4.6% |
| Coal | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | N/A |
| Other 5/ | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | N/A |
| Total | 1.93 | 1.96 | 1.99 | 2.03 | 2.07 | 2.12 | 2.16 | 2.21 | 2.27 | 2.33 | 2.38 | 2.45 | 2.50 | 2.3% |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Petroleum | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | N/A |
| Natural Gas | 5.82 | 6.06 | 6.31 | 6.59 | 6.87 | 7.20 | 7.53 | 7.91 | 8.28 | 8.72 | 9.12 | 9.58 | 9.98 | 6.2% |
| Coal | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | 3.38 | N/A |
| Other 5/ | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | N/A |
| Total | 9.63 | 9.87 | 10.12 | 10.40 | 10.68 | 11.01 | 11.34 | 11.72 | 12.09 | 12.53 | 12.93 | 13.39 | 13.79 | 3.4% |
| Disposition | | | | | | | | | | | | | | |
| Sales to the Grid | 2.16 | 2.29 | 2.41 | 2.55 | 2.69 | 2.86 | 3.02 | 3.21 | 3.39 | 3.61 | 3.81 | 4.05 | 4.24 | 9.9% |
| Generation for Own Use | 7.46 | 7.59 | 7.71 | 7.85 | 7.99 | 8.16 | 8.32 | 8.51 | 8.70 | 8.91 | 9.11 | 9.35 | 9.54 | 2.1% |
| Thermal Output (trillion Btu) | 127.4 | 128.1 | 128.8 | 129.6 | 130.4 | 131.3 | 132.2 | 133.2 | 134.2 | 135.3 | 136.4 | 137.5 | 138.5 | 0.7% |
| Energy Input (trillion Btu) | | | | | | | | | | | | | | |
| Petroleum | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | N/A |
| Natural Gas | 98.2 | 100.4 | 102.5 | 104.9 | 107.4 | 110.2 | 113.0 | 116.2 | 119.3 | 123.0 | 126.3 | 130.2 | 133.4 | 2.9% |
| Coal | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | 127.1 | N/A |
| Other 5/ | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | N/A |

**Table 25. Food Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | 243.6 | 245.8 | 247.9 | 250.4 | 252.8 | 255.6 | 258.4 | 261.6 | 264.8 | 268.4 | 271.8 | 275.6 | 278.9 | 1.1% |
| Efficiency 6/ | 0.658 | 0.658 | 0.659 | 0.660 | 0.660 | 0.661 | 0.661 | 0.662 | 0.663 | 0.663 | 0.664 | 0.665 | 0.665 | 0.1% |
| Power-to-Heat Ratio 7/ | 0.258 | 0.263 | 0.268 | 0.274 | 0.279 | 0.286 | 0.293 | 0.300 | 0.307 | 0.316 | 0.323 | 0.332 | 0.340 | 2.7% |

**Table 25. Food Industry Energy Consumption**

1/ Fuel consumption includes consumption for combined heat and power.
2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.
3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.
4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.
5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.
6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.
7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2001 are model results and may differ slightly from official EIA data reports.
Source: 2001 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 26. Paper Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 165.43 | 154.15 | 152.27 | 156.98 | 160.41 | 162.81 | 164.70 | 167.51 | 170.46 | 174.72 | 179.92 | 184.57 | 188.44 |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | |
| Residual Oil | 147.0 | 145.5 | 135.3 | 135.3 | 135.7 | 135.5 | 134.4 | 134.1 | 133.8 | 133.9 | 134.3 | 134.3 | 134.3 |
| Distillate Oil | 9.4 | 9.5 | 9.3 | 9.3 | 9.5 | 9.5 | 9.5 | 9.5 | 9.6 | 9.6 | 9.7 | 9.7 | 9.7 |
| Liquefied Petroleum Gas | 5.5 | 5.2 | 5.4 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.6 | 5.6 | 5.7 | 5.7 | 5.8 |
| Petroleum Subtotal | 162.0 | 160.2 | 150.0 | 150.1 | 150.7 | 150.5 | 149.4 | 149.2 | 148.9 | 149.1 | 149.6 | 149.7 | 149.8 |
| Natural Gas | 535.2 | 516.4 | 529.8 | 536.2 | 541.4 | 545.1 | 548.4 | 551.6 | 554.5 | 558.6 | 562.6 | 566.5 | 568.6 |
| Steam Coal | 285.7 | 284.6 | 281.5 | 282.1 | 281.6 | 281.3 | 281.0 | 280.9 | 281.0 | 281.2 | 281.5 | 281.7 | 281.9 |
| Renewables | 1207.6 | 1131.0 | 1121.2 | 1159.2 | 1188.5 | 1210.4 | 1228.3 | 1253.2 | 1279.6 | 1315.6 | 1358.7 | 1398.4 | 1431.9 |
| Purchased Electricity | 235.5 | 206.6 | 197.3 | 201.8 | 202.3 | 201.2 | 199.2 | 198.9 | 198.7 | 200.2 | 203.6 | 206.1 | 207.6 |
| Total | 2425.9 | 2298.8 | 2279.8 | 2329.4 | 2364.4 | 2388.4 | 2406.3 | 2433.8 | 2462.7 | 2504.7 | 2556.1 | 2602.4 | 2639.8 |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | |
| Residual Oil | 0.89 | 0.94 | 0.89 | 0.86 | 0.85 | 0.83 | 0.82 | 0.80 | 0.78 | 0.77 | 0.75 | 0.73 | 0.71 |
| Distillate Oil | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 |
| Liquefied Petroleum Gas | 0.03 | 0.03 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Petroleum Subtotal | 0.98 | 1.04 | 0.98 | 0.96 | 0.94 | 0.92 | 0.91 | 0.89 | 0.87 | 0.85 | 0.83 | 0.81 | 0.80 |
| Natural Gas | 3.23 | 3.35 | 3.48 | 3.42 | 3.38 | 3.35 | 3.33 | 3.29 | 3.25 | 3.20 | 3.13 | 3.07 | 3.02 |
| Steam Coal | 1.73 | 1.85 | 1.85 | 1.80 | 1.76 | 1.73 | 1.71 | 1.68 | 1.65 | 1.61 | 1.56 | 1.53 | 1.50 |
| Renewables | 7.30 | 7.34 | 7.36 | 7.38 | 7.41 | 7.43 | 7.46 | 7.48 | 7.51 | 7.53 | 7.55 | 7.58 | 7.60 |
| Purchased Electricity | 1.42 | 1.34 | 1.30 | 1.29 | 1.26 | 1.24 | 1.21 | 1.19 | 1.17 | 1.15 | 1.13 | 1.12 | 1.10 |
| Total | 14.66 | 14.91 | 14.97 | 14.84 | 14.74 | 14.67 | 14.61 | 14.53 | 14.45 | 14.34 | 14.21 | 14.10 | 14.01 |
| Carbon Dioxide Emissions 2/ (million metric tons carbon equivalent) | 30.8 | 28.9 | 27.7 | 27.9 | 28.0 | 28.0 | 28.0 | 28.1 | 28.1 | 28.2 | 28.4 | 28.6 | 28.6 |
| Combined Heat and Power 4/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Petroleum | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 |
| Natural Gas | 2.05 | 2.14 | 2.27 | 2.38 | 2.50 | 2.62 | 2.73 | 2.84 | 2.95 | 3.05 | 3.14 | 3.22 | 3.30 |
| Coal | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 |
| Other 5/ | 4.49 | 4.49 | 4.49 | 4.73 | 4.91 | 5.04 | 5.15 | 5.31 | 5.47 | 5.69 | 5.96 | 6.20 | 6.41 |
| Total | 8.82 | 8.91 | 9.05 | 9.39 | 9.69 | 9.94 | 10.17 | 10.43 | 10.69 | 11.02 | 11.37 | 11.70 | 11.99 |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Petroleum | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 |
| Natural Gas | 8.88 | 9.58 | 10.59 | 11.39 | 12.31 | 13.21 | 14.06 | 14.88 | 15.66 | 16.44 | 17.11 | 17.75 | 18.33 |
| Coal | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 |
| Other 5/ | 29.75 | 29.75 | 29.75 | 31.12 | 32.17 | 32.96 | 33.60 | 34.50 | 35.45 | 36.75 | 38.30 | 39.73 | 40.93 |
| Total | 49.68 | 50.38 | 51.39 | 53.56 | 55.52 | 57.22 | 58.72 | 60.43 | 62.16 | 64.23 | 66.46 | 68.52 | 70.31 |
| Disposition | | | | | | | | | | | | | |
| Sales to the Grid | 2.36 | 2.71 | 3.22 | 4.30 | 5.29 | 6.13 | 6.88 | 7.74 | 8.60 | 9.64 | 10.75 | 11.79 | 12.68 |
| Generation for Own Use | 47.31 | 47.67 | 48.17 | 49.25 | 50.24 | 51.08 | 51.83 | 52.69 | 53.55 | 54.59 | 55.70 | 56.74 | 57.63 |
| Thermal Output (trillion Btu) | 1059.3 | 974.9 | 966.3 | 989.2 | 1007.5 | 1021.7 | 1033.5 | 1049.1 | 1065.5 | 1087.2 | 1112.5 | 1135.9 | 1155.7 |
| Energy Input (trillion Btu) | | | | | | | | | | | | | |
| Petroleum | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 |
| Natural Gas | 304.8 | 310.6 | 318.9 | 325.5 | 333.0 | 340.4 | 347.3 | 354.0 | 360.3 | 366.6 | 372.1 | 377.3 | 382.0 |
| Coal | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 |
| Other 5/ | 1238.6 | 1130.8 | 1117.1 | 1160.7 | 1194.4 | 1219.5 | 1240.2 | 1268.7 | 1299.1 | 1340.5 | 1390.0 | 1435.6 | 1474.1 |
| Total | 1929.7 | 1827.8 | 1822.4 | 1872.6 | 1913.7 | 1946.3 | 1973.9 | 2009.1 | 2045.7 | 2093.5 | 2148.5 | 2199.2 | 2242.4 |
| Efficiency 6/ | 0.637 | 0.627 | 0.626 | 0.626 | 0.625 | 0.625 | 0.625 | 0.625 | 0.624 | 0.624 | 0.623 | 0.623 | 0.622 |

**Table 26. Paper Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power-to-Heat Ratio 7/ | 0.160 | 0.176 | 0.181 | 0.185 | 0.188 | 0.191 | 0.194 | 0.197 | 0.199 | 0.202 | 0.204 | 0.206 | 0.208 |

**Table 26. Paper Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 191.96 | 195.58 | 198.58 | 201.26 | 204.21 | 207.44 | 210.84 | 213.67 | 216.27 | 219.45 | 222.56 | 225.93 | 229.06 | 1.7% |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Residual Oil | 134.2 | 133.8 | 133.3 | 132.9 | 132.5 | 132.2 | 132.1 | 132.5 | 132.4 | 132.5 | 132.6 | 132.4 | 132.2 | -0.4% |
| Distillate Oil | 9.7 | 9.7 | 9.7 | 9.7 | 9.6 | 9.6 | 9.6 | 9.7 | 9.7 | 9.7 | 9.7 | 9.7 | 9.8 | 0.1% |
| Liquefied Petroleum Gas | 5.8 | 5.8 | 5.8 | 5.8 | 5.9 | 5.9 | 5.9 | 6.0 | 6.0 | 6.1 | 6.1 | 6.2 | 6.3 | 0.7% |
| Petroleum Subtotal | 149.7 | 149.3 | 148.8 | 148.4 | 148.1 | 147.7 | 147.7 | 148.1 | 148.1 | 148.3 | 148.4 | 148.3 | 148.3 | -0.3% |
| Natural Gas | 570.9 | 573.7 | 576.0 | 578.2 | 581.6 | 587.2 | 593.5 | 599.3 | 605.9 | 614.1 | 621.6 | 631.0 | 639.7 | 0.9% |
| Steam Coal | 281.9 | 281.9 | 281.9 | 281.9 | 281.8 | 281.7 | 281.9 | 282.2 | 282.4 | 282.5 | 282.8 | 282.8 | 282.9 | 0.0% |
| Renewables | 1463.0 | 1495.3 | 1523.2 | 1548.3 | 1575.5 | 1605.1 | 1636.1 | 1663.9 | 1690.7 | 1722.2 | 1753.4 | 1787.0 | 1819.0 | 2.0% |
| Purchased Electricity | 208.4 | 209.5 | 209.6 | 209.3 | 209.3 | 209.5 | 209.9 | 209.7 | 209.3 | 209.3 | 209.4 | 209.5 | 209.8 | 0.1% |
| Total | 2674.0 | 2709.7 | 2739.4 | 2766.0 | 2796.3 | 2831.2 | 2869.1 | 2903.3 | 2936.4 | 2976.4 | 3015.6 | 3058.8 | 3099.6 | 1.3% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | | |
| Residual Oil | 0.70 | 0.68 | 0.67 | 0.66 | 0.65 | 0.64 | 0.63 | 0.62 | 0.61 | 0.60 | 0.60 | 0.59 | 0.58 | -2.0% |
| Distillate Oil | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | -1.5% |
| Liquefied Petroleum Gas | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | -0.9% |
| Petroleum Subtotal | 0.78 | 0.76 | 0.75 | 0.74 | 0.73 | 0.71 | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 | 0.66 | 0.65 | -2.0% |
| Natural Gas | 2.97 | 2.93 | 2.90 | 2.87 | 2.85 | 2.83 | 2.81 | 2.80 | 2.80 | 2.80 | 2.79 | 2.79 | 2.79 | -0.8% |
| Steam Coal | 1.47 | 1.44 | 1.42 | 1.40 | 1.38 | 1.36 | 1.34 | 1.32 | 1.31 | 1.29 | 1.27 | 1.25 | 1.24 | -1.7% |
| Renewables | 7.62 | 7.65 | 7.67 | 7.69 | 7.72 | 7.74 | 7.76 | 7.79 | 7.82 | 7.85 | 7.88 | 7.91 | 7.94 | 0.3% |
| Purchased Electricity | 1.09 | 1.07 | 1.06 | 1.04 | 1.02 | 1.01 | 1.00 | 0.98 | 0.97 | 0.95 | 0.94 | 0.93 | 0.92 | -1.6% |
| Total | 13.93 | 13.85 | 13.80 | 13.74 | 13.69 | 13.65 | 13.61 | 13.59 | 13.58 | 13.56 | 13.55 | 13.54 | 13.53 | -0.4% |
| Carbon Dioxide Emissions 2/ (million metric tons carbon equivalent) | 28.6 | 28.7 | 28.7 | 28.7 | 28.8 | 28.8 | 28.9 | 29.0 | 29.1 | 29.2 | 29.3 | 29.4 | 29.6 | 0.1% |
| Combined Heat and Power 4/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Petroleum | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | N/A |
| Natural Gas | 3.38 | 3.46 | 3.54 | 3.63 | 3.71 | 3.81 | 3.92 | 4.03 | 4.14 | 4.27 | 4.40 | 4.54 | 4.67 | 3.3% |
| Coal | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | N/A |
| Other 5/ | 6.60 | 6.80 | 6.97 | 7.13 | 7.29 | 7.48 | 7.67 | 7.84 | 8.00 | 8.20 | 8.39 | 8.60 | 8.79 | 2.8% |
| Total | 12.26 | 12.54 | 12.79 | 13.03 | 13.29 | 13.57 | 13.86 | 14.15 | 14.43 | 14.75 | 15.07 | 15.42 | 15.75 | 2.4% |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Petroleum | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | 3.45 | N/A |
| Natural Gas | 18.93 | 19.52 | 20.13 | 20.77 | 21.42 | 22.16 | 22.93 | 23.77 | 24.62 | 25.60 | 26.53 | 27.60 | 28.60 | 4.7% |
| Coal | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | 7.60 | N/A |
| Other 5/ | 42.05 | 43.22 | 44.22 | 45.12 | 46.10 | 47.17 | 48.28 | 49.28 | 50.25 | 51.38 | 52.51 | 53.72 | 54.87 | 2.6% |
| Total | 72.03 | 73.79 | 75.40 | 76.94 | 78.57 | 80.38 | 82.27 | 84.10 | 85.92 | 88.03 | 90.09 | 92.37 | 94.51 | 2.7% |
| Disposition | | | | | | | | | | | | | | |
| Sales to the Grid | 13.54 | 14.42 | 15.22 | 15.99 | 16.81 | 17.71 | 18.66 | 19.58 | 20.48 | 21.54 | 22.57 | 23.71 | 24.78 | 9.7% |
| Generation for Own Use | 58.49 | 59.37 | 60.17 | 60.95 | 61.76 | 62.66 | 63.61 | 64.53 | 65.44 | 66.49 | 67.52 | 68.66 | 69.73 | 1.6% |
| Thermal Output (trillion Btu) | 1174.3 | 1193.5 | 1210.2 | 1225.5 | 1241.9 | 1259.9 | 1278.6 | 1295.7 | 1312.3 | 1331.7 | 1350.8 | 1371.5 | 1391.2 | 1.5% |
| Energy Input (trillion Btu) | | | | | | | | | | | | | | |
| Petroleum | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | 117.6 | N/A |
| Natural Gas | 386.9 | 391.6 | 396.5 | 401.6 | 406.8 | 412.8 | 418.9 | 425.6 | 432.3 | 440.0 | 447.3 | 455.7 | 463.5 | 1.7% |
| Coal | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | 268.7 | N/A |
| Other 5/ | 1509.8 | 1547.0 | 1579.0 | 1607.8 | 1639.1 | 1673.1 | 1708.7 | 1740.6 | 1771.5 | 1807.7 | 1843.6 | 1882.1 | 1918.9 | 2.2% |
| Total | 2283.1 | 2325.0 | 2361.8 | 2395.8 | 2432.3 | 2472.3 | 2514.0 | 2552.6 | 2590.1 | 2634.1 | 2677.2 | 2724.2 | 2768.8 | 1.7% |
| Efficiency 6/ | 0.622 | 0.622 | 0.621 | 0.621 | 0.621 | 0.621 | 0.620 | 0.620 | 0.620 | 0.620 | 0.619 | 0.619 | 0.619 | -0.1% |

**Table 26. Paper Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power-to-Heat Ratio 7/ | 0.209 | 0.211 | 0.213 | 0.214 | 0.216 | 0.218 | 0.220 | 0.221 | 0.223 | 0.226 | 0.228 | 0.230 | 0.232 | 1.1% |

**Table 26. Paper Industry Energy Consumption**

1/ Fuel consumption includes consumption for combined heat and power.
2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.
4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.
5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.
6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.
7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2001 are model results and may differ slightly from official EIA data reports.
Source: 2001 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 27. Bulk Chemical Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 205.23 | 192.57 | 190.76 | 196.63 | 199.41 | 199.69 | 202.93 | 208.10 | 213.75 | 220.40 | 227.98 | 235.30 | 241.64 |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | |
| Heat and Power | | | | | | | | | | | | | |
| Residual Oil | 38.5 | 37.1 | 28.3 | 29.3 | 30.1 | 30.0 | 29.8 | 30.6 | 31.5 | 32.7 | 34.2 | 35.5 | 36.6 |
| Distillate Oil | 1.6 | 1.8 | 1.6 | 1.6 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.1 | 2.2 | 2.2 | 2.3 |
| Liquefied Petroleum Gas | 39.2 | 37.6 | 41.0 | 44.4 | 38.7 | 38.1 | 39.1 | 39.6 | 41.1 | 43.2 | 45.1 | 47.1 | 49.2 |
| Other Petroleum 2/ | 701.2 | 635.4 | 588.5 | 612.0 | 615.1 | 608.0 | 611.1 | 625.3 | 641.6 | 662.1 | 688.2 | 711.6 | 731.8 |
| Petroleum Subtotal | 780.4 | 711.9 | 659.4 | 687.4 | 685.8 | 678.0 | 682.0 | 697.5 | 716.2 | 740.0 | 769.8 | 796.3 | 820.0 |
| Natural Gas | 1772.7 | 1676.6 | 1712.6 | 1743.1 | 1768.6 | 1773.6 | 1798.2 | 1831.1 | 1864.5 | 1903.7 | 1942.9 | 1983.5 | 2015.5 |
| Steam Coal | 184.5 | 181.7 | 180.1 | 180.7 | 180.7 | 180.2 | 180.2 | 180.5 | 180.9 | 181.4 | 182.1 | 182.7 | 183.1 |
| Purchased Electricity | 487.1 | 447.4 | 431.6 | 446.2 | 448.0 | 443.2 | 446.2 | 454.8 | 465.2 | 477.5 | 494.2 | 509.0 | 521.5 |
| Total Heat and Power | 3224.7 | 3017.6 | 2983.6 | 3057.6 | 3083.1 | 3074.9 | 3106.6 | 3164.0 | 3226.8 | 3302.7 | 3389.0 | 3471.6 | 3540.0 |
| Feedstock | | | | | | | | | | | | | |
| Liquefied Petroleum Gas | 1802.5 | 1688.2 | 1670.6 | 1718.7 | 1738.0 | 1736.6 | 1760.0 | 1799.4 | 1842.7 | 1894.3 | 1953.5 | 2010.5 | 2059.4 |
| Petrochemical Feedstocks | 1453.8 | 1363.0 | 1348.4 | 1386.8 | 1402.2 | 1401.2 | 1420.0 | 1451.7 | 1486.6 | 1528.3 | 1576.1 | 1622.0 | 1661.5 |
| Natural Gas | 750.2 | 702.6 | 695.1 | 715.0 | 723.0 | 722.5 | 732.2 | 748.7 | 766.7 | 788.1 | 812.7 | 836.3 | 856.7 |
| Total Feedstocks | 4006.5 | 3753.8 | 3714.1 | 3820.5 | 3863.2 | 3860.3 | 3912.2 | 3999.8 | 4096.1 | 4210.8 | 4342.3 | 4468.8 | 4577.6 |
| Total | 7231.2 | 6771.3 | 6697.8 | 6878.1 | 6946.3 | 6935.2 | 7018.8 | 7163.8 | 7322.8 | 7513.5 | 7731.3 | 7940.4 | 8117.7 |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | |
| Heat and Power | | | | | | | | | | | | | |
| Residual Oil | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 |
| Distillate Oil | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Liquefied Petroleum Gas | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Other Petroleum | 3.4 | 3.3 | 3.1 | 3.1 | 3.1 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| Petroleum Subtotal | 3.8 | 3.7 | 3.5 | 3.5 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| Natural Gas | 8.6 | 8.7 | 9.0 | 8.9 | 8.9 | 8.9 | 8.9 | 8.8 | 8.7 | 8.6 | 8.5 | 8.4 | 8.3 |
| Steam Coal | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Purchased Electricity | 2.4 | 2.3 | 2.3 | 2.3 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| Total Heat and Power | 15.7 | 15.7 | 15.6 | 15.5 | 15.5 | 15.4 | 15.3 | 15.2 | 15.1 | 15.0 | 14.9 | 14.8 | 14.6 |
| Feedstock | | | | | | | | | | | | | |
| Liquefied Petroleum Gas | 8.8 | 8.8 | 8.8 | 8.7 | 8.7 | 8.7 | 8.7 | 8.6 | 8.6 | 8.6 | 8.6 | 8.5 | 8.5 |
| Petrochemical Feedstocks | 7.1 | 7.1 | 7.1 | 7.1 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 6.9 | 6.9 | 6.9 | 6.9 |
| Natural Gas | 3.7 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.5 |
| Total Feedstocks | 19.5 | 19.5 | 19.5 | 19.4 | 19.4 | 19.3 | 19.3 | 19.2 | 19.2 | 19.1 | 19.0 | 19.0 | 18.9 |
| Total | 35.2 | 35.2 | 35.1 | 35.0 | 34.8 | 34.7 | 34.6 | 34.4 | 34.3 | 34.1 | 33.9 | 33.7 | 33.6 |
| Carbon Dioxide Emissions 3/ (million metric tons carbon equivalent) | 89.9 | 83.6 | 81.0 | 82.8 | 83.5 | 83.2 | 84.2 | 85.9 | 87.7 | 89.8 | 92.3 | 94.6 | 96.5 |
| Combined Heat and Power 4/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Petroleum | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Natural Gas | 6.96 | 7.04 | 7.24 | 7.39 | 7.59 | 7.79 | 8.00 | 8.22 | 8.43 | 8.65 | 8.82 | 8.99 | 9.14 |
| Coal | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 |
| Other 5/ | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 |
| Total | 8.12 | 8.19 | 8.39 | 8.54 | 8.74 | 8.95 | 9.16 | 9.37 | 9.58 | 9.81 | 9.97 | 10.14 | 10.29 |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Petroleum | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Natural Gas | 43.70 | 44.26 | 45.77 | 46.88 | 48.35 | 49.88 | 51.44 | 53.07 | 54.59 | 56.28 | 57.51 | 58.79 | 59.85 |

**Table 27. Bulk Chemical Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 |
| Other 5/ | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 |
| Total | 53.36 | 53.91 | 55.42 | 56.53 | 58.00 | 59.54 | 61.09 | 62.72 | 64.25 | 65.93 | 67.17 | 68.44 | 69.50 |
| Disposition | | | | | | | | | | | | | |
| Sales to the Grid | 8.93 | 9.21 | 9.97 | 10.52 | 11.26 | 12.02 | 12.80 | 13.61 | 14.38 | 15.22 | 15.84 | 16.47 | 17.00 |
| Generation for Own Use | 44.42 | 44.70 | 45.46 | 46.01 | 46.75 | 47.51 | 48.29 | 49.11 | 49.87 | 50.71 | 51.33 | 51.97 | 52.50 |
| Thermal Output (trillion Btu) | 331.5 | 333.3 | 337.3 | 340.3 | 344.2 | 348.2 | 352.3 | 356.5 | 360.4 | 364.7 | 367.8 | 371.0 | 373.7 |
| Energy Input (trillion Btu) | | | | | | | | | | | | | |
| Petroleum | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 |
| Natural Gas | 601.4 | 606.4 | 619.3 | 628.8 | 641.3 | 654.3 | 667.5 | 681.3 | 694.2 | 708.3 | 718.7 | 729.4 | 738.3 |
| Coal | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 |
| Other 5/ | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 |
| Total | 851.0 | 856.0 | 868.9 | 878.4 | 890.9 | 903.9 | 917.1 | 930.9 | 943.8 | 958.0 | 968.3 | 979.0 | 987.9 |
| Efficiency 6/ | 0.604 | 0.604 | 0.606 | 0.607 | 0.608 | 0.610 | 0.611 | 0.613 | 0.614 | 0.615 | 0.616 | 0.617 | 0.618 |
| Power-to-Heat Ratio 7/ | 0.549 | 0.552 | 0.561 | 0.567 | 0.575 | 0.583 | 0.592 | 0.600 | 0.608 | 0.617 | 0.623 | 0.629 | 0.635 |

**Table 27. Bulk Chemical Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 246.09 | 250.48 | 254.04 | 257.26 | 261.67 | 266.08 | 270.97 | 274.90 | 279.16 | 283.73 | 287.86 | 292.63 | 296.81 | 1.8% |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Heat and Power | | | | | | | | | | | | | | |
| Residual Oil | 37.4 | 37.8 | 38.0 | 38.3 | 38.7 | 38.9 | 39.6 | 40.5 | 41.1 | 41.8 | 42.4 | 42.7 | 43.0 | 0.6% |
| Distillate Oil | 2.3 | 2.2 | 2.2 | 2.3 | 2.2 | 2.1 | 2.1 | 2.2 | 2.1 | 2.1 | 2.1 | 2.2 | 2.2 | 0.7% |
| Liquefied Petroleum Gas | 50.7 | 51.1 | 51.4 | 52.0 | 52.7 | 52.7 | 53.6 | 55.9 | 57.2 | 58.5 | 59.7 | 59.9 | 60.0 | 2.0% |
| Other Petroleum 2/ | 743.6 | 754.0 | 760.9 | 766.8 | 777.0 | 788.2 | 802.7 | 815.4 | 827.9 | 841.3 | 853.4 | 866.1 | 876.9 | 1.4% |
| Petroleum Subtotal | 834.0 | 845.1 | 852.5 | 859.4 | 870.5 | 882.0 | 898.0 | 914.0 | 928.3 | 943.6 | 957.6 | 970.9 | 982.2 | 1.4% |
| Natural Gas | 2038.3 | 2063.3 | 2084.5 | 2103.6 | 2133.0 | 2167.4 | 2202.7 | 2228.9 | 2260.6 | 2296.1 | 2327.9 | 2369.4 | 2406.1 | 1.5% |
| Steam Coal | 183.3 | 183.4 | 183.5 | 183.5 | 183.6 | 183.8 | 184.0 | 184.1 | 184.2 | 184.3 | 184.4 | 184.6 | 184.7 | 0.1% |
| Purchased Electricity | 528.0 | 534.4 | 538.2 | 541.2 | 547.0 | 552.1 | 558.6 | 562.7 | 567.4 | 572.2 | 576.3 | 580.6 | 584.6 | 1.1% |
| Total Heat and Power | 3583.5 | 3626.1 | 3658.7 | 3687.6 | 3734.1 | 3785.3 | 3843.2 | 3889.7 | 3940.5 | 3996.2 | 4046.2 | 4105.5 | 4157.5 | 1.3% |
| Feedstock | | | | | | | | | | | | | | |
| Liquefied Petroleum Gas | 2092.7 | 2125.6 | 2151.7 | 2175.0 | 2208.5 | 2243.3 | 2282.1 | 2313.1 | 2346.7 | 2383.0 | 2415.6 | 2453.5 | 2486.6 | 1.6% |
| Petrochemical Feedstocks | 1688.5 | 1715.0 | 1736.2 | 1755.0 | 1781.8 | 1808.7 | 1838.9 | 1862.9 | 1889.8 | 1918.6 | 1944.5 | 1974.6 | 2000.6 | 1.6% |
| Natural Gas | 870.4 | 884.0 | 894.8 | 904.5 | 918.9 | 933.3 | 949.4 | 962.3 | 976.3 | 991.4 | 1005.0 | 1020.7 | 1034.5 | 1.6% |
| Total Feedstocks | 4651.6 | 4724.6 | 4782.7 | 4834.5 | 4909.2 | 4985.4 | 5070.5 | 5138.4 | 5212.8 | 5292.9 | 5365.0 | 5448.8 | 5521.7 | 1.6% |
| Total | 8235.2 | 8350.7 | 8441.4 | 8522.2 | 8643.3 | 8770.6 | 8913.8 | 9028.0 | 9153.3 | 9289.1 | 9411.3 | 9554.2 | 9679.2 | 1.5% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | | |
| Heat and Power | | | | | | | | | | | | | | |
| Residual Oil | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -1.2% |
| Distillate Oil | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.1% |
| Liquefied Petroleum Gas | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2% |
| Other Petroleum | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | -0.5% |
| Petroleum Subtotal | 3.4 | 3.4 | 3.4 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | -0.5% |
| Natural Gas | 8.3 | 8.2 | 8.2 | 8.2 | 8.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | -0.3% |
| Steam Coal | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | -1.7% |
| Purchased Electricity | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | -0.7% |
| Total Heat and Power | 14.6 | 14.5 | 14.4 | 14.3 | 14.3 | 14.2 | 14.2 | 14.1 | 14.1 | 14.1 | 14.1 | 14.0 | 14.0 | -0.5% |
| Feedstock | | | | | | | | | | | | | | |
| Liquefied Petroleum Gas | 8.5 | 8.5 | 8.5 | 8.5 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | -0.2% |
| Petrochemical Feedstocks | 6.9 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.7 | 6.7 | -0.2% |
| Natural Gas | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | -0.2% |
| Total Feedstocks | 18.9 | 18.9 | 18.8 | 18.8 | 18.8 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.6 | 18.6 | 18.6 | -0.2% |
| Total | 33.5 | 33.3 | 33.2 | 33.1 | 33.0 | 33.0 | 32.9 | 32.8 | 32.8 | 32.7 | 32.7 | 32.6 | 32.6 | -0.3% |
| Carbon Dioxide Emissions 3/ (million metric tons carbon equivalent) | 97.7 | 98.8 | 99.8 | 100.5 | 101.8 | 103.1 | 104.6 | 105.7 | 107.0 | 108.4 | 109.6 | 111.1 | 112.4 | 1.2% |
| Combined Heat and Power 4/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Petroleum | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Natural Gas | 9.29 | 9.43 | 9.59 | 9.75 | 9.92 | 10.12 | 10.33 | 10.55 | 10.77 | 11.02 | 11.27 | 11.56 | 11.84 | 2.2% |
| Coal | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | N/A |
| Other 5/ | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | N/A |
| Total | 10.44 | 10.59 | 10.74 | 10.91 | 11.08 | 11.27 | 11.48 | 11.70 | 11.92 | 12.18 | 12.42 | 12.72 | 12.99 | 1.9% |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Petroleum | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | N/A |
| Natural Gas | 60.97 | 62.05 | 63.20 | 64.40 | 65.65 | 67.10 | 68.63 | 70.24 | 71.88 | 73.75 | 75.55 | 77.71 | 79.72 | 2.5% |

**Table 27. Bulk Chemical Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | N/A |
| Other 5/ | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | 6.33 | N/A |
| Total | 70.62 | 71.70 | 72.85 | 74.05 | 75.30 | 76.75 | 78.28 | 79.89 | 81.53 | 83.40 | 85.20 | 87.36 | 89.37 | 2.1% |
| Disposition | | | | | | | | | | | | | | |
| Sales to the Grid | 17.56 | 18.10 | 18.68 | 19.28 | 19.91 | 20.63 | 21.39 | 22.20 | 23.02 | 23.96 | 24.85 | 25.93 | 26.94 | 4.6% |
| Generation for Own Use | 53.06 | 53.60 | 54.17 | 54.77 | 55.40 | 56.12 | 56.89 | 57.69 | 58.51 | 59.45 | 60.35 | 61.43 | 62.43 | 1.4% |
| Thermal Output (trillion Btu) | 376.5 | 379.2 | 382.1 | 385.0 | 388.0 | 391.4 | 395.0 | 398.8 | 402.5 | 406.8 | 410.8 | 415.6 | 419.9 | 1.0% |
| Energy Input (trillion Btu) | | | | | | | | | | | | | | |
| Petroleum | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | N/A |
| Natural Gas | 747.7 | 756.7 | 766.3 | 776.2 | 786.6 | 798.5 | 811.0 | 824.2 | 837.5 | 852.7 | 867.2 | 884.6 | 900.6 | 1.7% |
| Coal | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 | N/A |
| Other 5/ | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | 138.1 | N/A |
| Total | 997.3 | 1006.3 | 1015.9 | 1025.8 | 1036.2 | 1048.1 | 1060.6 | 1073.8 | 1087.1 | 1102.3 | 1116.8 | 1134.2 | 1150.2 | 1.2% |
| Efficiency 6/ | 0.619 | 0.620 | 0.621 | 0.622 | 0.622 | 0.623 | 0.624 | 0.625 | 0.626 | 0.627 | 0.628 | 0.629 | 0.630 | 0.2% |
| Power-to-Heat Ratio 7/ | 0.640 | 0.645 | 0.651 | 0.656 | 0.662 | 0.669 | 0.676 | 0.684 | 0.691 | 0.700 | 0.708 | 0.717 | 0.726 | 1.1% |

**Table 27. Bulk Chemical Industry Energy Consumption**

1/ Fuel consumption includes consumption for combined heat and power.
2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.
3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.
4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.
5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.
6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.
7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2001 are model results and may differ slightly from official EIA data reports.
Source: 2001 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 28. Glass Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 27.42 | 24.13 | 22.38 | 22.56 | 23.40 | 24.35 | 25.37 | 26.36 | 27.22 | 28.26 | 29.33 | 30.56 | 31.26 |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | |
| Residual Oil | 9.2 | 9.1 | 8.0 | 7.9 | 8.1 | 8.3 | 8.3 | 8.3 | 8.4 | 8.5 | 8.6 | 8.6 | 8.6 |
| Distillate Oil | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Liquefied Petroleum Gas | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Petroleum Subtotal | 9.2 | 9.1 | 8.0 | 7.9 | 8.1 | 8.3 | 8.3 | 8.3 | 8.4 | 8.5 | 8.6 | 8.6 | 8.6 |
| Natural Gas | 164.1 | 142.5 | 132.5 | 132.1 | 135.7 | 139.7 | 143.9 | 147.2 | 149.3 | 152.1 | 154.8 | 158.2 | 159.4 |
| Steam Coal | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| Purchased Electricity | 45.1 | 39.6 | 36.2 | 36.5 | 37.6 | 38.9 | 40.3 | 41.6 | 42.7 | 44.0 | 45.3 | 46.9 | 47.7 |
| Total | 223.1 | 195.9 | 181.4 | 181.3 | 186.1 | 191.7 | 197.2 | 201.8 | 205.1 | 209.2 | 213.4 | 218.5 | 220.4 |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | |
| Residual Oil | 0.33 | 0.38 | 0.36 | 0.35 | 0.35 | 0.34 | 0.33 | 0.32 | 0.31 | 0.30 | 0.29 | 0.28 | 0.28 |
| Distillate Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Petroleum Subtotal | 0.33 | 0.38 | 0.36 | 0.35 | 0.35 | 0.34 | 0.33 | 0.32 | 0.31 | 0.30 | 0.29 | 0.28 | 0.28 |
| Natural Gas | 5.98 | 5.91 | 5.92 | 5.86 | 5.80 | 5.74 | 5.67 | 5.58 | 5.48 | 5.38 | 5.28 | 5.18 | 5.10 |
| Steam Coal | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Purchased Electricity | 1.64 | 1.64 | 1.62 | 1.62 | 1.61 | 1.60 | 1.59 | 1.58 | 1.57 | 1.56 | 1.55 | 1.54 | 1.53 |
| Total | 8.14 | 8.12 | 8.11 | 8.03 | 7.95 | 7.87 | 7.78 | 7.66 | 7.54 | 7.40 | 7.28 | 7.15 | 7.05 |
| Carbon Dioxide Emissions 2/ (million metric tons carbon equivalent) | 5.1 | 4.4 | 4.0 | 4.0 | 4.1 | 4.2 | 4.4 | 4.5 | 4.6 | 4.7 | 4.8 | 4.9 | 4.9 |
| Combined Heat and Power 4/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Petroleum | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Coal | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Other 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Petroleum | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
| Natural Gas | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Coal | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| Other 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 |
| Disposition | | | | | | | | | | | | | |
| Sales to the Grid | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Generation for own use | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 |
| Thermal Output (trillion Btu) | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| Energy Input (trillion Btu) | | | | | | | | | | | | | |
| Petroleum | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| Natural Gas | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| Coal | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| Other 5/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |
| Efficiency 6/ | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 |
| Power-to-Heat Ratio 7/ | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 |

**Table 28. Glass Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 31.76 | 32.41 | 33.00 | 33.53 | 34.06 | 34.65 | 35.51 | 36.30 | 37.05 | 38.01 | 38.90 | 40.00 | 40.90 | 2.2% |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Residual Oil | 8.6 | 8.7 | 8.7 | 8.7 | 8.7 | 8.8 | 8.8 | 8.8 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 0.1% |
| Distillate Oil | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Liquefied Petroleum Gas | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Petroleum Subtotal | 8.6 | 8.7 | 8.7 | 8.7 | 8.7 | 8.8 | 8.8 | 8.8 | 8.8 | 8.9 | 9.0 | 9.1 | 9.2 | 0.1% |
| Natural Gas | 159.7 | 160.5 | 161.0 | 161.5 | 162.7 | 164.4 | 167.0 | 169.5 | 172.0 | 175.2 | 178.1 | 181.7 | 184.7 | 1.1% |
| Steam Coal | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | N/A |
| Purchased Electricity | 48.2 | 48.9 | 49.4 | 49.9 | 50.4 | 50.9 | 51.9 | 52.8 | 53.6 | 54.6 | 55.6 | 56.8 | 57.9 | 1.6% |
| Total | 221.2 | 222.7 | 223.9 | 224.9 | 226.6 | 228.8 | 232.5 | 235.9 | 239.1 | 243.4 | 247.4 | 252.4 | 256.5 | 1.1% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | | |
| Residual Oil | 0.27 | 0.27 | 0.26 | 0.26 | 0.26 | 0.25 | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 | 0.23 | -2.1% |
| Distillate Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Petroleum Subtotal | 0.27 | 0.27 | 0.26 | 0.26 | 0.26 | 0.25 | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 | 0.23 | -2.1% |
| Natural Gas | 5.03 | 4.95 | 4.88 | 4.82 | 4.78 | 4.75 | 4.70 | 4.67 | 4.64 | 4.61 | 4.58 | 4.54 | 4.51 | -1.1% |
| Steam Coal | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -2.2% |
| Purchased Electricity | 1.52 | 1.51 | 1.50 | 1.49 | 1.48 | 1.47 | 1.46 | 1.45 | 1.45 | 1.44 | 1.43 | 1.42 | 1.42 | -0.6% |
| Total | 6.96 | 6.87 | 6.79 | 6.71 | 6.65 | 6.60 | 6.55 | 6.50 | 6.45 | 6.41 | 6.36 | 6.31 | 6.27 | -1.1% |
| Carbon Dioxide Emissions 2/ (million metric tons carbon equivalent) | 4.9 | 5.0 | 5.0 | 5.0 | 5.1 | 5.1 | 5.2 | 5.3 | 5.4 | 5.5 | 5.5 | 5.7 | 5.8 | 1.1% |
| Combined Heat and Power 4/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Petroleum | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Coal | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | N/A |
| Other 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | N/A |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Petroleum | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | N/A |
| Natural Gas | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Coal | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | N/A |
| Other 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | N/A |
| Disposition | | | | | | | | | | | | | | |
| Sales to the Grid | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | N/A |
| Generation for own use | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | N/A |
| Thermal Output (trillion Btu) | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | N/A |
| Energy Input (trillion Btu) | | | | | | | | | | | | | | |
| Petroleum | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | N/A |
| Natural Gas | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | N/A |
| Coal | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | N/A |
| Other 5/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 | N/A |
| Efficiency 6/ | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | 0.682 | N/A |
| Power-to-Heat Ratio 7/ | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | 0.147 | N/A |

**Table 28. Glass Industry Energy Consumption**

1/ Fuel consumption includes consumption for combined heat and power.
2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.
4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.
5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.
6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.
7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2001 are model results and may differ slightly from official EIA data reports.
Source: 2001 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 29. Cement Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 6.33 | 6.03 | 5.70 | 5.74 | 6.09 | 6.19 | 6.18 | 6.42 | 6.69 | 6.81 | 7.03 | 7.16 | 7.34 |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | |
| Residual Oil | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| Distillate Oil | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 |
| Other Petroleum 2/ | 54.5 | 51.7 | 48.8 | 48.5 | 50.7 | 50.9 | 50.3 | 51.4 | 52.7 | 53.0 | 53.9 | 54.3 | 54.9 |
| Petroleum Subtotal | 57.9 | 55.2 | 52.2 | 52.0 | 54.3 | 54.5 | 54.0 | 55.1 | 56.4 | 56.7 | 57.7 | 58.1 | 58.7 |
| Natural Gas | 15.6 | 14.2 | 18.9 | 17.5 | 18.6 | 18.6 | 18.6 | 18.6 | 18.3 | 17.9 | 17.4 | 17.3 | 17.1 |
| Steam Coal | 235.8 | 225.0 | 207.4 | 208.7 | 217.9 | 219.4 | 217.5 | 223.1 | 229.9 | 232.5 | 237.8 | 240.5 | 244.2 |
| Purchased Electricity | 39.2 | 37.0 | 34.9 | 34.9 | 36.8 | 37.1 | 36.8 | 37.9 | 39.1 | 39.4 | 40.4 | 40.9 | 41.5 |
| Total | 348.6 | 331.5 | 313.5 | 313.0 | 327.6 | 329.7 | 326.9 | 334.8 | 343.7 | 346.5 | 353.2 | 356.7 | 361.5 |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | |
| Residual Oil | 0.29 | 0.31 | 0.33 | 0.32 | 0.31 | 0.30 | 0.30 | 0.29 | 0.28 | 0.27 | 0.26 | 0.26 | 0.25 |
| Distillate Oil | 0.25 | 0.27 | 0.28 | 0.27 | 0.28 | 0.29 | 0.29 | 0.28 | 0.28 | 0.27 | 0.27 | 0.26 | 0.26 |
| Other Petroleum 2/ | 8.61 | 8.58 | 8.55 | 8.46 | 8.33 | 8.22 | 8.15 | 8.01 | 7.88 | 7.78 | 7.67 | 7.58 | 7.49 |
| Petroleum Subtotal | 9.15 | 9.16 | 9.16 | 9.05 | 8.92 | 8.81 | 8.73 | 8.58 | 8.43 | 8.33 | 8.20 | 8.10 | 8.00 |
| Natural Gas | 2.47 | 2.36 | 3.32 | 3.04 | 3.05 | 3.01 | 3.02 | 2.90 | 2.74 | 2.62 | 2.48 | 2.41 | 2.34 |
| Steam Coal | 37.25 | 37.33 | 36.36 | 36.37 | 35.80 | 35.45 | 35.19 | 34.75 | 34.37 | 34.14 | 33.84 | 33.56 | 33.28 |
| Purchased Electricity | 6.19 | 6.14 | 6.11 | 6.08 | 6.04 | 6.00 | 5.96 | 5.90 | 5.84 | 5.79 | 5.74 | 5.70 | 5.66 |
| Total | 55.07 | 54.99 | 54.95 | 54.55 | 53.82 | 53.26 | 52.90 | 52.14 | 51.39 | 50.88 | 50.27 | 49.78 | 49.27 |
| Carbon Dioxide Emissions 3/ (million metric tons carbon equivalent) | 9.5 | 9.0 | 8.3 | 8.3 | 8.7 | 8.8 | 8.7 | 8.9 | 9.2 | 9.2 | 9.4 | 9.5 | 9.6 |
| Combined Heat and Power 4/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Coal | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Other 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Petroleum | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Natural Gas | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Coal | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Other 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| Disposition | | | | | | | | | | | | | |
| Sales to the Grid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Generation for Own Use | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| Thermal Output (trillion Btu) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| Energy Input (trillion Btu) | | | | | | | | | | | | | |
| Petroleum | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| Natural Gas | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| Coal | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 |
| Other 5/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| Efficiency 6/ | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 |
| Power-to-Heat Ratio 7/ | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 |

**Table 29. Cement Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 7.49 | 7.62 | 7.72 | 7.78 | 7.85 | 7.90 | 8.01 | 8.04 | 8.16 | 8.17 | 8.25 | 8.27 | 8.30 | 1.3% |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Residual Oil | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | N/A |
| Distillate Oil | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 0.4% |
| Other Petroleum 2/ | 55.4 | 55.8 | 56.0 | 55.9 | 55.9 | 55.9 | 56.4 | 56.5 | 57.0 | 57.0 | 57.3 | 57.3 | 57.3 | 0.4% |
| Petroleum Subtotal | 59.2 | 59.5 | 59.7 | 59.6 | 59.6 | 59.6 | 60.1 | 60.1 | 60.7 | 60.6 | 60.9 | 60.9 | 60.9 | 0.4% |
| Natural Gas | 17.2 | 16.9 | 16.8 | 16.5 | 16.5 | 16.7 | 16.7 | 16.3 | 16.5 | 16.2 | 16.0 | 15.5 | 15.2 | 0.3% |
| Steam Coal | 247.1 | 249.9 | 251.4 | 252.1 | 252.7 | 252.9 | 254.9 | 255.0 | 257.0 | 256.5 | 257.9 | 257.9 | 257.8 | 0.6% |
| Purchased Electricity | 42.0 | 42.5 | 42.7 | 42.8 | 42.9 | 42.9 | 43.3 | 43.1 | 43.5 | 43.4 | 43.5 | 43.4 | 43.4 | 0.7% |
| Total | 365.5 | 368.8 | 370.6 | 371.0 | 371.7 | 372.1 | 375.0 | 374.5 | 377.7 | 376.7 | 378.4 | 377.8 | 377.4 | 0.5% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | | |
| Residual Oil | 0.25 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.22 | 0.22 | -1.3% |
| Distillate Oil | 0.25 | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | -1.0% |
| Other Petroleum 2/ | 7.40 | 7.32 | 7.25 | 7.18 | 7.13 | 7.08 | 7.04 | 7.02 | 6.99 | 6.97 | 6.94 | 6.92 | 6.90 | -0.9% |
| Petroleum Subtotal | 7.90 | 7.81 | 7.73 | 7.66 | 7.60 | 7.54 | 7.50 | 7.48 | 7.44 | 7.42 | 7.39 | 7.36 | 7.34 | -0.9% |
| Natural Gas | 2.29 | 2.22 | 2.17 | 2.12 | 2.11 | 2.11 | 2.09 | 2.02 | 2.02 | 1.99 | 1.94 | 1.88 | 1.84 | -1.0% |
| Steam Coal | 33.00 | 32.78 | 32.56 | 32.39 | 32.21 | 32.02 | 31.81 | 31.72 | 31.50 | 31.40 | 31.26 | 31.17 | 31.06 | -0.8% |
| Purchased Electricity | 5.61 | 5.57 | 5.54 | 5.50 | 5.47 | 5.43 | 5.40 | 5.37 | 5.33 | 5.31 | 5.28 | 5.25 | 5.23 | -0.7% |
| Total | 48.81 | 48.37 | 48.00 | 47.68 | 47.38 | 47.11 | 46.80 | 46.59 | 46.30 | 46.11 | 45.86 | 45.67 | 45.47 | -0.8% |
| Carbon Dioxide Emissions 3/ (million metric tons carbon equivalent) | 9.8 | 9.8 | 9.9 | 9.9 | 9.9 | 9.9 | 10.0 | 10.0 | 10.1 | 10.0 | 10.1 | 10.1 | 10.1 | 0.5% |
| Combined Heat and Power 4/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Natural Gas | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | N/A |
| Coal | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | N/A |
| Other 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | N/A |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Petroleum | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | N/A |
| Natural Gas | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | N/A |
| Coal | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | N/A |
| Other 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | N/A |
| Disposition | | | | | | | | | | | | | | |
| Sales to the Grid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Generation for Own Use | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | N/A |
| Thermal Output (trillion Btu) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | N/A |
| Energy Input (trillion Btu) | | | | | | | | | | | | | | |
| Petroleum | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | N/A |
| Natural Gas | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | N/A |
| Coal | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | 4.8 | N/A |
| Other 5/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | N/A |
| Efficiency 6/ | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | 0.710 | N/A |
| Power-to-Heat Ratio 7/ | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | 0.123 | N/A |

**Table 29. Cement Industry Energy Consumption**

1/ Fuel consumption includes consumption for combined heat and power.
2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.
3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.
4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.
5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.
6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.
7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2001 are model results and may differ slightly from official EIA data reports.
Source: 2001 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 30. Iron and Steel Industries Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 75.45 | 67.48 | 66.04 | 69.59 | 71.41 | 72.19 | 73.90 | 76.01 | 77.62 | 79.77 | 82.31 | 84.78 | 86.31 |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | |
| Distillate Oil | 5.0 | 4.6 | 4.4 | 4.6 | 4.7 | 4.7 | 4.8 | 4.8 | 4.9 | 4.9 | 5.0 | 5.0 | 5.1 |
| Residual Oil | 29.9 | 28.8 | 18.5 | 18.7 | 20.7 | 21.1 | 20.7 | 21.1 | 21.4 | 22.0 | 22.8 | 23.3 | 23.7 |
| Other Petroleum 2/ | 8.1 | 8.0 | 7.9 | 7.8 | 7.7 | 7.6 | 7.5 | 7.4 | 7.3 | 7.2 | 7.1 | 7.0 | 7.0 |
| Petroleum Subtotal | 43.0 | 41.3 | 30.8 | 31.0 | 33.1 | 33.4 | 33.0 | 33.3 | 33.6 | 34.1 | 34.9 | 35.4 | 35.7 |
| Natural Gas | 412.3 | 364.0 | 380.0 | 389.7 | 394.8 | 395.0 | 399.9 | 403.9 | 405.0 | 407.9 | 411.4 | 416.1 | 416.4 |
| Metallurgical Coal | 713.6 | 700.6 | 687.8 | 675.3 | 662.9 | 650.8 | 639.0 | 627.3 | 615.8 | 604.6 | 593.6 | 582.7 | 572.1 |
| Net Coke Imports | 62.0 | 25.1 | 20.1 | 38.7 | 49.2 | 54.9 | 64.9 | 77.0 | 86.6 | 98.8 | 113.0 | 126.7 | 136.1 |
| Steam Coal | 96.7 | 92.6 | 76.3 | 82.3 | 80.4 | 79.4 | 79.1 | 80.9 | 83.1 | 85.7 | 89.2 | 91.7 | 94.0 |
| Coal Subtotal | 872.3 | 818.4 | 784.2 | 796.3 | 792.6 | 785.1 | 783.0 | 785.2 | 785.5 | 789.1 | 795.7 | 801.1 | 802.2 |
| Purchased Electricity | 165.2 | 143.6 | 137.9 | 147.9 | 151.7 | 153.0 | 156.5 | 161.3 | 164.8 | 169.6 | 175.7 | 181.4 | 184.8 |
| Total | 1492.9 | 1367.3 | 1332.9 | 1364.8 | 1372.1 | 1366.5 | 1372.5 | 1383.8 | 1388.9 | 1400.8 | 1417.7 | 1433.9 | 1439.1 |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | |
| Distillate Oil | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Residual Oil | 0.40 | 0.43 | 0.28 | 0.27 | 0.29 | 0.29 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.27 |
| Other Petroleum 2/ | 0.11 | 0.12 | 0.12 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 |
| Petroleum Subtotal | 0.57 | 0.61 | 0.47 | 0.45 | 0.46 | 0.46 | 0.45 | 0.44 | 0.43 | 0.43 | 0.42 | 0.42 | 0.41 |
| Natural Gas | 5.47 | 5.39 | 5.75 | 5.60 | 5.53 | 5.47 | 5.41 | 5.31 | 5.22 | 5.11 | 5.00 | 4.91 | 4.82 |
| Metallurgical Coal | 9.46 | 10.38 | 10.41 | 9.70 | 9.28 | 9.02 | 8.65 | 8.25 | 7.93 | 7.58 | 7.21 | 6.87 | 6.63 |
| Net Coke Imports | 0.82 | 0.37 | 0.30 | 0.56 | 0.69 | 0.76 | 0.88 | 1.01 | 1.12 | 1.24 | 1.37 | 1.49 | 1.58 |
| Steam Coal | 1.28 | 1.37 | 1.15 | 1.18 | 1.13 | 1.10 | 1.07 | 1.06 | 1.07 | 1.07 | 1.08 | 1.08 | 1.09 |
| Coal Subtotal | 11.56 | 12.13 | 11.87 | 11.44 | 11.10 | 10.88 | 10.60 | 10.33 | 10.12 | 9.89 | 9.67 | 9.45 | 9.29 |
| Purchased Electricity | 2.19 | 2.13 | 2.09 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.13 | 2.13 | 2.14 | 2.14 |
| Total | 19.79 | 20.26 | 20.18 | 19.61 | 19.21 | 18.93 | 18.57 | 18.21 | 17.89 | 17.56 | 17.22 | 16.91 | 16.67 |
| Carbon Dioxide Emissions 3/ (million metric tons carbon equivalent) | 37.7 | 34.4 | 32.8 | 33.7 | 33.9 | 33.8 | 34.0 | 34.4 | 34.6 | 34.9 | 35.4 | 35.9 | 36.1 |
| Combined Heat and Power 4/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Petroleum | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Natural Gas | 0.24 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.29 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 |
| Coal | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 |
| Other 5/ | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| Total | 1.80 | 1.81 | 1.82 | 1.82 | 1.84 | 1.85 | 1.86 | 1.87 | 1.88 | 1.90 | 1.91 | 1.91 | 1.92 |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Petroleum | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Natural Gas | 0.76 | 0.79 | 0.87 | 0.93 | 1.02 | 1.11 | 1.20 | 1.29 | 1.38 | 1.46 | 1.54 | 1.61 | 1.67 |
| Coal | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 |
| Other 5/ | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 |
| Total | 7.23 | 7.26 | 7.34 | 7.40 | 7.49 | 7.58 | 7.67 | 7.76 | 7.85 | 7.93 | 8.01 | 8.08 | 8.14 |
| Disposition | | | | | | | | | | | | | |
| Sales to the Grid | 0.72 | 0.72 | 0.73 | 0.74 | 0.74 | 0.75 | 0.76 | 0.77 | 0.78 | 0.79 | 0.80 | 0.80 | 0.81 |
| Generation for Own Use | 6.51 | 6.54 | 6.61 | 6.67 | 6.74 | 6.83 | 6.91 | 6.99 | 7.07 | 7.15 | 7.21 | 7.27 | 7.33 |
| Thermal Output (trillion Btu) | 75.8 | 75.9 | 76.1 | 76.3 | 76.5 | 76.7 | 76.9 | 77.1 | 77.3 | 77.6 | 77.7 | 77.9 | 78.0 |
| Energy Input (trillion Btu) | | | | | | | | | | | | | |
| Petroleum | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| Natural Gas | 22.6 | 22.9 | 23.5 | 24.1 | 24.8 | 25.5 | 26.3 | 27.0 | 27.7 | 28.5 | 29.1 | 29.6 | 30.2 |

**Table 30. Iron and Steel Industries Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 |
| Other 5/ | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 |
| Total | 170.7 | 171.0 | 171.6 | 172.2 | 172.9 | 173.6 | 174.4 | 175.1 | 175.8 | 176.6 | 177.2 | 177.7 | 178.3 |
| Efficiency 6/ | 0.589 | 0.589 | 0.589 | 0.590 | 0.590 | 0.591 | 0.591 | 0.592 | 0.592 | 0.593 | 0.593 | 0.593 | 0.594 |
| Power-to-Heat Ratio 7/ | 0.325 | 0.326 | 0.329 | 0.331 | 0.334 | 0.337 | 0.340 | 0.343 | 0.346 | 0.349 | 0.351 | 0.354 | 0.356 |

**Table 30. Iron and Steel Industries Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 87.17 | 88.02 | 87.85 | 87.46 | 87.74 | 88.16 | 88.74 | 88.30 | 88.28 | 88.84 | 89.20 | 89.88 | 90.22 | 1.2% |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Distillate Oil | 5.0 | 5.0 | 4.9 | 4.9 | 4.8 | 4.8 | 4.8 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 0.1% |
| Residual Oil | 23.8 | 23.9 | 23.6 | 23.3 | 22.9 | 22.6 | 22.4 | 22.4 | 22.1 | 22.0 | 22.0 | 22.1 | 22.1 | -1.1% |
| Other Petroleum 2/ | 6.9 | 6.8 | 6.7 | 6.6 | 6.5 | 6.5 | 6.4 | 6.3 | 6.2 | 6.2 | 6.1 | 6.0 | 5.9 | -1.2% |
| Petroleum Subtotal | 35.7 | 35.6 | 35.2 | 34.7 | 34.3 | 33.8 | 33.6 | 33.5 | 33.0 | 32.8 | 32.8 | 32.9 | 32.7 | -1.0% |
| Natural Gas | 415.0 | 413.8 | 409.3 | 404.1 | 403.1 | 404.3 | 404.8 | 399.6 | 398.5 | 399.3 | 397.9 | 398.5 | 397.8 | 0.4% |
| Metallurgical Coal | 561.7 | 551.4 | 541.3 | 531.5 | 521.8 | 512.2 | 502.9 | 493.7 | 484.7 | 475.9 | 467.2 | 458.7 | 450.3 | -1.8% |
| Net Coke Imports | 142.4 | 148.3 | 149.4 | 149.5 | 152.7 | 156.8 | 161.6 | 161.5 | 163.6 | 168.3 | 172.2 | 177.5 | 181.2 | 8.6% |
| Steam Coal | 95.1 | 96.2 | 96.2 | 96.5 | 96.5 | 96.0 | 96.6 | 98.1 | 98.1 | 98.9 | 100.4 | 101.8 | 102.8 | 0.4% |
| Coal Subtotal | 799.2 | 795.9 | 787.0 | 777.4 | 771.0 | 765.0 | 761.0 | 753.4 | 746.4 | 743.1 | 739.7 | 738.0 | 734.4 | -0.5% |
| Purchased Electricity | 186.5 | 188.2 | 187.5 | 186.2 | 186.5 | 187.1 | 188.2 | 186.9 | 186.7 | 187.6 | 188.4 | 189.7 | 190.5 | 1.2% |
| Total | 1436.4 | 1433.6 | 1418.9 | 1402.4 | 1395.0 | 1390.2 | 1387.6 | 1373.4 | 1364.6 | 1362.8 | 1358.8 | 1359.0 | 1355.4 | 0.0% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | | |
| Distillate Oil | 0.06 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | -1.1% |
| Residual Oil | 0.27 | 0.27 | 0.27 | 0.27 | 0.26 | 0.26 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.24 | -2.3% |
| Other Petroleum 2/ | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | -2.4% |
| Petroleum Subtotal | 0.41 | 0.40 | 0.40 | 0.40 | 0.39 | 0.38 | 0.38 | 0.38 | 0.37 | 0.37 | 0.37 | 0.37 | 0.36 | -2.2% |
| Natural Gas | 4.76 | 4.70 | 4.66 | 4.62 | 4.59 | 4.59 | 4.56 | 4.53 | 4.51 | 4.49 | 4.46 | 4.43 | 4.41 | -0.8% |
| Metallurgical Coal | 6.44 | 6.26 | 6.16 | 6.08 | 5.95 | 5.81 | 5.67 | 5.59 | 5.49 | 5.36 | 5.24 | 5.10 | 4.99 | -3.0% |
| Net Coke Imports | 1.63 | 1.68 | 1.70 | 1.71 | 1.74 | 1.78 | 1.82 | 1.83 | 1.85 | 1.89 | 1.93 | 1.97 | 2.01 | 7.3% |
| Steam Coal | 1.09 | 1.09 | 1.10 | 1.10 | 1.10 | 1.09 | 1.09 | 1.11 | 1.11 | 1.11 | 1.13 | 1.13 | 1.14 | -0.8% |
| Coal Subtotal | 9.17 | 9.04 | 8.96 | 8.89 | 8.79 | 8.68 | 8.58 | 8.53 | 8.45 | 8.36 | 8.29 | 8.21 | 8.14 | -1.6% |
| Purchased Electricity | 2.14 | 2.14 | 2.13 | 2.13 | 2.13 | 2.12 | 2.12 | 2.12 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 0.0% |
| Total | 16.48 | 16.29 | 16.15 | 16.03 | 15.90 | 15.77 | 15.64 | 15.55 | 15.46 | 15.34 | 15.23 | 15.12 | 15.02 | -1.2% |
| Carbon Dioxide Emissions 3/ (million metric tons carbon equivalent) | 36.0 | 36.0 | 35.6 | 35.2 | 35.1 | 34.9 | 34.9 | 34.5 | 34.3 | 34.3 | 34.2 | 34.2 | 34.2 | 0.0% |
| Combined Heat and Power 4/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Petroleum | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | N/A |
| Natural Gas | 0.37 | 0.37 | 0.38 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.44 | 0.46 | 0.47 | 0.48 | 0.49 | 3.0% |
| Coal | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | N/A |
| Other 5/ | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | N/A |
| Total | 1.93 | 1.94 | 1.95 | 1.96 | 1.97 | 1.98 | 1.99 | 2.00 | 2.01 | 2.02 | 2.03 | 2.05 | 2.06 | 0.5% |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Petroleum | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Natural Gas | 1.73 | 1.80 | 1.86 | 1.93 | 1.99 | 2.07 | 2.14 | 2.23 | 2.31 | 2.40 | 2.48 | 2.58 | 2.66 | 5.2% |
| Coal | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | N/A |
| Other 5/ | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | 4.40 | N/A |
| Total | 8.20 | 8.27 | 8.33 | 8.40 | 8.46 | 8.54 | 8.61 | 8.70 | 8.78 | 8.87 | 8.95 | 9.05 | 9.13 | 1.0% |
| Disposition | | | | | | | | | | | | | | |
| Sales to the Grid | 0.81 | 0.82 | 0.83 | 0.83 | 0.84 | 0.85 | 0.86 | 0.86 | 0.87 | 0.88 | 0.89 | 0.90 | 0.91 | 1.0% |
| Generation for Own Use | 7.39 | 7.45 | 7.50 | 7.56 | 7.62 | 7.69 | 7.76 | 7.83 | 7.90 | 7.99 | 8.06 | 8.15 | 8.22 | 1.0% |
| Thermal Output (trillion Btu) | 78.2 | 78.3 | 78.5 | 78.6 | 78.8 | 79.0 | 79.1 | 79.3 | 79.5 | 79.7 | 79.9 | 80.1 | 80.2 | 0.2% |
| Energy Input (trillion Btu) | | | | | | | | | | | | | | |
| Petroleum | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | N/A |
| Natural Gas | 30.7 | 31.2 | 31.7 | 32.3 | 32.8 | 33.4 | 34.0 | 34.7 | 35.3 | 36.1 | 36.7 | 37.5 | 38.2 | 2.2% |

**Table 30. Iron and Steel Industries Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | 24.7 | N/A |
| Other 5/ | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | 122.3 | N/A |
| Total | 178.8 | 179.3 | 179.8 | 180.4 | 180.9 | 181.5 | 182.1 | 182.8 | 183.4 | 184.2 | 184.8 | 185.6 | 186.3 | 0.4% |
| Efficiency 6/ | 0.594 | 0.594 | 0.595 | 0.595 | 0.595 | 0.595 | 0.596 | 0.596 | 0.597 | 0.597 | 0.597 | 0.598 | 0.598 | 0.1% |
| Power-to-Heat Ratio 7/ | 0.358 | 0.360 | 0.362 | 0.364 | 0.366 | 0.369 | 0.371 | 0.374 | 0.377 | 0.380 | 0.382 | 0.386 | 0.388 | 0.7% |

**Table 30. Iron and Steel Industries Energy Consumption**

1/ Fuel consumption includes consumption for combined heat and power.
2/ Includes petroleum coke, lubricants, and miscellaneous petroleum products.
3/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.
4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.
5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.
6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.
7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2001 are model results and may differ slightly from official EIA data reports.
Source: 2001 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 31. Aluminum Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 31.68 | 30.27 | 29.36 | 30.55 | 31.38 | 31.28 | 31.49 | 32.10 | 32.92 | 33.75 | 34.84 | 35.65 | 36.31 |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | |
| Distillate Oil | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 |
| Liquefied Petroleum Gas | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Petroleum Coke | 5.4 | 5.3 | 5.3 | 5.2 | 5.1 | 5.0 | 4.9 | 4.9 | 4.8 | 4.7 | 4.6 | 4.6 | 4.5 |
| Other Petroleum | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Petroleum Subtotal | 5.9 | 5.8 | 5.7 | 5.6 | 5.5 | 5.5 | 5.4 | 5.3 | 5.2 | 5.2 | 5.1 | 5.0 | 5.0 |
| Natural Gas | 165.4 | 157.8 | 152.9 | 154.8 | 155.7 | 153.5 | 152.4 | 152.5 | 152.7 | 152.8 | 153.3 | 153.0 | 152.3 |
| Steam Coal | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 |
| Purchased Electricity | 224.2 | 218.3 | 214.0 | 213.1 | 211.8 | 208.9 | 206.6 | 204.9 | 203.3 | 201.7 | 200.5 | 198.9 | 197.1 |
| Total | 428.2 | 414.6 | 405.3 | 406.3 | 405.8 | 400.7 | 397.2 | 395.4 | 394.0 | 392.4 | 391.6 | 389.7 | 387.1 |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | |
| Distillate Oil | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Petroleum Coke | 0.17 | 0.18 | 0.18 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.13 | 0.13 | 0.12 |
| Other Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Petroleum Subtotal | 0.19 | 0.19 | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 |
| Natural Gas | 5.22 | 5.21 | 5.21 | 5.07 | 4.96 | 4.91 | 4.84 | 4.75 | 4.64 | 4.53 | 4.40 | 4.29 | 4.19 |
| Steam Coal | 1.03 | 1.08 | 1.12 | 1.07 | 1.04 | 1.05 | 1.04 | 1.02 | 1.00 | 0.97 | 0.94 | 0.92 | 0.90 |
| Purchased Electricity | 7.08 | 7.21 | 7.29 | 6.98 | 6.75 | 6.68 | 6.56 | 6.38 | 6.18 | 5.98 | 5.75 | 5.58 | 5.43 |
| Total | 13.52 | 13.70 | 13.80 | 13.30 | 12.93 | 12.81 | 12.61 | 12.32 | 11.97 | 11.63 | 11.24 | 10.93 | 10.66 |
| Carbon Dioxide Emissions 2/ (million metric tons carbon equivalent) | 15.2 | 14.6 | 13.8 | 13.6 | 13.5 | 13.4 | 13.3 | 13.3 | 13.2 | 13.1 | 13.0 | 12.9 | 12.7 |
| Combined Heat and Power 4/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 |
| Coal | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 |
| Other 5/ | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| Total | 0.89 | 0.89 | 0.90 | 0.90 | 0.90 | 0.90 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.92 |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Petroleum | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Natural Gas | 0.25 | 0.26 | 0.27 | 0.28 | 0.30 | 0.32 | 0.33 | 0.35 | 0.36 | 0.38 | 0.39 | 0.40 | 0.41 |
| Coal | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| Other 5/ | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 |
| Total | 4.49 | 4.50 | 4.52 | 4.53 | 4.54 | 4.56 | 4.58 | 4.59 | 4.61 | 4.63 | 4.63 | 4.64 | 4.65 |
| Disposition | | | | | | | | | | | | | |
| Sales to the Grid | 1.45 | 1.45 | 1.46 | 1.46 | 1.47 | 1.47 | 1.48 | 1.49 | 1.49 | 1.50 | 1.50 | 1.50 | 1.50 |
| Generation for Own Use | 3.04 | 3.04 | 3.06 | 3.06 | 3.07 | 3.09 | 3.10 | 3.11 | 3.12 | 3.13 | 3.14 | 3.14 | 3.15 |
| Thermal Output (trillion Btu) | 4.7 | 4.7 | 4.8 | 4.8 | 4.9 | 4.9 | 5.0 | 5.1 | 5.1 | 5.2 | 5.2 | 5.2 | 5.3 |
| Energy Input (trillion Btu) | | | | | | | | | | | | | |
| Petroleum | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Natural Gas | 7.6 | 7.7 | 7.9 | 8.0 | 8.1 | 8.3 | 8.4 | 8.6 | 8.7 | 8.9 | 9.0 | 9.1 | 9.1 |
| Coal | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 |
| Other 5/ | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 |
| Total | 55.3 | 55.4 | 55.5 | 55.6 | 55.8 | 55.9 | 56.1 | 56.3 | 56.4 | 56.6 | 56.7 | 56.7 | 56.8 |
| Efficiency 6/ | 0.362 | 0.363 | 0.364 | 0.365 | 0.366 | 0.367 | 0.368 | 0.369 | 0.369 | 0.370 | 0.371 | 0.372 | 0.372 |

**Table 31. Aluminum Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power-to-Heat Ratio 7/ | 3.258 | 3.248 | 3.216 | 3.198 | 3.172 | 3.145 | 3.120 | 3.094 | 3.073 | 3.051 | 3.038 | 3.025 | 3.017 |

**Table 31. Aluminum Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments (billion 1996 dollars) | 36.98 | 37.70 | 38.19 | 38.55 | 38.98 | 39.45 | 39.88 | 40.09 | 40.39 | 40.92 | 41.36 | 41.87 | 42.53 | 1.4% |
| Energy Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Distillate Oil | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.2% |
| Liquefied Petroleum Gas | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Petroleum Coke | 4.4 | 4.4 | 4.3 | 4.2 | 4.2 | 4.1 | 4.1 | 4.0 | 4.0 | 3.9 | 3.9 | 3.8 | 3.8 | -1.4% |
| Other Petroleum | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Petroleum Subtotal | 4.9 | 4.8 | 4.8 | 4.7 | 4.6 | 4.6 | 4.5 | 4.5 | 4.4 | 4.4 | 4.3 | 4.3 | 4.2 | -1.3% |
| Natural Gas | 151.6 | 151.0 | 149.9 | 148.6 | 148.2 | 148.3 | 148.3 | 148.1 | 148.0 | 148.4 | 148.7 | 149.1 | 149.9 | -0.2% |
| Steam Coal | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | N/A |
| Purchased Electricity | 195.3 | 193.5 | 191.5 | 189.3 | 187.3 | 185.3 | 183.4 | 181.2 | 179.1 | 177.3 | 175.4 | 173.7 | 172.1 | -1.0% |
| Total | 384.5 | 382.0 | 378.9 | 375.4 | 372.9 | 370.9 | 369.0 | 366.5 | 364.3 | 362.9 | 361.2 | 359.8 | 359.0 | -0.6% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | | | | | | | | | | | | | | |
| Distillate Oil | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | -1.2% |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Petroleum Coke | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | -2.8% |
| Other Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Petroleum Subtotal | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | -2.7% |
| Natural Gas | 4.10 | 4.00 | 3.92 | 3.86 | 3.80 | 3.76 | 3.72 | 3.69 | 3.66 | 3.63 | 3.60 | 3.56 | 3.52 | -1.6% |
| Steam Coal | 0.89 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.81 | 0.80 | 0.79 | 0.78 | 0.77 | -1.4% |
| Purchased Electricity | 5.28 | 5.13 | 5.01 | 4.91 | 4.80 | 4.70 | 4.60 | 4.52 | 4.43 | 4.33 | 4.24 | 4.15 | 4.05 | -2.4% |
| Total | 10.40 | 10.13 | 9.92 | 9.74 | 9.57 | 9.40 | 9.25 | 9.14 | 9.02 | 8.87 | 8.73 | 8.59 | 8.44 | -2.0% |
| Carbon Dioxide Emissions 2/ (million metric tons carbon equivalent) | 12.6 | 12.4 | 12.3 | 12.2 | 12.1 | 12.0 | 11.9 | 11.8 | 11.6 | 11.5 | 11.5 | 11.4 | 11.3 | -1.1% |
| Combined Heat and Power 4/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Natural Gas | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 3.3% |
| Coal | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | N/A |
| Other 5/ | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | N/A |
| Total | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.2% |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Petroleum | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | N/A |
| Natural Gas | 0.42 | 0.42 | 0.43 | 0.44 | 0.44 | 0.45 | 0.46 | 0.47 | 0.49 | 0.50 | 0.51 | 0.52 | 0.54 | 3.2% |
| Coal | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | N/A |
| Other 5/ | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | N/A |
| Total | 4.66 | 4.67 | 4.67 | 4.68 | 4.69 | 4.70 | 4.71 | 4.72 | 4.73 | 4.74 | 4.75 | 4.77 | 4.78 | 0.3% |
| Disposition | | | | | | | | | | | | | | |
| Sales to the Grid | 1.51 | 1.51 | 1.51 | 1.51 | 1.52 | 1.52 | 1.52 | 1.53 | 1.53 | 1.53 | 1.54 | 1.54 | 1.55 | 0.3% |
| Generation for Own Use | 3.15 | 3.16 | 3.16 | 3.17 | 3.17 | 3.18 | 3.19 | 3.19 | 3.20 | 3.21 | 3.22 | 3.23 | 3.24 | 0.3% |
| Thermal Output (trillion Btu) | 5.3 | 5.3 | 5.3 | 5.4 | 5.4 | 5.4 | 5.4 | 5.5 | 5.5 | 5.5 | 5.6 | 5.6 | 5.6 | 0.7% |
| Energy Input (trillion Btu) | | | | | | | | | | | | | | |
| Petroleum | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | N/A |
| Natural Gas | 9.2 | 9.3 | 9.3 | 9.4 | 9.5 | 9.6 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.2 | 10.3 | 1.2% |
| Coal | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | N/A |
| Other 5/ | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | 14.8 | N/A |
| Total | 56.9 | 56.9 | 57.0 | 57.1 | 57.1 | 57.2 | 57.3 | 57.4 | 57.5 | 57.6 | 57.7 | 57.8 | 58.0 | 0.2% |
| Efficiency 6/ | 0.372 | 0.373 | 0.373 | 0.374 | 0.374 | 0.375 | 0.375 | 0.376 | 0.376 | 0.377 | 0.377 | 0.378 | 0.379 | 0.2% |

**Table 31. Aluminum Industry Energy Consumption**

| Shipments and Energy Consumption 1/ | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power-to-Heat Ratio 7/ | 3.008 | 3.000 | 2.991 | 2.983 | 2.975 | 2.965 | 2.956 | 2.946 | 2.936 | 2.925 | 2.915 | 2.904 | 2.893 | -0.5% |

**Table 31. Aluminum Industry Energy Consumption**

1/ Fuel consumption includes consumption for combined heat and power.
2/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.
4/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.
5/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.
6/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.
7/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2001 are model results and may differ slightly from official EIA data reports.
Source: 2001 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 32. Other Industrial Sector Energy Consumption**
**(Trillion Btu)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture | | | | | | | | | | | | | |
| Distillate Oil | 466.9 | 469.4 | 471.6 | 471.2 | 472.5 | 473.7 | 476.8 | 483.6 | 493.1 | 501.7 | 509.7 | 517.8 | 524.3 |
| Liquefied Petroleum Gas | 109.6 | 109.6 | 110.2 | 110.2 | 110.5 | 110.8 | 111.6 | 113.3 | 115.5 | 117.5 | 119.4 | 121.2 | 122.7 |
| Motor Gasoline | 94.0 | 93.9 | 94.5 | 94.5 | 94.7 | 95.0 | 95.7 | 97.2 | 99.1 | 100.8 | 102.4 | 104.0 | 105.3 |
| Other Petroleum | 21.7 | 21.7 | 21.9 | 21.9 | 21.9 | 22.0 | 22.1 | 22.5 | 22.9 | 23.3 | 23.7 | 24.1 | 24.4 |
| Petroleum Subtotal | 692.2 | 694.6 | 698.2 | 697.6 | 699.6 | 701.5 | 706.4 | 716.6 | 730.7 | 743.4 | 755.2 | 767.1 | 776.7 |
| Natural Gas | 224.4 | 226.2 | 227.3 | 227.1 | 227.9 | 228.4 | 229.9 | 233.1 | 237.8 | 242.0 | 245.9 | 249.9 | 253.1 |
| Steam Coal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Renewables | 25.3 | 25.7 | 25.9 | 26.0 | 26.2 | 26.4 | 26.7 | 27.2 | 27.9 | 28.6 | 29.2 | 29.8 | 30.4 |
| Purchased Electricity | 173.1 | 172.8 | 173.9 | 173.9 | 174.5 | 175.1 | 176.5 | 179.3 | 182.9 | 186.2 | 189.2 | 192.3 | 194.7 |
| Total | 1114.9 | 1119.3 | 1125.3 | 1124.7 | 1128.1 | 1131.4 | 1139.5 | 1156.2 | 1179.3 | 1200.1 | 1219.6 | 1239.1 | 1254.8 |
| Value of Shipments (billion 1996 dollars) | 282.14 | 281.99 | 284.42 | 285.09 | 286.67 | 288.47 | 291.80 | 297.58 | 304.66 | 311.28 | 317.44 | 323.66 | 328.76 |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | 3.95 | 3.97 | 3.96 | 3.94 | 3.94 | 3.92 | 3.90 | 3.89 | 3.87 | 3.86 | 3.84 | 3.83 | 3.82 |
| Carbon Dioxide Emissions 1/ (million metric tons carbon equivalent) | 25.7 | 25.7 | 25.4 | 25.3 | 25.3 | 25.4 | 25.7 | 26.1 | 26.6 | 27.0 | 27.4 | 27.8 | 28.1 |
| Construction | | | | | | | | | | | | | |
| Distillate Oil | 238.3 | 238.5 | 233.5 | 230.1 | 232.3 | 232.4 | 234.1 | 242.0 | 248.3 | 252.7 | 258.3 | 264.4 | 269.2 |
| Motor Gasoline | 70.9 | 71.0 | 69.5 | 68.5 | 69.2 | 69.2 | 69.7 | 72.1 | 74.0 | 75.3 | 77.0 | 78.8 | 80.2 |
| Asphalt and Road Oil | 1293.2 | 1294.7 | 1267.4 | 1248.8 | 1261.1 | 1261.5 | 1271.1 | 1313.6 | 1348.0 | 1372.1 | 1402.6 | 1435.7 | 1461.9 |
| Petroleum Subtotal | 1602.4 | 1604.2 | 1570.4 | 1547.4 | 1562.6 | 1563.1 | 1575.0 | 1627.6 | 1670.3 | 1700.1 | 1737.9 | 1779.0 | 1811.3 |
| Natural Gas | 268.5 | 268.7 | 263.1 | 259.3 | 261.9 | 262.0 | 264.1 | 272.9 | 280.1 | 285.2 | 291.5 | 298.4 | 303.8 |
| Purchased Electricity | 110.1 | 110.3 | 108.0 | 106.5 | 107.6 | 107.7 | 108.6 | 112.2 | 115.3 | 117.4 | 120.1 | 123.0 | 125.3 |
| Total | 1981.0 | 1983.2 | 1941.5 | 1913.2 | 1932.1 | 1932.8 | 1947.7 | 2012.8 | 2065.7 | 2102.6 | 2149.5 | 2200.3 | 2240.5 |
| Value of Shipments (billion 1996 dollars) | 919.73 | 923.44 | 905.45 | 893.65 | 905.11 | 908.01 | 918.28 | 955.02 | 985.37 | 1007.44 | 1034.80 | 1064.37 | 1088.30 |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | 2.15 | 2.15 | 2.14 | 2.14 | 2.13 | 2.13 | 2.12 | 2.11 | 2.10 | 2.09 | 2.08 | 2.07 | 2.06 |
| Carbon Dioxide Emissions 1/ (million metric tons carbon equivalent) | 15.8 | 15.7 | 15.1 | 14.8 | 15.0 | 15.0 | 15.1 | 15.7 | 16.1 | 16.3 | 16.7 | 17.1 | 17.3 |
| Mining | | | | | | | | | | | | | |
| Residual Oil | 53.0 | 53.1 | 52.6 | 53.3 | 53.5 | 53.6 | 55.0 | 55.3 | 55.8 | 55.9 | 56.0 | 56.4 | 56.8 |
| Distillate Oil | 200.7 | 201.0 | 196.9 | 200.6 | 202.7 | 205.1 | 209.3 | 211.8 | 213.5 | 214.7 | 215.8 | 217.1 | 218.9 |
| Motor Gasoline | 21.5 | 21.5 | 21.3 | 21.6 | 21.7 | 21.7 | 22.3 | 22.4 | 22.6 | 22.7 | 22.7 | 22.8 | 23.0 |
| Other Petroleum | 8.5 | 8.5 | 8.5 | 8.6 | 8.6 | 8.5 | 8.8 | 8.8 | 8.9 | 8.9 | 8.9 | 8.9 | 9.0 |
| Petroleum Subtotal | 283.6 | 284.1 | 279.3 | 284.1 | 286.5 | 289.1 | 295.3 | 298.4 | 300.7 | 302.1 | 303.4 | 305.3 | 307.8 |
| Natural Gas | 776.8 | 747.4 | 773.4 | 785.4 | 791.8 | 794.6 | 812.0 | 816.9 | 823.9 | 827.3 | 829.8 | 835.7 | 843.3 |
| Lease and Plant Fuel | 1160.73 | 1203.17 | 1245.17 | 1298.47 | 1317.21 | 1319.81 | 1331.75 | 1331.91 | 1357.68 | 1373.53 | 1391.23 | 1420.36 | 1450.51 |
| Steam Coal | 159.1 | 157.3 | 155.7 | 159.6 | 162.6 | 165.5 | 168.0 | 169.9 | 171.4 | 172.7 | 173.8 | 175.1 | 177.1 |
| Renewables | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| Purchased Electricity | 214.7 | 214.1 | 211.7 | 215.7 | 217.9 | 219.7 | 224.6 | 226.7 | 228.7 | 229.8 | 230.8 | 232.4 | 234.6 |
| Total | 2596.0 | 2607.1 | 2666.4 | 2744.3 | 2777.2 | 2789.7 | 2832.8 | 2844.9 | 2883.5 | 2906.7 | 2930.1 | 2969.9 | 3014.4 |
| Value of Shipments (billion 1996 dollars) | 139.60 | 140.44 | 138.82 | 141.37 | 142.48 | 143.43 | 147.71 | 149.45 | 151.12 | 152.08 | 152.96 | 154.42 | 156.12 |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | 18.60 | 18.56 | 19.21 | 19.41 | 19.49 | 19.45 | 19.18 | 19.04 | 19.08 | 19.11 | 19.16 | 19.23 | 19.31 |
| Carbon Dioxide Emissions 1/ (million metric tons carbon equivalent) | 32.3 | 31.7 | 31.2 | 31.6 | 31.9 | 32.2 | 33.0 | 33.3 | 33.6 | 33.7 | 33.8 | 34.0 | 34.2 |
| Metal-Based Durables Consumption | | | | | | | | | | | | | |

**Table 32. Other Industrial Sector Energy Consumption**
**(Trillion Btu)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residual Oil | 8.3 | 8.0 | 7.5 | 7.7 | 7.9 | 8.0 | 8.2 | 8.3 | 8.5 | 8.6 | 8.8 | 9.0 | 9.2 |
| Distillate Oil | 24.6 | 25.5 | 21.4 | 22.9 | 25.7 | 26.9 | 28.1 | 29.5 | 30.9 | 32.5 | 34.3 | 35.5 | 37.1 |
| Liquefied Petroleum Gas | 15.1 | 13.8 | 13.4 | 14.4 | 14.6 | 15.1 | 15.9 | 16.4 | 17.1 | 17.9 | 18.6 | 19.4 | 20.2 |
| Petroleum Subtotal | 47.9 | 47.2 | 42.3 | 45.0 | 48.2 | 50.1 | 52.1 | 54.3 | 56.4 | 59.0 | 61.8 | 63.9 | 66.5 |
| Natural Gas | 714.6 | 640.9 | 626.6 | 672.7 | 719.4 | 746.7 | 781.2 | 813.7 | 842.5 | 874.4 | 909.5 | 942.3 | 973.4 |
| Steam Coal | 56.6 | 56.1 | 54.0 | 54.3 | 54.4 | 54.5 | 54.6 | 54.6 | 54.7 | 54.8 | 54.9 | 55.0 | 55.1 |
| Renewables | 49.3 | 45.1 | 43.9 | 48.0 | 51.9 | 54.4 | 57.6 | 60.7 | 63.7 | 67.1 | 70.9 | 74.4 | 78.0 |
| Purchased Electricity | 729.0 | 666.4 | 640.0 | 690.7 | 737.3 | 765.9 | 802.5 | 838.9 | 872.6 | 911.2 | 953.4 | 992.0 | 1030.3 |
| Total | 1597.4 | 1455.8 | 1406.8 | 1510.8 | 1611.3 | 1671.5 | 1747.9 | 1822.2 | 1890.0 | 1966.6 | 2050.6 | 2127.6 | 2203.2 |
| | | | | | | | | | | | | | |
| Value of Shipments (billion 1996 dollars) | 1988.91 | 1810.24 | 1757.12 | 1921.77 | 2079.13 | 2175.79 | 2302.78 | 2423.20 | 2539.85 | 2674.60 | 2821.62 | 2956.52 | 3096.77 |
| Energy Consumption per Unit of Output | | | | | | | | | | | | | |
| (thousand Btu per 1996 dollar shipments) | 0.80 | 0.80 | 0.80 | 0.79 | 0.77 | 0.77 | 0.76 | 0.75 | 0.74 | 0.74 | 0.73 | 0.72 | 0.71 |
| Carbon Dioxide Emissions 1/ | | | | | | | | | | | | | |
| (million metric tons carbon equivalent) | 51.2 | 46.5 | 43.1 | 45.8 | 48.8 | 50.7 | 53.4 | 55.8 | 57.9 | 60.1 | 62.6 | 64.8 | 66.9 |
| | | | | | | | | | | | | | |
| Other Manufacturing Consumption | | | | | | | | | | | | | |
| Residual Oil | 47.1 | 44.4 | 34.1 | 34.7 | 36.2 | 36.5 | 36.3 | 37.0 | 37.6 | 38.6 | 39.9 | 40.9 | 41.9 |
| Distillate Oil | 53.5 | 55.6 | 46.6 | 47.2 | 50.6 | 51.4 | 51.6 | 52.9 | 53.8 | 55.2 | 57.0 | 57.8 | 59.2 |
| Liquefied Petroleum Gas | 30.7 | 28.4 | 29.0 | 30.4 | 28.3 | 28.2 | 28.7 | 29.0 | 29.7 | 30.7 | 31.5 | 32.3 | 33.5 |
| Petroleum Subtotal | 131.3 | 128.4 | 109.6 | 112.3 | 115.0 | 116.2 | 116.5 | 118.9 | 121.2 | 124.5 | 128.3 | 131.0 | 134.6 |
| Natural Gas | 1324.2 | 1206.0 | 1211.6 | 1235.3 | 1261.6 | 1270.8 | 1285.9 | 1311.5 | 1329.3 | 1351.3 | 1380.3 | 1409.4 | 1434.9 |
| Steam Coal | 232.2 | 227.2 | 218.0 | 218.6 | 218.9 | 218.6 | 218.4 | 218.8 | 219.0 | 219.3 | 220.1 | 220.8 | 221.5 |
| Renewables | 302.2 | 281.6 | 277.8 | 285.0 | 291.3 | 294.9 | 300.3 | 308.7 | 315.6 | 324.0 | 334.3 | 344.3 | 354.1 |
| Purchased Electricity | 929.2 | 863.6 | 840.6 | 860.0 | 874.9 | 881.2 | 890.7 | 909.2 | 923.2 | 940.5 | 964.1 | 986.1 | 1006.5 |
| Total | 2919.2 | 2706.9 | 2657.5 | 2711.2 | 2761.7 | 2781.7 | 2811.8 | 2867.1 | 2908.3 | 2959.7 | 3027.2 | 3091.7 | 3151.5 |
| | | | | | | | | | | | | | |
| Value of Shipments (billion 1996 dollars) | 1275.49 | 1182.94 | 1160.96 | 1188.60 | 1213.00 | 1225.95 | 1245.86 | 1277.97 | 1303.67 | 1335.74 | 1375.53 | 1413.63 | 1450.48 |
| Energy Consumption per Unit of Output | | | | | | | | | | | | | |
| (thousand Btu per 1996 dollar shipments) | 2.29 | 2.29 | 2.29 | 2.28 | 2.28 | 2.27 | 2.26 | 2.24 | 2.23 | 2.22 | 2.20 | 2.19 | 2.17 |
| Carbon Dioxide Emissions 1/ | | | | | | | | | | | | | |
| (million metric tons carbon equivalent) | 76.7 | 71.0 | 67.0 | 67.7 | 68.9 | 69.4 | 70.4 | 71.9 | 72.8 | 73.9 | 75.4 | 76.8 | 78.0 |
| | | | | | | | | | | | | | |
| Agriculture, Mining, Construction, Metals | | | | | | | | | | | | | |
| Based Durables, and Other Manufacturing: | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Combined Heat and Power 2/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Petroleum | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| Natural Gas | 0.40 | 0.46 | 0.55 | 0.61 | 0.69 | 0.77 | 0.85 | 0.93 | 1.01 | 1.09 | 1.16 | 1.23 | 1.29 |
| Coal | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 |
| Other 3/ | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 |
| Total | 1.67 | 1.73 | 1.81 | 1.87 | 1.95 | 2.03 | 2.11 | 2.19 | 2.27 | 2.35 | 2.43 | 2.49 | 2.56 |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Petroleum | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| Natural Gas | 1.18 | 1.60 | 2.20 | 2.65 | 3.20 | 3.78 | 4.36 | 4.92 | 5.51 | 6.09 | 6.60 | 7.06 | 7.53 |
| Coal | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 |
| Other 3/ | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 |
| Total | 6.40 | 6.82 | 7.41 | 7.87 | 8.42 | 9.00 | 9.57 | 10.14 | 10.73 | 11.31 | 11.81 | 12.28 | 12.75 |
| Disposition | | | | | | | | | | | | | |
| Sales to the Grid | 1.50 | 1.65 | 1.88 | 2.04 | 2.24 | 2.44 | 2.64 | 2.84 | 3.05 | 3.25 | 3.42 | 3.58 | 3.74 |
| Generation for Own Use | 4.90 | 5.16 | 5.54 | 5.83 | 6.18 | 6.56 | 6.93 | 7.30 | 7.68 | 8.06 | 8.39 | 8.70 | 9.01 |
| Thermal Output (trillion Btu) | 62.9 | 64.6 | 66.8 | 68.5 | 70.5 | 72.6 | 74.7 | 76.7 | 78.7 | 80.7 | 82.4 | 84.0 | 85.5 |
| Energy Input (trillion Btu) | | | | | | | | | | | | | |

**Table 32. Other Industrial Sector Energy Consumption**
**(Trillion Btu)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Petroleum | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Natural Gas | 21.1 | 25.3 | 31.3 | 35.7 | 41.1 | 46.7 | 52.3 | 57.8 | 63.4 | 68.9 | 73.6 | 78.0 | 82.3 |
| Coal | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 |
| Other 3/ | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 |
| Total | 149.5 | 153.8 | 159.7 | 164.2 | 169.6 | 175.2 | 180.8 | 186.2 | 191.9 | 197.4 | 202.1 | 206.4 | 210.8 |
| Efficiency 4/ | 0.567 | 0.571 | 0.577 | 0.581 | 0.585 | 0.590 | 0.594 | 0.598 | 0.601 | 0.605 | 0.607 | 0.610 | 0.612 |
| Power-to-Heat Ratio 5/ | 0.347 | 0.360 | 0.378 | 0.392 | 0.407 | 0.423 | 0.437 | 0.451 | 0.465 | 0.478 | 0.489 | 0.499 | 0.509 |

**Table 32. Other Industrial Sector Energy Consumption**
**(Trillion Btu)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Agriculture | | | | | | | | | | | | | | |
| Distillate Oil | 529.0 | 533.1 | 537.2 | 542.8 | 549.5 | 555.9 | 561.7 | 568.9 | 576.0 | 582.1 | 588.3 | 595.3 | 603.0 | 1.0% |
| Liquefied Petroleum Gas | 123.8 | 124.8 | 125.8 | 127.0 | 128.4 | 129.9 | 131.3 | 132.9 | 134.5 | 135.9 | 137.3 | 138.9 | 140.6 | 1.0% |
| Motor Gasoline | 106.3 | 107.1 | 108.0 | 109.0 | 110.2 | 111.4 | 112.6 | 114.0 | 115.3 | 116.5 | 117.7 | 119.1 | 120.5 | 1.0% |
| Other Petroleum | 24.6 | 24.8 | 25.0 | 25.2 | 25.5 | 25.8 | 26.0 | 26.4 | 26.7 | 26.9 | 27.2 | 27.5 | 27.9 | 1.0% |
| Petroleum Subtotal | 783.7 | 789.7 | 795.9 | 804.0 | 813.6 | 823.0 | 831.6 | 842.2 | 852.4 | 861.4 | 870.6 | 880.7 | 892.0 | 1.0% |
| Natural Gas | 255.4 | 257.4 | 259.5 | 262.0 | 265.2 | 268.4 | 271.2 | 274.8 | 278.3 | 281.3 | 284.4 | 287.9 | 291.9 | 1.1% |
| Steam Coal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Renewables | 30.8 | 31.2 | 31.6 | 32.1 | 32.6 | 33.2 | 33.6 | 34.2 | 34.8 | 35.3 | 35.8 | 36.4 | 37.0 | 1.5% |
| Purchased Electricity | 196.5 | 198.2 | 199.8 | 201.8 | 204.1 | 206.3 | 208.4 | 210.8 | 213.1 | 215.2 | 217.3 | 219.6 | 222.2 | 1.1% |
| Total | 1266.5 | 1276.5 | 1286.9 | 1299.9 | 1315.6 | 1330.8 | 1344.8 | 1361.9 | 1378.6 | 1393.2 | 1408.2 | 1424.7 | 1443.2 | 1.1% |
| Value of Shipments (billion 1996 dollars) | 332.71 | 336.36 | 340.03 | 344.22 | 349.13 | 353.91 | 358.37 | 363.45 | 368.40 | 372.90 | 377.42 | 382.35 | 387.64 | 1.3% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | 3.81 | 3.80 | 3.78 | 3.78 | 3.77 | 3.76 | 3.75 | 3.75 | 3.74 | 3.74 | 3.73 | 3.73 | 3.72 | -0.3% |
| Carbon Dioxide Emissions 1/ (million metric tons carbon equivalent) | 28.3 | 28.5 | 28.8 | 29.0 | 29.4 | 29.7 | 30.0 | 30.3 | 30.7 | 31.0 | 31.3 | 31.6 | 32.1 | 0.9% |
| Construction | | | | | | | | | | | | | | |
| Distillate Oil | 270.9 | 274.9 | 277.9 | 279.8 | 282.0 | 284.0 | 288.4 | 292.8 | 296.2 | 300.1 | 303.3 | 307.5 | 311.8 | 1.1% |
| Motor Gasoline | 80.8 | 82.0 | 82.9 | 83.4 | 84.0 | 84.5 | 85.8 | 87.2 | 88.2 | 89.3 | 90.3 | 91.5 | 92.8 | 1.1% |
| Asphalt and Road Oil | 1471.1 | 1493.0 | 1509.4 | 1519.2 | 1530.6 | 1541.3 | 1564.9 | 1589.1 | 1607.5 | 1628.5 | 1645.2 | 1667.7 | 1691.4 | 1.1% |
| Petroleum Subtotal | 1822.8 | 1849.9 | 1870.2 | 1882.4 | 1896.6 | 1909.8 | 1939.1 | 1969.1 | 1991.9 | 2018.0 | 2038.7 | 2066.7 | 2096.0 | 1.1% |
| Natural Gas | 305.8 | 310.3 | 313.6 | 315.6 | 318.0 | 320.2 | 325.1 | 330.1 | 333.9 | 338.3 | 341.9 | 346.6 | 351.6 | 1.1% |
| Purchased Electricity | 126.1 | 128.1 | 129.6 | 130.4 | 131.4 | 132.2 | 134.2 | 136.2 | 137.7 | 139.5 | 140.8 | 142.7 | 144.7 | 1.1% |
| Total | 2254.7 | 2288.3 | 2313.4 | 2328.4 | 2346.1 | 2362.3 | 2398.4 | 2435.5 | 2463.5 | 2495.8 | 2521.4 | 2556.0 | 2592.3 | 1.1% |
| Value of Shipments (billion 1996 dollars) | 1098.47 | 1119.05 | 1134.91 | 1145.29 | 1156.56 | 1166.67 | 1187.52 | 1208.80 | 1225.23 | 1244.08 | 1259.33 | 1279.43 | 1300.45 | 1.4% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | 2.05 | 2.04 | 2.04 | 2.03 | 2.03 | 2.02 | 2.02 | 2.01 | 2.01 | 2.01 | 2.00 | 2.00 | 1.99 | -0.3% |
| Carbon Dioxide Emissions 1/ (million metric tons carbon equivalent) | 17.4 | 17.7 | 17.9 | 18.0 | 18.1 | 18.2 | 18.5 | 18.8 | 19.0 | 19.2 | 19.4 | 19.7 | 19.9 | 1.0% |
| Mining | | | | | | | | | | | | | | |
| Residual Oil | 57.1 | 57.4 | 57.9 | 58.1 | 58.5 | 59.2 | 60.1 | 60.7 | 61.3 | 62.2 | 62.6 | 63.1 | 63.5 | 0.8% |
| Distillate Oil | 221.0 | 223.5 | 226.1 | 228.4 | 231.4 | 234.7 | 238.2 | 241.0 | 243.6 | 247.3 | 250.3 | 253.6 | 257.3 | 1.0% |
| Motor Gasoline | 23.1 | 23.2 | 23.4 | 23.5 | 23.6 | 23.9 | 24.2 | 24.5 | 24.7 | 25.1 | 25.2 | 25.4 | 25.5 | 0.7% |
| Other Petroleum | 9.0 | 9.0 | 9.1 | 9.1 | 9.1 | 9.2 | 9.3 | 9.4 | 9.5 | 9.6 | 9.6 | 9.7 | 9.6 | 0.5% |
| Petroleum Subtotal | 310.2 | 313.2 | 316.4 | 319.1 | 322.5 | 326.9 | 331.8 | 335.5 | 339.1 | 344.2 | 347.7 | 351.8 | 356.1 | 0.9% |
| Natural Gas | 848.7 | 856.0 | 862.9 | 868.4 | 875.0 | 887.3 | 900.5 | 910.6 | 921.3 | 935.3 | 942.5 | 952.4 | 959.7 | 1.0% |
| Lease and Plant Fuel | 1470.66 | 1492.17 | 1509.77 | 1516.78 | 1523.11 | 1547.84 | 1567.60 | 1587.49 | 1634.49 | 1689.07 | 1702.41 | 1722.84 | 1738.99 | 1.5% |
| Steam Coal | 179.7 | 182.8 | 185.5 | 188.3 | 191.6 | 194.8 | 197.9 | 200.5 | 203.3 | 206.6 | 209.7 | 213.3 | 217.2 | 1.4% |
| Renewables | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 0.6% |
| Purchased Electricity | 236.7 | 239.3 | 241.9 | 244.0 | 246.5 | 250.0 | 253.8 | 256.6 | 259.5 | 263.4 | 265.9 | 269.0 | 271.9 | 1.0% |
| Total | 3047.2 | 3084.6 | 3117.7 | 3137.8 | 3159.8 | 3208.0 | 3252.9 | 3291.9 | 3358.8 | 3439.7 | 3469.4 | 3510.5 | 3545.0 | 1.3% |
| Value of Shipments (billion 1996 dollars) | 157.40 | 159.00 | 160.81 | 162.09 | 163.53 | 166.03 | 168.87 | 170.93 | 172.95 | 175.86 | 177.41 | 179.39 | 181.10 | 1.1% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | 19.36 | 19.40 | 19.39 | 19.36 | 19.32 | 19.32 | 19.26 | 19.26 | 19.42 | 19.56 | 19.56 | 19.57 | 19.58 | 0.2% |
| Carbon Dioxide Emissions 1/ (million metric tons carbon equivalent) | 34.5 | 34.8 | 35.2 | 35.5 | 35.8 | 36.3 | 36.9 | 37.3 | 37.7 | 38.2 | 38.6 | 39.0 | 39.5 | 0.9% |
| Metal-Based Durables Consumption | | | | | | | | | | | | | | |

**Table 32. Other Industrial Sector Energy Consumption**
**(Trillion Btu)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residual Oil | 9.3 | 9.5 | 9.6 | 9.7 | 9.8 | 9.9 | 10.0 | 10.2 | 10.3 | 10.5 | 10.7 | 10.9 | 11.1 | 1.4% |
| Distillate Oil | 38.1 | 38.7 | 39.6 | 40.3 | 40.7 | 41.1 | 41.6 | 43.1 | 43.9 | 45.1 | 46.6 | 48.2 | 49.3 | 2.8% |
| Liquefied Petroleum Gas | 20.9 | 21.5 | 21.9 | 22.3 | 22.8 | 23.2 | 23.8 | 24.6 | 25.1 | 26.0 | 26.9 | 27.8 | 28.6 | 3.1% |
| Petroleum Subtotal | 68.3 | 69.6 | 71.1 | 72.4 | 73.3 | 74.2 | 75.4 | 77.8 | 79.4 | 81.6 | 84.2 | 86.9 | 89.0 | 2.7% |
| Natural Gas | 1002.6 | 1033.0 | 1055.6 | 1074.4 | 1098.2 | 1126.0 | 1156.5 | 1181.8 | 1211.3 | 1249.9 | 1287.1 | 1331.0 | 1366.7 | 3.2% |
| Steam Coal | 55.2 | 55.3 | 55.3 | 55.4 | 55.4 | 55.5 | 55.5 | 55.6 | 55.6 | 55.7 | 55.8 | 55.9 | 56.0 | 0.0% |
| Renewables | 81.6 | 85.1 | 88.0 | 90.6 | 93.4 | 96.5 | 99.9 | 103.0 | 106.3 | 110.5 | 114.7 | 119.5 | 123.4 | 4.3% |
| Purchased Electricity | 1065.9 | 1102.0 | 1130.1 | 1153.9 | 1181.1 | 1210.5 | 1243.9 | 1273.7 | 1305.8 | 1346.6 | 1388.8 | 1436.0 | 1475.7 | 3.4% |
| Total | 2273.5 | 2345.0 | 2400.2 | 2446.6 | 2501.4 | 2562.6 | 2631.3 | 2691.9 | 2758.4 | 2844.3 | 2930.6 | 3029.3 | 3110.9 | 3.2% |
| | | | | | | | | | | | | | | |
| Value of Shipments (billion 1996 dollars) | 3233.18 | 3369.73 | 3478.82 | 3573.89 | 3680.52 | 3795.65 | 3922.37 | 4037.02 | 4161.24 | 4316.27 | 4474.91 | 4653.77 | 4799.06 | 4.1% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | 0.70 | 0.70 | 0.69 | 0.68 | 0.68 | 0.68 | 0.67 | 0.67 | 0.66 | 0.66 | 0.65 | 0.65 | 0.65 | -0.9% |
| Carbon Dioxide Emissions 1/ (million metric tons carbon equivalent) | 68.9 | 70.9 | 72.7 | 74.1 | 75.8 | 77.5 | 79.6 | 81.3 | 83.1 | 85.6 | 88.2 | 91.0 | 93.6 | 3.0% |
| | | | | | | | | | | | | | | |
| Other Manufacturing Consumption | | | | | | | | | | | | | | |
| Residual Oil | 42.8 | 43.5 | 43.9 | 44.4 | 44.9 | 45.4 | 46.3 | 47.4 | 48.0 | 48.8 | 49.7 | 50.5 | 51.1 | 0.6% |
| Distillate Oil | 59.7 | 59.9 | 60.6 | 61.4 | 61.7 | 61.9 | 62.3 | 63.9 | 64.4 | 65.3 | 66.6 | 68.1 | 69.1 | 0.9% |
| Liquefied Petroleum Gas | 34.2 | 34.7 | 35.1 | 35.7 | 36.2 | 36.6 | 37.4 | 38.9 | 39.6 | 40.8 | 41.9 | 42.7 | 43.4 | 1.8% |
| Petroleum Subtotal | 136.6 | 138.1 | 139.7 | 141.5 | 142.8 | 143.9 | 146.0 | 150.1 | 152.0 | 154.9 | 158.2 | 161.3 | 163.7 | 1.0% |
| Natural Gas | 1459.4 | 1487.6 | 1510.3 | 1532.8 | 1563.5 | 1600.0 | 1640.5 | 1672.3 | 1706.6 | 1747.6 | 1784.6 | 1827.2 | 1861.9 | 1.8% |
| Steam Coal | 222.0 | 222.6 | 223.0 | 223.4 | 223.9 | 224.6 | 225.4 | 225.9 | 226.5 | 227.2 | 227.9 | 228.7 | 229.2 | 0.0% |
| Renewables | 363.4 | 373.6 | 382.2 | 390.7 | 400.6 | 411.0 | 422.8 | 432.7 | 442.5 | 453.9 | 464.8 | 476.7 | 486.1 | 2.3% |
| Purchased Electricity | 1024.5 | 1044.4 | 1060.5 | 1075.6 | 1094.1 | 1113.4 | 1136.2 | 1154.2 | 1171.5 | 1192.4 | 1212.5 | 1233.9 | 1251.5 | 1.6% |
| Total | 3206.0 | 3266.3 | 3315.7 | 3364.0 | 3424.9 | 3492.9 | 3571.0 | 3635.2 | 3699.1 | 3776.1 | 3848.0 | 3927.8 | 3992.5 | 1.6% |
| | | | | | | | | | | | | | | |
| Value of Shipments (billion 1996 dollars) | 1485.36 | 1523.19 | 1554.61 | 1585.11 | 1621.10 | 1659.31 | 1702.30 | 1737.21 | 1771.57 | 1812.44 | 1850.74 | 1892.95 | 1926.09 | 2.1% |
| Energy Consumption per Unit of Output (thousand Btu per 1996 dollar shipments) | 2.16 | 2.14 | 2.13 | 2.12 | 2.11 | 2.11 | 2.10 | 2.09 | 2.09 | 2.08 | 2.08 | 2.07 | 2.07 | -0.4% |
| Carbon Dioxide Emissions 1/ (million metric tons carbon equivalent) | 79.1 | 80.3 | 81.5 | 82.6 | 83.9 | 85.3 | 87.1 | 88.3 | 89.5 | 91.2 | 92.7 | 94.4 | 95.9 | 1.3% |
| | | | | | | | | | | | | | | |
| Agriculture, Mining, Construction, Metals Based Durables, and Other Manufacturing: | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Combined Heat and Power 2/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Petroleum | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | N/A |
| Natural Gas | 1.36 | 1.44 | 1.52 | 1.62 | 1.73 | 1.86 | 2.00 | 2.16 | 2.33 | 2.52 | 2.71 | 2.93 | 3.13 | 8.3% |
| Coal | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | N/A |
| Other 3/ | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | N/A |
| Total | 2.63 | 2.70 | 2.79 | 2.89 | 3.00 | 3.13 | 3.27 | 3.43 | 3.59 | 3.79 | 3.97 | 4.19 | 4.40 | 4.0% |
| Net Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Petroleum | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | N/A |
| Natural Gas | 8.03 | 8.58 | 9.18 | 9.89 | 10.65 | 11.59 | 12.58 | 13.71 | 14.87 | 16.26 | 17.58 | 19.15 | 20.59 | 11.2% |
| Coal | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | N/A |
| Other 3/ | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | N/A |
| Total | 13.25 | 13.80 | 14.40 | 15.11 | 15.87 | 16.80 | 17.80 | 18.93 | 20.09 | 21.48 | 22.80 | 24.36 | 25.81 | 5.7% |
| Disposition | | | | | | | | | | | | | | |
| Sales to the Grid | 3.91 | 4.09 | 4.29 | 4.53 | 4.78 | 5.09 | 5.42 | 5.79 | 6.17 | 6.62 | 7.06 | 7.57 | 8.04 | 6.8% |
| Generation for Own Use | 9.34 | 9.71 | 10.11 | 10.58 | 11.09 | 11.72 | 12.38 | 13.14 | 13.92 | 14.85 | 15.74 | 16.80 | 17.77 | 5.3% |
| Thermal Output (trillion Btu) | 87.2 | 88.9 | 90.8 | 93.1 | 95.4 | 98.2 | 101.2 | 104.5 | 107.9 | 111.8 | 115.5 | 119.7 | 123.5 | 2.7% |
| Energy Input (trillion Btu) | | | | | | | | | | | | | | |

**Table 32. Other Industrial Sector Energy Consumption**
**(Trillion Btu)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Petroleum | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | N/A |
| Natural Gas | 86.9 | 92.0 | 97.5 | 103.9 | 110.9 | 119.3 | 128.2 | 138.3 | 148.6 | 160.7 | 172.2 | 185.7 | 198.1 | 9.0% |
| Coal | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | 64.4 | N/A |
| Other 3/ | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | N/A |
| Total | 215.4 | 220.4 | 225.9 | 232.4 | 239.3 | 247.8 | 256.6 | 266.7 | 277.0 | 289.2 | 300.7 | 314.2 | 326.6 | 3.2% |
| Efficiency 4/ | 0.615 | 0.617 | 0.620 | 0.622 | 0.625 | 0.628 | 0.631 | 0.634 | 0.637 | 0.640 | 0.643 | 0.646 | 0.648 | 0.5% |
| Power-to-Heat Ratio 5/ | 0.519 | 0.529 | 0.541 | 0.554 | 0.568 | 0.584 | 0.600 | 0.618 | 0.636 | 0.656 | 0.674 | 0.695 | 0.713 | 2.9% |

**Table 32. Other Industrial Sector Energy Consumption**
**(Trillion Btu)**

1/ Includes emissions attributable to the fuels consumed to generate the purchased electricity.
2/ Includes industrial-owned generators not classified as combined heat and power, such as standby generators.
3/ Includes wood and other biomass, waste heat, municipal solid waste, and renewable sources.
4/ Efficiency is calculated as the sum of the thermal output and electrical generation in Btus divided by the energy input.
5/ Power-to-Heat is calculated as the electrical generation in Btus divided by the thermal output.
Btu = British thermal unit.
Note: Totals may not equal sum of components due to independent rounding. Data for 2001 are model results and may differ slightly from official EIA data reports.
Source: 2001 nonutility and CHP summer capacity, net generation, fuel use, and thermal output: Energy Information Administration (EIA), Form EIA-860: "Annual Electric Generator Report" (preliminary). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 33. Transportation Sector Energy Use by Mode and Type**
**(Trillion Btu)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Use by Mode | | | | | | | | | | | | | |
| Highway | | | | | | | | | | | | | |
| Light-Duty Vehicles | 14951.4 | 15278.8 | 15738.7 | 16065.0 | 16397.9 | 16830.5 | 17304.4 | 17802.9 | 18324.8 | 18837.7 | 19364.2 | 19853.4 | 20321.7 |
| Automobiles | 8995.7 | 8953.7 | 8990.0 | 8950.8 | 8926.3 | 8957.0 | 9010.8 | 9087.0 | 9174.6 | 9261.4 | 9367.6 | 9461.7 | 9559.5 |
| Light Trucks | 5929.9 | 6299.4 | 6722.9 | 7088.6 | 7446.0 | 7847.8 | 8267.6 | 8689.8 | 9123.8 | 9549.6 | 9969.7 | 10364.6 | 10734.7 |
| Motorcycles | 25.8 | 25.7 | 25.8 | 25.7 | 25.6 | 25.7 | 25.9 | 26.1 | 26.4 | 26.6 | 26.9 | 27.2 | 27.5 |
| Commercial Light Trucks 1/ | 634.6 | 603.9 | 596.3 | 613.3 | 631.5 | 645.0 | 663.2 | 685.2 | 707.3 | 730.4 | 755.7 | 779.1 | 801.1 |
| Buses | 247.9 | 257.6 | 258.3 | 259.1 | 260.4 | 262.7 | 265.2 | 267.7 | 270.4 | 273.0 | 275.4 | 277.5 | 279.1 |
| Transit | 97.7 | 101.5 | 101.7 | 102.0 | 102.6 | 103.5 | 104.4 | 105.5 | 106.5 | 107.5 | 108.5 | 109.3 | 109.9 |
| Intercity | 36.0 | 37.5 | 37.6 | 37.7 | 37.9 | 38.2 | 38.6 | 39.0 | 39.3 | 39.7 | 40.1 | 40.4 | 40.6 |
| School | 114.2 | 118.7 | 118.9 | 119.3 | 119.9 | 121.0 | 122.1 | 123.3 | 124.5 | 125.7 | 126.9 | 127.8 | 128.6 |
| Freight Trucks 2/ | 4374.7 | 4322.0 | 4261.3 | 4418.6 | 4572.5 | 4679.8 | 4815.5 | 4975.2 | 5128.2 | 5301.3 | 5491.6 | 5668.1 | 5817.8 |
| Medium (1000-26000 pounds) | 734.4 | 705.0 | 686.6 | 703.3 | 715.1 | 718.8 | 728.3 | 742.8 | 757.7 | 777.2 | 800.7 | 823.7 | 844.9 |
| Large (> 26000 pounds) | 3640.3 | 3617.0 | 3574.7 | 3715.3 | 3857.4 | 3961.1 | 4087.2 | 4232.4 | 4370.5 | 4524.1 | 4691.0 | 4844.4 | 4972.9 |
| Non-Highway | | | | | | | | | | | | | |
| Air 3/ | 3145.9 | 2966.8 | 2887.2 | 2837.1 | 2822.0 | 2899.3 | 2999.0 | 3091.9 | 3199.1 | 3313.2 | 3413.3 | 3517.3 | 3625.4 |
| General Aviation | 190.3 | 181.7 | 177.9 | 175.4 | 174.7 | 178.3 | 183.0 | 187.4 | 192.5 | 197.9 | 202.7 | 207.6 | 212.8 |
| Domestic Air Carriers | 1818.5 | 1735.4 | 1738.0 | 1683.9 | 1668.3 | 1706.1 | 1747.5 | 1791.3 | 1839.2 | 1888.8 | 1925.1 | 1964.2 | 2003.4 |
| International Air Carriers | 633.7 | 596.2 | 630.7 | 621.2 | 618.5 | 633.3 | 651.3 | 668.9 | 689.5 | 709.0 | 725.4 | 741.3 | 759.1 |
| Freight Carriers | 503.3 | 453.5 | 340.6 | 356.6 | 360.5 | 381.6 | 417.1 | 444.3 | 478.0 | 517.6 | 560.2 | 604.2 | 650.2 |
| Water 4/ | 1440.9 | 1432.1 | 1375.2 | 1408.0 | 1413.8 | 1419.3 | 1431.5 | 1440.7 | 1450.0 | 1458.7 | 1468.1 | 1477.9 | 1487.2 |
| Freight | 1124.7 | 1119.0 | 1060.8 | 1092.1 | 1096.6 | 1099.8 | 1109.1 | 1115.4 | 1121.4 | 1126.9 | 1132.6 | 1139.2 | 1145.1 |
| Domestic Shipping | 283.4 | 344.6 | 338.4 | 342.6 | 346.1 | 348.4 | 356.5 | 361.7 | 366.7 | 371.1 | 375.7 | 381.2 | 386.0 |
| International Shipping | 841.3 | 774.4 | 722.5 | 749.4 | 750.5 | 751.4 | 752.6 | 753.6 | 754.7 | 755.8 | 756.9 | 758.0 | 759.1 |
| Recreational Boats | 316.1 | 313.1 | 314.3 | 316.0 | 317.2 | 319.6 | 322.4 | 325.4 | 328.6 | 331.9 | 335.5 | 338.8 | 342.1 |
| Rail | 609.2 | 628.4 | 610.2 | 617.0 | 621.4 | 626.1 | 638.9 | 650.2 | 657.4 | 666.3 | 676.9 | 689.7 | 696.6 |
| Freight | 497.1 | 512.8 | 492.3 | 497.2 | 499.5 | 501.9 | 512.2 | 521.1 | 525.8 | 532.1 | 540.1 | 550.4 | 554.7 |
| Passenger | 112.0 | 115.6 | 117.9 | 119.8 | 121.9 | 124.3 | 126.7 | 129.1 | 131.7 | 134.2 | 136.8 | 139.3 | 141.9 |
| Intercity | 25.7 | 26.8 | 27.3 | 27.7 | 28.2 | 28.7 | 29.3 | 29.9 | 30.5 | 31.0 | 31.6 | 32.2 | 32.8 |
| Transit | 45.6 | 46.4 | 47.4 | 48.2 | 49.0 | 50.0 | 50.9 | 51.9 | 52.9 | 53.9 | 55.0 | 56.0 | 57.0 |
| Commuter | 40.7 | 42.4 | 43.2 | 43.9 | 44.7 | 45.6 | 46.5 | 47.4 | 48.3 | 49.2 | 50.2 | 51.1 | 52.0 |
| Lubricants | 180.0 | 194.0 | 200.0 | 203.3 | 205.2 | 202.4 | 203.7 | 206.2 | 208.3 | 211.5 | 216.0 | 220.4 | 224.5 |
| Pipeline Fuel Natural Gas | 661.8 | 629.9 | 579.9 | 632.9 | 653.5 | 663.0 | 680.3 | 693.8 | 722.9 | 748.4 | 777.4 | 794.9 | 815.0 |
| Military Use | 587.7 | 621.6 | 648.7 | 691.2 | 701.0 | 695.8 | 697.4 | 697.5 | 699.1 | 701.1 | 703.0 | 704.7 | 710.7 |
| Aviation | 476.7 | 501.7 | 518.2 | 552.2 | 560.0 | 555.9 | 557.1 | 557.2 | 558.5 | 560.1 | 561.6 | 562.9 | 567.7 |
| Residual Fuel Use | 17.9 | 18.3 | 19.8 | 21.1 | 21.4 | 21.3 | 21.3 | 21.3 | 21.4 | 21.4 | 21.5 | 21.5 | 21.7 |
| Distillate Fuel Use | 93.2 | 101.7 | 110.7 | 117.9 | 119.6 | 118.7 | 119.0 | 119.0 | 119.3 | 119.6 | 119.9 | 120.2 | 121.3 |
| Total | 26834.1 | 26935.1 | 27155.7 | 27745.7 | 28279.2 | 28924.2 | 29699.1 | 30511.3 | 31367.5 | 32241.7 | 33141.7 | 33983.1 | 34779.0 |
| Energy Use by Type | | | | | | | | | | | | | |
| Motor Gasoline | 16022.5 | 16198.6 | 16557.8 | 16818.9 | 17083.1 | 17447.4 | 17883.7 | 18357.7 | 18851.6 | 19339.0 | 19842.3 | 20309.9 | 20757.0 |
| Distillate (diesel) | 5342.0 | 5442.0 | 5412.0 | 5623.6 | 5826.6 | 5985.9 | 6185.5 | 6401.4 | 6610.0 | 6837.5 | 7082.4 | 7312.6 | 7509.2 |
| Jet Fuel (kerosene & naphtha) | 3580.0 | 3426.0 | 3363.0 | 3346.9 | 3339.6 | 3412.9 | 3513.8 | 3606.9 | 3715.4 | 3831.2 | 3932.8 | 4038.1 | 4151.0 |
| Residual Oil | 888.0 | 836.0 | 787.0 | 814.6 | 816.9 | 818.2 | 821.6 | 824.0 | 826.4 | 828.8 | 831.2 | 833.8 | 836.3 |
| Aviation Gasoline | 42.6 | 42.5 | 42.4 | 42.3 | 42.3 | 42.3 | 42.2 | 42.2 | 42.2 | 42.2 | 42.1 | 42.1 | 42.1 |
| Liquefied Petroleum Gas | 25.9 | 45.0 | 63.6 | 83.2 | 102.6 | 119.6 | 125.3 | 128.9 | 132.5 | 136.3 | 140.7 | 144.8 | 148.5 |
| Lubricants | 180.0 | 194.0 | 200.0 | 203.3 | 205.2 | 202.4 | 203.7 | 206.2 | 208.3 | 211.5 | 216.0 | 220.4 | 224.5 |
| Petroleum Subtotal | 26081.0 | 26184.1 | 26425.8 | 26932.9 | 27416.3 | 28028.7 | 28775.9 | 29567.3 | 30386.4 | 31226.4 | 32087.6 | 32901.6 | 33668.6 |
| Methanol | 0.8 | 0.6 | 0.5 | 0.3 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol | 7.0 | 29.6 | 50.9 | 72.6 | 93.8 | 108.1 | 111.4 | 111.5 | 111.5 | 111.7 | 112.8 | 113.8 | 114.4 |

**Table 33. Transportation Sector Energy Use by Mode and Type**
**(Trillion Btu)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity | 72.1 | 74.0 | 76.2 | 78.0 | 79.7 | 81.9 | 83.9 | 86.0 | 88.2 | 90.6 | 93.1 | 95.8 | 98.5 |
| Compressed Natural Gas | 11.4 | 17.0 | 22.5 | 29.0 | 35.7 | 42.5 | 47.4 | 52.8 | 58.4 | 64.4 | 70.6 | 76.7 | 82.3 |
| Liquid Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 |
| Pipeline Fuel Natural Gas | 661.8 | 629.9 | 579.9 | 632.9 | 653.5 | 663.0 | 680.3 | 693.8 | 722.9 | 748.4 | 777.4 | 794.9 | 815.0 |
| Total Consumption | 26834.1 | 26935.1 | 27155.7 | 27745.7 | 28279.2 | 28924.2 | 29699.1 | 30511.3 | 31367.5 | 32241.7 | 33141.7 | 33983.1 | 34779.0 |

**Table 33. Transportation Sector Energy Use by Mode and Type**
**(Trillion Btu)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Use by Mode | | | | | | | | | | | | | | |
| Highway | | | | | | | | | | | | | | |
| Light-Duty Vehicles | 20782.3 | 21199.5 | 21596.0 | 21975.1 | 22342.8 | 22721.8 | 23124.7 | 23466.8 | 23796.0 | 24146.1 | 24538.5 | 24964.8 | 25362.3 | 2.1% |
| Automobiles | 9663.5 | 9750.3 | 9835.4 | 9922.4 | 10007.6 | 10106.3 | 10222.6 | 10317.6 | 10440.1 | 10577.4 | 10737.1 | 10917.1 | 11088.5 | 0.9% |
| Light Trucks | 11091.0 | 11421.2 | 11732.3 | 12024.2 | 12306.5 | 12586.5 | 12872.7 | 13119.6 | 13325.9 | 13538.4 | 13770.6 | 14016.4 | 14242.0 | 3.5% |
| Motorcycles | 27.8 | 28.0 | 28.3 | 28.5 | 28.7 | 29.0 | 29.4 | 29.6 | 30.0 | 30.4 | 30.8 | 31.4 | 31.8 | 0.9% |
| Commercial Light Trucks 1/ | 820.6 | 839.9 | 855.4 | 868.8 | 883.2 | 898.4 | 915.8 | 930.6 | 944.7 | 961.9 | 979.2 | 999.2 | 1015.7 | 2.2% |
| Buses | 280.4 | 281.1 | 281.4 | 281.4 | 281.3 | 281.2 | 281.3 | 281.3 | 281.5 | 281.8 | 282.6 | 283.7 | 284.7 | 0.4% |
| Transit | 110.4 | 110.7 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.8 | 110.9 | 111.0 | 111.3 | 111.7 | 112.1 | 0.4% |
| Intercity | 40.8 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 40.9 | 41.0 | 41.0 | 41.1 | 41.3 | 41.4 | 0.4% |
| School | 129.2 | 129.5 | 129.6 | 129.6 | 129.6 | 129.5 | 129.6 | 129.6 | 129.6 | 129.8 | 130.2 | 130.6 | 131.1 | 0.4% |
| Freight Trucks 2/ | 5943.7 | 6068.9 | 6165.1 | 6249.8 | 6348.8 | 6452.9 | 6572.1 | 6675.9 | 6787.7 | 6925.5 | 7066.7 | 7229.2 | 7364.7 | 2.2% |
| Medium (1000-26000 pounds) | 864.8 | 886.8 | 906.7 | 926.7 | 949.7 | 974.4 | 1001.4 | 1025.6 | 1050.4 | 1078.4 | 1106.4 | 1137.6 | 1164.5 | 2.1% |
| Large (> 26000 pounds) | 5079.0 | 5182.1 | 5258.4 | 5323.2 | 5399.1 | 5478.6 | 5570.7 | 5650.3 | 5737.3 | 5847.1 | 5960.2 | 6091.6 | 6200.2 | 2.3% |
| Non-Highway | | | | | | | | | | | | | | |
| Air 3/ | 3737.4 | 3851.1 | 3962.7 | 4072.1 | 4183.9 | 4299.0 | 4411.0 | 4517.9 | 4622.8 | 4730.4 | 4839.7 | 4947.6 | 5061.1 | 2.3% |
| General Aviation | 218.1 | 223.5 | 228.8 | 234.0 | 239.3 | 244.8 | 250.1 | 255.2 | 260.2 | 265.3 | 270.5 | 275.7 | 281.1 | 1.8% |
| Domestic Air Carriers | 2043.6 | 2083.1 | 2120.6 | 2155.1 | 2185.6 | 2211.8 | 2233.8 | 2250.9 | 2265.7 | 2274.7 | 2282.0 | 2284.2 | 2285.0 | 1.2% |
| International Air Carriers | 776.6 | 794.1 | 810.5 | 825.4 | 838.5 | 849.9 | 859.7 | 868.7 | 874.5 | 880.4 | 883.3 | 886.6 | 887.0 | 1.7% |
| Freight Carriers | 699.1 | 750.4 | 802.8 | 857.6 | 920.5 | 992.5 | 1067.4 | 1143.2 | 1222.4 | 1309.9 | 1403.8 | 1501.1 | 1608.0 | 5.4% |
| Water 4/ | 1495.4 | 1504.8 | 1513.9 | 1522.2 | 1531.3 | 1542.1 | 1554.1 | 1563.5 | 1572.8 | 1584.1 | 1593.7 | 1604.5 | 1614.3 | 0.5% |
| Freight | 1149.9 | 1155.7 | 1161.4 | 1166.2 | 1171.9 | 1179.2 | 1187.5 | 1193.6 | 1200.0 | 1208.2 | 1214.4 | 1221.6 | 1227.9 | 0.4% |
| Domestic Shipping | 389.6 | 394.3 | 398.7 | 402.5 | 407.0 | 413.1 | 420.1 | 425.0 | 430.2 | 437.2 | 442.1 | 448.0 | 453.2 | 1.1% |
| International Shipping | 760.3 | 761.4 | 762.6 | 763.7 | 764.9 | 766.1 | 767.4 | 768.6 | 769.8 | 771.0 | 772.3 | 773.5 | 774.7 | 0.0% |
| Recreational Boats | 345.5 | 349.1 | 352.6 | 356.0 | 359.4 | 362.9 | 366.6 | 369.8 | 372.7 | 375.8 | 379.3 | 383.0 | 386.4 | 0.9% |
| Rail | 702.1 | 707.6 | 713.5 | 721.1 | 727.7 | 733.1 | 740.3 | 745.4 | 749.2 | 755.9 | 762.6 | 769.2 | 776.6 | 0.9% |
| Freight | 557.6 | 560.6 | 563.9 | 568.9 | 572.9 | 575.7 | 580.0 | 582.5 | 583.7 | 587.6 | 591.5 | 595.1 | 599.5 | 0.7% |
| Passenger | 144.5 | 147.0 | 149.6 | 152.1 | 154.7 | 157.4 | 160.2 | 162.9 | 165.6 | 168.3 | 171.1 | 174.1 | 177.0 | 1.8% |
| Intercity | 33.4 | 34.0 | 34.6 | 35.2 | 35.8 | 36.4 | 37.1 | 37.7 | 38.3 | 38.9 | 39.6 | 40.3 | 41.0 | 1.8% |
| Transit | 58.1 | 59.1 | 60.1 | 61.2 | 62.2 | 63.3 | 64.4 | 65.5 | 66.5 | 67.6 | 68.8 | 70.0 | 71.2 | 1.8% |
| Commuter | 53.0 | 53.9 | 54.9 | 55.8 | 56.7 | 57.7 | 58.8 | 59.7 | 60.7 | 61.7 | 62.8 | 63.9 | 64.9 | 1.8% |
| Lubricants | 228.7 | 233.6 | 238.1 | 242.5 | 247.0 | 251.0 | 255.0 | 258.2 | 261.2 | 264.8 | 268.3 | 272.7 | 276.3 | 1.5% |
| Pipeline Fuel Natural Gas | 826.2 | 838.6 | 848.1 | 854.0 | 859.3 | 875.7 | 891.0 | 908.1 | 945.1 | 985.5 | 997.3 | 1011.6 | 1021.9 | 2.0% |
| Military Use | 719.3 | 728.1 | 736.9 | 745.8 | 754.7 | 763.8 | 772.9 | 782.1 | 791.3 | 800.7 | 810.1 | 819.6 | 829.2 | 1.2% |
| Aviation | 574.6 | 581.6 | 588.6 | 595.7 | 602.9 | 610.1 | 617.4 | 624.7 | 632.1 | 639.6 | 647.1 | 654.7 | 662.4 | 1.2% |
| Residual Fuel Use | 22.0 | 22.2 | 22.5 | 22.8 | 23.1 | 23.3 | 23.6 | 23.9 | 24.2 | 24.5 | 24.8 | 25.0 | 25.3 | 1.4% |
| Distillate Fuel Use | 122.7 | 124.2 | 125.7 | 127.2 | 128.8 | 130.3 | 131.9 | 133.4 | 135.0 | 136.6 | 138.2 | 139.8 | 141.5 | 1.4% |
| Total | 35536.2 | 36253.2 | 36911.0 | 37532.7 | 38159.9 | 38819.1 | 39518.3 | 40129.7 | 40752.1 | 41436.6 | 42138.8 | 42901.9 | 43606.8 | 2.0% |
| Energy Use by Type | | | | | | | | | | | | | | |
| Motor Gasoline | 21195.2 | 21590.3 | 21963.5 | 22319.4 | 22660.4 | 23018.5 | 23403.2 | 23726.1 | 24041.6 | 24381.6 | 24762.8 | 25178.6 | 25559.6 | 1.9% |
| Distillate (diesel) | 7679.6 | 7848.8 | 7987.0 | 8113.1 | 8257.4 | 8403.1 | 8566.8 | 8710.3 | 8855.8 | 9030.5 | 9209.1 | 9411.2 | 9588.7 | 2.4% |
| Jet Fuel (kerosene & naphtha) | 4270.0 | 4390.6 | 4509.2 | 4625.7 | 4744.7 | 4867.1 | 4986.3 | 5100.6 | 5212.8 | 5327.9 | 5444.7 | 5560.2 | 5681.4 | 2.1% |
| Residual Oil | 838.7 | 841.4 | 844.0 | 846.3 | 848.9 | 852.1 | 855.5 | 858.3 | 861.1 | 864.5 | 867.3 | 870.4 | 873.3 | 0.2% |
| Aviation Gasoline | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 0.0% |
| Liquefied Petroleum Gas | 151.7 | 155.2 | 158.4 | 161.4 | 164.6 | 167.1 | 169.3 | 170.8 | 171.7 | 172.9 | 174.4 | 175.9 | 178.2 | 5.9% |
| Lubricants | 228.7 | 233.6 | 238.1 | 242.5 | 247.0 | 251.0 | 255.0 | 258.2 | 261.2 | 264.8 | 268.3 | 272.7 | 276.3 | 1.5% |
| Petroleum Subtotal | 34406.0 | 35102.0 | 35742.3 | 36350.6 | 36965.0 | 37600.9 | 38278.2 | 38866.3 | 39446.2 | 40084.4 | 40768.8 | 41511.1 | 42199.6 | 2.0% |
| Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -20.7% |
| Ethanol | 115.1 | 116.2 | 117.3 | 118.3 | 119.1 | 119.5 | 119.7 | 119.3 | 118.6 | 118.0 | 117.5 | 117.3 | 117.1 | 5.9% |

**Table 33. Transportation Sector Energy Use by Mode and Type**
**(Trillion Btu)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity | 101.2 | 103.9 | 106.7 | 109.5 | 112.7 | 116.1 | 119.4 | 123.2 | 127.1 | 130.9 | 134.8 | 138.7 | 142.4 | 2.8% |
| Compressed Natural Gas | 87.3 | 92.0 | 96.1 | 99.7 | 103.1 | 106.2 | 109.2 | 111.9 | 114.2 | 116.7 | 119.1 | 121.6 | 123.8 | 8.6% |
| Liquid Hydrogen | 0.3 | 0.4 | 0.5 | 0.6 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 | 1.2 | 1.4 | 1.7 | 2.0 | N/A |
| Pipeline Fuel Natural Gas | 826.2 | 838.6 | 848.1 | 854.0 | 859.3 | 875.7 | 891.0 | 908.1 | 945.1 | 985.5 | 997.3 | 1011.6 | 1021.9 | 2.0% |
| Total Consumption | 35536.2 | 36253.2 | 36911.0 | 37532.7 | 38159.9 | 38819.1 | 39518.3 | 40129.8 | 40752.1 | 41436.6 | 42138.8 | 42901.9 | 43606.8 | 2.0% |

**Table 33. Transportation Sector Energy Use by Mode and Type**
**(Trillion Btu)**

1/ Commercial light trucks from 8,500 to 10,000 pounds.
2/ Does not include commercial bus and military use.
3/ Does not include military jet fuel use.
4/ Does not include military residual oil.
Btu = British thermal unit.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 values derived using: Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002); EIA, Fuel Oil and Kerosene Sales 2001, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/foks.html; EIA, State Energy Data Report 1999, DOE/EIA-0214(99) (Washington, DC, May 2001); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 22 and Annual (Oak Ridge, TN, September 2002); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode**
**(Trillion Btu)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Light-Duty Vehicle | | | | | | | | | | | | | |
| Motor Gasoline | 14794.47 | 15035.10 | 15416.13 | 15661.78 | 15913.59 | 16271.99 | 16695.25 | 17150.77 | 17625.86 | 18091.92 | 18569.89 | 19013.85 | 19438.40 |
| Ethanol | 6.99 | 29.55 | 50.88 | 72.63 | 93.78 | 108.06 | 111.44 | 111.46 | 111.46 | 111.70 | 112.83 | 113.80 | 114.41 |
| Compressed Natural Gas | 10.34 | 15.62 | 20.63 | 26.29 | 31.47 | 36.17 | 38.52 | 40.86 | 43.12 | 45.34 | 47.75 | 50.01 | 52.08 |
| Liquefied Petroleum Gas | 16.61 | 36.74 | 55.98 | 75.79 | 95.33 | 112.36 | 118.04 | 121.37 | 124.52 | 127.84 | 131.78 | 135.40 | 138.71 |
| Electricity | 0.70 | 1.32 | 1.90 | 2.48 | 2.98 | 3.58 | 4.09 | 4.63 | 5.27 | 6.10 | 6.96 | 8.06 | 9.16 |
| Liquid Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.05 | 0.07 | 0.11 | 0.16 | 0.24 |
| Distillate (diesel) | 121.48 | 159.84 | 192.69 | 225.79 | 260.64 | 298.34 | 336.99 | 373.79 | 414.46 | 454.69 | 494.83 | 532.13 | 568.66 |
| Total | 14951.38 | 15278.81 | 15738.68 | 16065.04 | 16397.95 | 16830.53 | 17304.36 | 17802.93 | 18324.75 | 18837.66 | 19364.16 | 19853.42 | 20321.66 |
| Commercial Light Trucks Gasoline 1/ | 634.64 | 603.87 | 596.29 | 613.35 | 631.46 | 645.00 | 663.16 | 685.21 | 707.27 | 730.41 | 755.71 | 779.09 | 801.10 |
| Freight Trucks 2/ | | | | | | | | | | | | | |
| Motor Gasoline | 267.43 | 236.82 | 221.34 | 218.04 | 211.03 | 200.96 | 192.93 | 186.25 | 179.69 | 174.56 | 170.89 | 167.71 | 164.86 |
| Distillate (diesel) | 4096.93 | 4075.63 | 4030.47 | 4190.44 | 4349.90 | 4465.33 | 4606.40 | 4769.46 | 4925.21 | 5099.24 | 5288.92 | 5464.29 | 5612.96 |
| Compressed Natural Gas | 1.04 | 1.36 | 1.86 | 2.72 | 4.26 | 6.35 | 8.89 | 11.92 | 15.33 | 19.04 | 22.90 | 26.70 | 30.20 |
| Liquefied Petroleum Gas | 9.31 | 8.24 | 7.64 | 7.42 | 7.28 | 7.20 | 7.30 | 7.57 | 7.96 | 8.44 | 8.94 | 9.40 | 9.76 |
| Total | 4374.71 | 4322.05 | 4261.30 | 4418.62 | 4572.48 | 4679.84 | 4815.52 | 4975.20 | 5128.19 | 5301.28 | 5491.64 | 5668.10 | 5817.78 |
| Freight Rail 3/ | | | | | | | | | | | | | |
| Distillate (diesel) | 497.15 | 512.81 | 492.32 | 497.21 | 499.54 | 501.86 | 512.23 | 521.06 | 525.78 | 532.07 | 540.09 | 550.39 | 554.68 |
| Total | 497.15 | 512.81 | 492.32 | 497.21 | 499.54 | 501.86 | 512.23 | 521.06 | 525.78 | 532.07 | 540.09 | 550.39 | 554.68 |
| Domestic Shipping | | | | | | | | | | | | | |
| Distillate (diesel) | 200.09 | 247.90 | 243.71 | 246.75 | 249.27 | 250.90 | 256.79 | 260.53 | 264.11 | 267.26 | 270.58 | 274.51 | 277.98 |
| Residual Oil | 83.34 | 96.69 | 94.68 | 95.86 | 96.84 | 97.47 | 99.76 | 101.22 | 102.61 | 103.83 | 105.12 | 106.65 | 108.00 |
| Motor Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 283.43 | 344.58 | 338.39 | 342.61 | 346.11 | 348.37 | 356.55 | 361.75 | 366.72 | 371.09 | 375.71 | 381.16 | 385.98 |
| International Shipping | | | | | | | | | | | | | |
| Distillate (diesel) | 54.52 | 53.36 | 49.96 | 51.83 | 51.90 | 51.96 | 52.04 | 52.12 | 52.19 | 52.27 | 52.34 | 52.42 | 52.49 |
| Residual Oil | 786.77 | 721.03 | 672.50 | 697.62 | 698.64 | 699.44 | 700.52 | 701.51 | 702.48 | 703.52 | 704.56 | 705.57 | 706.60 |
| Total | 841.30 | 774.39 | 722.46 | 749.45 | 750.54 | 751.40 | 752.57 | 753.62 | 754.67 | 755.78 | 756.90 | 757.99 | 759.10 |
| Air Transportation | | | | | | | | | | | | | |
| Jet Fuel | 3103.33 | 2924.33 | 2844.78 | 2794.74 | 2779.65 | 2857.06 | 2956.73 | 3049.68 | 3156.93 | 3271.09 | 3371.21 | 3475.15 | 3583.33 |
| Aviation Gasoline | 42.56 | 42.48 | 42.41 | 42.35 | 42.30 | 42.26 | 42.23 | 42.20 | 42.18 | 42.16 | 42.14 | 42.13 | 42.12 |
| Total | 3145.89 | 2966.80 | 2887.18 | 2837.08 | 2821.95 | 2899.32 | 2998.96 | 3091.88 | 3199.10 | 3313.25 | 3413.35 | 3517.28 | 3625.45 |
| Miscellaneous Transportation | | | | | | | | | | | | | |
| Military Use | | | | | | | | | | | | | |
| Jet Fuel | 476.67 | 501.67 | 518.22 | 552.18 | 559.99 | 555.85 | 557.11 | 557.21 | 558.45 | 560.09 | 561.59 | 562.95 | 567.72 |
| Residual Fuel | 17.89 | 18.28 | 19.82 | 21.12 | 21.42 | 21.26 | 21.31 | 21.31 | 21.36 | 21.42 | 21.48 | 21.53 | 21.72 |
| Distillate | 93.18 | 101.66 | 110.69 | 117.94 | 119.61 | 118.72 | 118.99 | 119.01 | 119.28 | 119.63 | 119.95 | 120.24 | 121.26 |
| Total | 587.74 | 621.62 | 648.73 | 691.24 | 701.01 | 695.84 | 697.41 | 697.53 | 699.09 | 701.14 | 703.01 | 704.72 | 710.69 |
| Bus Transportation | | | | | | | | | | | | | |
| Transit Bus (motor gasoline) | 4.55 | 4.49 | 4.48 | 4.49 | 4.52 | 4.56 | 4.60 | 4.64 | 4.69 | 4.73 | 4.78 | 4.81 | 4.84 |
| Transit Bus (diesel) | 93.14 | 96.99 | 97.24 | 97.55 | 98.05 | 98.93 | 99.84 | 100.81 | 101.82 | 102.78 | 103.71 | 104.48 | 105.10 |
| Intercity Bus (diesel) | 36.00 | 37.49 | 37.58 | 37.70 | 37.89 | 38.23 | 38.59 | 38.96 | 39.35 | 39.72 | 40.08 | 40.38 | 40.62 |
| School Bus (motor gasoline) | 5.32 | 5.25 | 5.24 | 5.25 | 5.28 | 5.33 | 5.38 | 5.43 | 5.48 | 5.54 | 5.59 | 5.63 | 5.66 |

**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode**
**(Trillion Btu)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| School Bus (diesel) | 108.92 | 113.42 | 113.71 | 114.07 | 114.66 | 115.68 | 116.75 | 117.88 | 119.06 | 120.18 | 121.27 | 122.18 | 122.91 |
| Total | 247.93 | 257.64 | 258.25 | 259.06 | 260.40 | 262.73 | 265.16 | 267.72 | 270.40 | 272.95 | 275.43 | 277.49 | 279.13 |
| | | | | | | | | | | | | | |
| Rail Transportation | | | | | | | | | | | | | |
| Intercity Rail (electricity) | 10.00 | 10.17 | 10.40 | 10.57 | 10.75 | 10.96 | 11.17 | 11.39 | 11.61 | 11.83 | 12.06 | 12.29 | 12.51 |
| Intercity Rail (diesel) | 15.70 | 16.60 | 16.88 | 17.15 | 17.44 | 17.79 | 18.13 | 18.48 | 18.85 | 19.21 | 19.58 | 19.94 | 20.31 |
| Transit Rail (electricity) | 45.58 | 46.36 | 47.40 | 48.16 | 48.98 | 49.95 | 50.92 | 51.90 | 52.92 | 53.94 | 54.98 | 56.01 | 57.04 |
| Commuter Rail (electricity) | 15.85 | 16.13 | 16.49 | 16.75 | 17.04 | 17.38 | 17.71 | 18.05 | 18.41 | 18.76 | 19.12 | 19.48 | 19.84 |
| Commuter Rail (diesel) | 24.89 | 26.31 | 26.76 | 27.19 | 27.65 | 28.20 | 28.75 | 29.30 | 29.88 | 30.45 | 31.04 | 31.62 | 32.20 |
| Total | 112.01 | 115.57 | 117.92 | 119.83 | 121.86 | 124.28 | 126.68 | 129.13 | 131.67 | 134.19 | 136.78 | 139.34 | 141.90 |
| | | | | | | | | | | | | | |
| Recreation Boats | 316.13 | 313.09 | 314.34 | 315.95 | 317.19 | 319.58 | 322.38 | 325.36 | 328.59 | 331.87 | 335.49 | 338.78 | 342.11 |
| Lubricants | 180.00 | 194.00 | 200.00 | 203.35 | 205.20 | 202.38 | 203.75 | 206.21 | 208.31 | 211.54 | 216.03 | 220.36 | 224.49 |
| Pipeline Fuel Natural Gas | 661.84 | 629.92 | 579.89 | 632.91 | 653.48 | 663.02 | 680.35 | 693.75 | 722.93 | 748.42 | 777.44 | 794.95 | 814.96 |
| | | | | | | | | | | | | | |
| Total Miscellaneous | 2105.65 | 2131.83 | 2119.13 | 2222.34 | 2259.14 | 2267.83 | 2295.73 | 2319.71 | 2360.98 | 2400.11 | 2444.18 | 2475.64 | 2513.29 |
| | | | | | | | | | | | | | |
| Total Consumption | 26834.15 | 26935.14 | 27155.74 | 27745.70 | 28279.16 | 28924.15 | 29699.06 | 30511.35 | 31367.46 | 32241.66 | 33141.73 | 33983.08 | 34779.04 |

**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode**
**(Trillion Btu)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Light-Duty Vehicle | | | | | | | | | | | | | | |
| Motor Gasoline | 19856.21 | 20229.87 | 20585.51 | 20925.75 | 21249.19 | 21588.55 | 21951.80 | 22256.78 | 22555.02 | 22874.16 | 23233.65 | 23624.46 | 23984.47 | 2.0% |
| Ethanol | 115.07 | 116.15 | 117.26 | 118.25 | 119.08 | 119.50 | 119.66 | 119.31 | 118.59 | 118.02 | 117.49 | 117.28 | 117.09 | 5.9% |
| Compressed Natural Gas | 54.06 | 56.02 | 57.86 | 59.56 | 61.14 | 62.56 | 63.90 | 64.99 | 65.85 | 66.72 | 67.60 | 68.54 | 69.40 | 6.4% |
| Liquefied Petroleum Gas | 141.68 | 145.03 | 148.11 | 151.14 | 154.23 | 156.70 | 158.74 | 160.13 | 160.89 | 161.99 | 163.20 | 164.42 | 166.50 | 6.5% |
| Electricity | 10.13 | 11.30 | 12.49 | 13.63 | 15.25 | 16.91 | 18.47 | 20.62 | 22.80 | 24.88 | 26.94 | 28.98 | 30.86 | 14.0% |
| Liquid Hydrogen | 0.34 | 0.42 | 0.49 | 0.56 | 0.62 | 0.69 | 0.79 | 0.88 | 0.99 | 1.16 | 1.37 | 1.65 | 2.03 | N/A |
| Distillate (diesel) | 604.77 | 640.71 | 674.22 | 706.19 | 743.24 | 776.88 | 811.34 | 844.03 | 871.80 | 899.19 | 928.30 | 959.50 | 991.95 | 7.9% |
| Total | 20782.27 | 21199.51 | 21595.95 | 21975.09 | 22342.75 | 22721.80 | 23124.71 | 23466.75 | 23795.96 | 24146.13 | 24538.55 | 24964.83 | 25362.29 | 2.1% |
| Commercial Light Trucks Gasoline 1/ | 820.57 | 839.86 | 855.41 | 868.82 | 883.25 | 898.44 | 915.83 | 930.57 | 944.72 | 961.86 | 979.23 | 999.15 | 1015.66 | 2.2% |
| Freight Trucks 2/ | | | | | | | | | | | | | | |
| Motor Gasoline | 162.39 | 160.88 | 159.42 | 158.30 | 157.96 | 157.98 | 158.37 | 158.33 | 158.49 | 159.16 | 159.95 | 161.37 | 162.34 | -1.6% |
| Distillate (diesel) | 5738.04 | 5861.77 | 5957.13 | 6041.05 | 6138.51 | 6240.91 | 6357.89 | 6460.04 | 6570.08 | 6705.45 | 6843.99 | 7003.23 | 7136.32 | 2.4% |
| Compressed Natural Gas | 33.29 | 36.02 | 38.27 | 40.17 | 41.93 | 43.62 | 45.34 | 46.87 | 48.34 | 49.96 | 51.51 | 53.10 | 54.35 | 16.6% |
| Liquefied Petroleum Gas | 10.02 | 10.20 | 10.28 | 10.31 | 10.36 | 10.43 | 10.54 | 10.64 | 10.76 | 10.96 | 11.20 | 11.48 | 11.70 | 1.5% |
| Total | 5943.74 | 6068.88 | 6165.11 | 6249.83 | 6348.77 | 6452.93 | 6572.15 | 6675.88 | 6787.67 | 6925.52 | 7066.66 | 7229.17 | 7364.71 | 2.2% |
| Freight Rail 3/ | | | | | | | | | | | | | | |
| Distillate (diesel) | 557.59 | 560.59 | 563.87 | 568.90 | 572.93 | 575.67 | 580.05 | 582.48 | 583.67 | 587.57 | 591.50 | 595.05 | 599.52 | 0.7% |
| Total | 557.59 | 560.59 | 563.87 | 568.90 | 572.93 | 575.67 | 580.05 | 582.48 | 583.67 | 587.57 | 591.50 | 595.05 | 599.52 | 0.7% |
| Domestic Shipping | | | | | | | | | | | | | | |
| Distillate (diesel) | 280.61 | 283.95 | 287.18 | 289.87 | 293.10 | 297.49 | 302.56 | 306.09 | 309.84 | 314.87 | 318.40 | 322.68 | 326.37 | 1.2% |
| Residual Oil | 109.02 | 110.32 | 111.57 | 112.61 | 113.87 | 115.58 | 117.54 | 118.92 | 120.38 | 122.33 | 123.70 | 125.36 | 126.80 | 1.1% |
| Motor Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 389.63 | 394.27 | 398.75 | 402.48 | 406.97 | 413.06 | 420.10 | 425.01 | 430.22 | 437.20 | 442.11 | 448.05 | 453.16 | 1.1% |
| International Shipping | | | | | | | | | | | | | | |
| Distillate (diesel) | 52.58 | 52.66 | 52.74 | 52.82 | 52.90 | 52.98 | 53.07 | 53.15 | 53.23 | 53.32 | 53.41 | 53.49 | 53.58 | 0.0% |
| Residual Oil | 707.69 | 708.79 | 709.87 | 710.92 | 712.00 | 713.14 | 714.33 | 715.47 | 716.56 | 717.70 | 718.86 | 720.03 | 721.16 | 0.0% |
| Total | 760.26 | 761.45 | 762.61 | 763.74 | 764.89 | 766.13 | 767.40 | 768.62 | 769.79 | 771.01 | 772.27 | 773.52 | 774.74 | 0.0% |
| Air Transportation | | | | | | | | | | | | | | |
| Jet Fuel | 3695.33 | 3808.99 | 3920.59 | 4029.98 | 4141.79 | 4256.95 | 4368.95 | 4475.84 | 4580.71 | 4688.29 | 4797.59 | 4905.48 | 5019.03 | 2.3% |
| Aviation Gasoline | 42.11 | 42.10 | 42.10 | 42.09 | 42.09 | 42.08 | 42.08 | 42.08 | 42.08 | 42.07 | 42.07 | 42.07 | 42.07 | 0.0% |
| Total | 3737.44 | 3851.09 | 3962.69 | 4072.07 | 4183.87 | 4299.03 | 4411.03 | 4517.92 | 4622.78 | 4730.37 | 4839.66 | 4947.55 | 5061.10 | 2.3% |
| Miscellaneous Transportation | | | | | | | | | | | | | | |
| Military Use | | | | | | | | | | | | | | |
| Jet Fuel | 574.63 | 581.60 | 588.63 | 595.73 | 602.89 | 610.11 | 617.38 | 624.73 | 632.13 | 639.59 | 647.12 | 654.72 | 662.38 | 1.2% |
| Residual Fuel | 21.98 | 22.25 | 22.52 | 22.79 | 23.06 | 23.34 | 23.62 | 23.90 | 24.18 | 24.46 | 24.75 | 25.04 | 25.34 | 1.4% |
| Distillate | 122.73 | 124.22 | 125.72 | 127.24 | 128.77 | 130.31 | 131.86 | 133.43 | 135.01 | 136.61 | 138.22 | 139.84 | 141.48 | 1.4% |
| Total | 719.34 | 728.07 | 736.87 | 745.75 | 754.72 | 763.75 | 772.86 | 782.05 | 791.32 | 800.67 | 810.09 | 819.60 | 829.19 | 1.2% |
| Bus Transportation | | | | | | | | | | | | | | |
| Transit Bus (motor gasoline) | 4.86 | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.88 | 4.89 | 4.90 | 4.92 | 4.94 | 0.4% |
| Transit Bus (diesel) | 105.58 | 105.85 | 105.95 | 105.94 | 105.91 | 105.89 | 105.92 | 105.94 | 105.98 | 106.13 | 106.41 | 106.81 | 107.21 | 0.4% |
| Intercity Bus (diesel) | 40.81 | 40.91 | 40.95 | 40.94 | 40.93 | 40.92 | 40.94 | 40.94 | 40.96 | 41.02 | 41.13 | 41.28 | 41.43 | 0.4% |
| School Bus (motor gasoline) | 5.69 | 5.70 | 5.71 | 5.71 | 5.71 | 5.70 | 5.71 | 5.71 | 5.71 | 5.72 | 5.73 | 5.75 | 5.77 | 0.4% |

**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode**
**(Trillion Btu)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| School Bus (diesel) | 123.47 | 123.77 | 123.89 | 123.88 | 123.85 | 123.82 | 123.86 | 123.88 | 123.93 | 124.10 | 124.44 | 124.90 | 125.37 | 0.4% |
| Total | 280.41 | 281.10 | 281.37 | 281.35 | 281.28 | 281.22 | 281.30 | 281.35 | 281.46 | 281.85 | 282.61 | 283.65 | 284.72 | 0.4% |
| | | | | | | | | | | | | | | |
| Rail Transportation | | | | | | | | | | | | | | |
| Intercity Rail (electricity) | 12.74 | 12.97 | 13.19 | 13.42 | 13.65 | 13.88 | 14.13 | 14.37 | 14.60 | 14.84 | 15.09 | 15.35 | 15.61 | 1.8% |
| Intercity Rail (diesel) | 20.68 | 21.05 | 21.41 | 21.78 | 22.15 | 22.53 | 22.93 | 23.32 | 23.70 | 24.09 | 24.50 | 24.92 | 25.34 | 1.8% |
| Transit Rail (electricity) | 58.08 | 59.10 | 60.13 | 61.15 | 62.19 | 63.27 | 64.39 | 65.48 | 66.54 | 67.64 | 68.79 | 69.98 | 71.16 | 1.8% |
| Commuter Rail (electricity) | 20.20 | 20.56 | 20.92 | 21.27 | 21.63 | 22.01 | 22.40 | 22.78 | 23.15 | 23.53 | 23.93 | 24.34 | 24.75 | 1.8% |
| Commuter Rail (diesel) | 32.79 | 33.37 | 33.95 | 34.53 | 35.11 | 35.72 | 36.35 | 36.97 | 37.57 | 38.19 | 38.84 | 39.51 | 40.18 | 1.8% |
| Total | 144.50 | 147.05 | 149.60 | 152.15 | 154.73 | 157.41 | 160.20 | 162.90 | 165.55 | 168.28 | 171.15 | 174.11 | 177.04 | 1.8% |
| | | | | | | | | | | | | | | |
| Recreation Boats | 345.48 | 349.08 | 352.56 | 355.97 | 359.41 | 362.93 | 366.64 | 369.84 | 372.75 | 375.85 | 379.31 | 382.96 | 386.43 | 0.9% |
| Lubricants | 228.73 | 233.59 | 238.10 | 242.48 | 246.95 | 250.98 | 255.03 | 258.24 | 261.18 | 264.81 | 268.35 | 272.66 | 276.32 | 1.5% |
| Pipeline Fuel Natural Gas | 826.18 | 838.65 | 848.12 | 854.03 | 859.33 | 875.75 | 890.99 | 908.14 | 945.07 | 985.49 | 997.34 | 1011.56 | 1021.95 | 2.0% |
| | | | | | | | | | | | | | | |
| Total Miscellaneous | 2544.65 | 2577.54 | 2606.63 | 2631.74 | 2656.43 | 2692.04 | 2727.02 | 2762.53 | 2817.33 | 2876.94 | 2908.84 | 2944.54 | 2975.66 | 1.4% |
| | | | | | | | | | | | | | | |
| Total Consumption | 35536.15 | 36253.19 | 36911.02 | 37532.67 | 38159.86 | 38819.11 | 39518.28 | 40129.75 | 40752.15 | 41436.61 | 42138.82 | 42901.88 | 43606.83 | 2.0% |

**Table 34. Transportation Sector Energy Use by Fuel Type Within a Mode**
**(Trillion Btu)**

1/ Commercial trucks from 8,500 to 10,000 pounds.
2/ Does not include military distillate. Does not include commercial buses.
3/ Does not include passenger rail.
Btu = British thermal unit.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2000 and 2001 compressed natural gas volumes: Energy Information Administration (EIA), AEO2003 National Energy Modeling System run aeo2003.d110502c. Other 2000 and 2001 values derived using: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002); EIA, Fuel Oil and Kerosene Sales 2001, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/fuel_oil_and_kerosene_sales/historical/foks.html; EIA, State Energy Data Report 1999, DOE/EIA-0214(99) (Washington, DC, May 2001); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 22 and Annual (Oak Ridge, TN, September 2002); Department of Defense, Defense Fuel Supply Center; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type**
**(Trillion Btu)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Light-Duty Consumption by Technology Type | | | | | | | | | | | | | |
| Conventional Vehicles 1/ | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 14651.56 | 14815.60 | 15118.45 | 15288.78 | 15458.83 | 15730.43 | 16047.75 | 16379.47 | 16710.88 | 17038.99 | 17377.51 | 17677.99 | 17968.45 |
| TDI Diesel ICE | 121.48 | 159.84 | 192.69 | 225.79 | 260.64 | 298.34 | 336.99 | 373.79 | 414.46 | 454.69 | 494.83 | 532.13 | 568.66 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.80 | 0.72 | 0.63 | 0.51 | 0.45 | 0.37 | 0.36 | 0.34 | 0.32 | 0.30 | 0.28 | 0.26 | 0.23 |
| Methanol ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethanol-Flex Fuel ICE | 135.41 | 226.85 | 315.76 | 402.62 | 487.03 | 568.10 | 645.34 | 721.95 | 798.08 | 872.30 | 946.74 | 1017.51 | 1084.21 |
| Ethanol ICE | 0.27 | 0.36 | 0.45 | 0.53 | 0.61 | 0.71 | 0.81 | 0.91 | 1.01 | 1.11 | 1.23 | 1.34 | 1.46 |
| Total Alcohol | 136.49 | 227.94 | 316.85 | 403.65 | 488.09 | 569.18 | 646.51 | 723.20 | 799.41 | 873.71 | 948.26 | 1019.11 | 1085.90 |
| Natural Gas Technology | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 0.25 | 0.27 | 0.29 | 0.31 | 0.33 | 0.34 | 0.36 | 0.37 | 0.40 | 0.41 | 0.43 | 0.44 | 0.45 |
| Compressed Natural Gas Bi-fuel | 10.32 | 16.03 | 21.45 | 27.03 | 32.48 | 37.51 | 40.78 | 44.06 | 47.26 | 50.40 | 53.64 | 56.72 | 59.59 |
| Liquefied Petroleum Gas ICE | 1.25 | 1.35 | 1.47 | 1.56 | 1.63 | 1.72 | 1.81 | 1.91 | 2.03 | 2.16 | 2.31 | 2.46 | 2.64 |
| Liquefied Petroleum Gas Bi-fuel | 15.38 | 36.54 | 56.72 | 77.52 | 98.13 | 116.89 | 129.86 | 141.90 | 153.68 | 165.32 | 177.27 | 188.70 | 199.40 |
| Total Natural Gas Technology | 27.20 | 54.19 | 79.93 | 106.42 | 132.57 | 156.47 | 172.81 | 188.25 | 203.37 | 218.29 | 233.65 | 248.32 | 262.07 |
| Electric Technology | | | | | | | | | | | | | |
| Electric Vehicle | 0.70 | 1.32 | 1.90 | 2.48 | 2.98 | 3.58 | 4.09 | 4.63 | 5.27 | 6.10 | 6.96 | 8.06 | 9.16 |
| Electric-Diesel Hybrid | 0.18 | 0.35 | 0.56 | 0.82 | 1.18 | 1.56 | 1.99 | 2.85 | 5.06 | 7.26 | 9.69 | 12.58 | 15.36 |
| Electric-Gasoline Hybrid | 3.18 | 9.66 | 18.74 | 32.48 | 53.91 | 75.85 | 103.84 | 145.66 | 208.07 | 267.41 | 329.46 | 399.39 | 464.08 |
| Total Electricity | 4.06 | 11.34 | 21.21 | 35.78 | 58.08 | 81.00 | 109.92 | 153.13 | 218.39 | 280.77 | 346.12 | 420.03 | 488.59 |
| Fuel Cell Technology | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.05 | 0.07 | 0.11 | 0.16 | 0.24 |
| Total Fuel Cell | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.05 | 0.07 | 0.11 | 0.16 | 0.24 |
| Light-Duty Consumption by Fuel Type 1/ | | | | | | | | | | | | | |
| Motor Gasoline | 14794.47 | 15035.10 | 15416.13 | 15661.78 | 15913.59 | 16271.99 | 16695.25 | 17150.77 | 17625.86 | 18091.92 | 18569.89 | 19013.85 | 19438.40 |
| Distillate (diesel) | 121.48 | 159.84 | 192.69 | 225.79 | 260.64 | 298.34 | 336.99 | 373.79 | 414.46 | 454.69 | 494.83 | 532.13 | 568.66 |
| Methanol | 0.80 | 0.64 | 0.48 | 0.28 | 0.15 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Ethanol | 6.99 | 29.55 | 50.88 | 72.63 | 93.78 | 108.06 | 111.44 | 111.46 | 111.46 | 111.70 | 112.83 | 113.80 | 114.41 |
| Compressed Natural Gas | 10.34 | 15.62 | 20.63 | 26.29 | 31.47 | 36.17 | 38.52 | 40.86 | 43.12 | 45.34 | 47.75 | 50.01 | 52.08 |
| Liquefied Petroleum Gas | 16.61 | 36.74 | 55.98 | 75.79 | 95.33 | 112.36 | 118.04 | 121.37 | 124.52 | 127.84 | 131.78 | 135.40 | 138.71 |
| Electricity | 0.70 | 1.32 | 1.90 | 2.48 | 2.98 | 3.58 | 4.09 | 4.63 | 5.27 | 6.10 | 6.96 | 8.06 | 9.16 |
| Liquid Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.05 | 0.07 | 0.11 | 0.16 | 0.24 |

**Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type**
**(Trillion Btu)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Light-Duty Consumption by Technology Type | | | | | | | | | | | | | | |
| Conventional Vehicles 1/ | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 18255.19 | 18496.41 | 18723.34 | 18948.31 | 19153.27 | 19376.88 | 19626.05 | 19823.30 | 20019.20 | 20238.19 | 20497.40 | 20787.53 | 21056.09 | 1.5% |
| TDI Diesel ICE | 604.77 | 640.71 | 674.22 | 706.19 | 743.24 | 776.88 | 811.34 | 844.03 | 871.80 | 899.19 | 928.30 | 959.50 | 991.95 | 7.9% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.21 | 0.19 | 0.17 | 0.14 | 0.12 | 0.11 | 0.09 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.04 | -10.9% |
| Methanol ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.1% |
| Ethanol-Flex Fuel ICE | 1148.05 | 1207.82 | 1264.28 | 1316.66 | 1365.16 | 1411.59 | 1457.16 | 1496.42 | 1531.84 | 1566.96 | 1603.17 | 1640.64 | 1674.54 | 8.7% |
| Ethanol ICE | 1.58 | 1.72 | 1.85 | 1.99 | 2.14 | 2.30 | 2.47 | 2.64 | 2.81 | 2.99 | 3.19 | 3.39 | 3.59 | 10.0% |
| Total Alcohol | 1149.85 | 1209.72 | 1266.30 | 1318.79 | 1367.42 | 1413.99 | 1459.72 | 1499.15 | 1534.74 | 1570.03 | 1606.41 | 1644.08 | 1678.18 | 8.7% |
| Natural Gas Technology | | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.46 | 0.46 | 0.46 | 0.46 | 0.47 | 0.47 | 2.3% |
| Compressed Natural Gas Bi-fuel | 62.34 | 64.99 | 67.50 | 69.82 | 71.97 | 73.96 | 75.85 | 77.46 | 78.82 | 80.17 | 81.52 | 82.94 | 84.24 | 7.2% |
| Liquefied Petroleum Gas ICE | 2.84 | 3.05 | 3.29 | 3.54 | 3.81 | 4.12 | 4.45 | 4.78 | 5.13 | 5.49 | 5.87 | 6.26 | 6.66 | 6.9% |
| Liquefied Petroleum Gas Bi-fuel | 209.67 | 219.57 | 228.90 | 237.54 | 245.50 | 252.84 | 259.80 | 265.74 | 270.79 | 275.73 | 280.69 | 285.82 | 290.51 | 9.0% |
| Total Natural Gas Technology | 275.29 | 288.07 | 300.13 | 311.36 | 321.73 | 331.36 | 340.55 | 348.44 | 355.20 | 361.85 | 368.55 | 375.48 | 381.87 | 8.5% |
| Electric Technology | | | | | | | | | | | | | | |
| Electric Vehicle | 10.13 | 11.30 | 12.49 | 13.63 | 15.25 | 16.91 | 18.47 | 20.62 | 22.80 | 24.88 | 26.94 | 28.98 | 30.86 | 14.0% |
| Electric-Diesel Hybrid | 18.29 | 22.04 | 25.82 | 29.22 | 33.76 | 38.41 | 43.15 | 48.50 | 53.51 | 58.42 | 63.34 | 68.63 | 73.83 | 24.9% |
| Electric-Gasoline Hybrid | 528.86 | 600.31 | 671.74 | 734.36 | 804.71 | 874.04 | 942.31 | 1010.26 | 1076.61 | 1141.73 | 1206.18 | 1270.14 | 1329.78 | 22.8% |
| Total Electricity | 557.29 | 633.65 | 710.06 | 777.20 | 853.72 | 929.36 | 1003.92 | 1079.39 | 1152.92 | 1225.03 | 1296.46 | 1367.75 | 1434.47 | 22.3% |
| Fuel Cell Technology | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Hydrogen | 0.34 | 0.42 | 0.49 | 0.56 | 0.62 | 0.69 | 0.79 | 0.88 | 0.99 | 1.16 | 1.37 | 1.65 | 2.03 | N/A |
| Total Fuel Cell | 0.34 | 0.42 | 0.49 | 0.56 | 0.62 | 0.69 | 0.79 | 0.88 | 0.99 | 1.16 | 1.37 | 1.66 | 2.03 | N/A |
| Light-Duty Consumption by Fuel Type 1/ | | | | | | | | | | | | | | |
| Motor Gasoline | 19856.21 | 20229.87 | 20585.51 | 20925.75 | 21249.19 | 21588.55 | 21951.80 | 22256.78 | 22555.02 | 22874.16 | 23233.65 | 23624.46 | 23984.47 | 2.0% |
| Distillate (diesel) | 604.77 | 640.71 | 674.22 | 706.19 | 743.24 | 776.88 | 811.34 | 844.03 | 871.80 | 899.19 | 928.30 | 959.50 | 991.95 | 7.9% |
| Methanol | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -20.7% |
| Ethanol | 115.07 | 116.15 | 117.26 | 118.25 | 119.08 | 119.50 | 119.66 | 119.31 | 118.59 | 118.02 | 117.49 | 117.28 | 117.09 | 5.9% |
| Compressed Natural Gas | 54.06 | 56.02 | 57.86 | 59.56 | 61.14 | 62.56 | 63.90 | 64.99 | 65.85 | 66.72 | 67.60 | 68.54 | 69.40 | 6.4% |
| Liquefied Petroleum Gas | 141.68 | 145.03 | 148.11 | 151.14 | 154.23 | 156.70 | 158.74 | 160.13 | 160.89 | 161.99 | 163.20 | 164.42 | 166.50 | 6.5% |
| Electricity | 10.13 | 11.30 | 12.49 | 13.63 | 15.25 | 16.91 | 18.47 | 20.62 | 22.80 | 24.88 | 26.94 | 28.98 | 30.86 | 14.0% |
| Liquid Hydrogen | 0.34 | 0.42 | 0.49 | 0.56 | 0.62 | 0.69 | 0.79 | 0.88 | 0.99 | 1.16 | 1.37 | 1.65 | 2.03 | N/A |

**Table 35. Light-Duty Vehicle Energy Consumption by Technology Type and Fuel Type**
**(Trillion Btu)**

1/ Includes personal vehicles and fleet vehicles. Includes both cars and trucks.
Btu = British thermal unit.
ICE = Internal combustion engine.
N/A = Not applicable.
Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 36. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**New England**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 419.5 | 399.2 | 387.3 | 391.4 | 384.4 | 366.9 | 369.7 | 373.7 | 317.4 | 317.5 | 326.2 | 321.9 | 320.2 |
| TDI Diesel ICE | 0.9 | 0.8 | 0.8 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Total Conventional | 420.4 | 400.0 | 388.2 | 392.3 | 385.2 | 367.7 | 370.5 | 374.4 | 318.1 | 318.2 | 327.0 | 322.7 | 321.0 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 10.2 | 23.8 | 22.9 | 23.1 | 22.6 | 21.3 | 21.6 | 22.1 | 21.8 | 21.9 | 22.7 | 22.8 | 22.7 |
| Ethanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Electric Vehicle | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.8 | 1.5 |
| Electric-Diesel Hybrid | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 2.8 | 3.0 | 3.3 | 3.6 | 3.7 |
| Electric-Gasoline Hybrid | 1.8 | 4.0 | 5.5 | 8.2 | 12.6 | 12.4 | 15.3 | 18.2 | 68.3 | 69.5 | 72.0 | 76.2 | 76.1 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Liquefied Petroleum Gas Bi-fuel | 2.1 | 2.3 | 2.2 | 2.2 | 2.1 | 2.0 | 2.0 | 2.0 | 1.9 | 1.8 | 1.9 | 1.9 | 1.9 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Total Alternatives | 15.0 | 31.1 | 31.6 | 34.5 | 38.4 | 36.8 | 40.1 | 43.6 | 95.7 | 97.2 | 101.0 | 106.0 | 106.6 |
| Percent Alternative Car Sales | 3.44 | 7.22 | 7.52 | 8.08 | 9.07 | 9.09 | 9.75 | 10.43 | 23.12 | 23.39 | 23.60 | 24.73 | 24.93 |
| Total New Car Sales | 435.4 | 431.1 | 419.8 | 426.8 | 423.7 | 404.5 | 410.6 | 418.0 | 413.8 | 415.4 | 428.0 | 428.7 | 427.7 |
| New Light Truck Sales 2/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 340.9 | 309.5 | 301.7 | 310.0 | 312.0 | 301.6 | 308.4 | 317.6 | 295.1 | 298.2 | 309.5 | 310.5 | 310.9 |
| TDI Diesel ICE | 17.9 | 29.0 | 28.5 | 30.5 | 29.2 | 28.4 | 28.1 | 26.0 | 26.4 | 26.2 | 26.9 | 25.8 | 26.4 |
| Total Conventional | 358.8 | 338.5 | 330.2 | 340.4 | 341.2 | 330.1 | 336.5 | 343.6 | 321.5 | 324.4 | 336.4 | 336.3 | 337.3 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 11.5 | 27.8 | 26.8 | 28.0 | 28.0 | 26.8 | 27.9 | 28.9 | 28.7 | 29.2 | 30.6 | 30.9 | 31.0 |
| Ethanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Electric Vehicle | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6 | 0.9 | 1.3 | 1.5 | 2.0 | 1.9 | 2.3 | 1.7 |
| Electric-Diesel Hybrid | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.8 | 0.8 | 0.9 | 1.0 | 1.1 |
| Electric-Gasoline Hybrid | 1.1 | 2.1 | 3.0 | 5.1 | 8.0 | 7.9 | 10.3 | 12.6 | 33.6 | 34.2 | 35.2 | 37.4 | 37.7 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 1.3 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Liquefied Petroleum Gas Bi-fuel | 4.3 | 4.9 | 4.8 | 5.0 | 5.0 | 4.9 | 5.0 | 5.2 | 5.2 | 5.2 | 5.4 | 5.4 | 5.5 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| Total Alternatives | 18.5 | 36.6 | 36.5 | 39.9 | 42.9 | 42.0 | 45.8 | 49.8 | 71.5 | 73.1 | 75.8 | 78.9 | 78.8 |
| Percent Alternative Light Truck Sales | 4.91 | 9.75 | 9.95 | 10.50 | 11.17 | 11.28 | 11.99 | 12.67 | 18.20 | 18.39 | 18.39 | 19.00 | 18.94 |

**Table 36. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**New England**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 377.3 | 375.0 | 366.7 | 380.4 | 384.1 | 372.0 | 382.4 | 393.4 | 393.0 | 397.5 | 412.2 | 415.2 | 416.1 |
| | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 4.12 | 8.40 | 8.65 | 9.22 | 10.07 | 10.14 | 10.83 | 11.51 | 20.72 | 20.95 | 21.05 | 21.91 | 21.98 |
| EPACT Legislative Alternative Sales | 10.80 | 12.89 | 12.51 | 12.83 | 12.82 | 12.30 | 12.53 | 12.78 | 12.67 | 12.71 | 13.09 | 13.17 | 13.18 |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.68 | 81.24 | 121.88 | 159.48 | 162.67 | 168.71 | 175.65 | 176.77 |
| | | | | | | | | | | | | | |
| Total Vehicles Sales | 812.7 | 806.2 | 786.4 | 807.1 | 807.7 | 776.5 | 792.9 | 811.4 | 806.8 | 812.9 | 840.2 | 843.9 | 843.8 |

**Table 36. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**New England**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 321.7 | 323.5 | 327.0 | 327.4 | 314.6 | 309.7 | 310.9 | 296.0 | 289.2 | 289.5 | 288.2 | 290.8 | 288.5 | -1.3% |
| TDI Diesel ICE | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 0.9 | 1.0 | 1.0 | 1.1 | 1.1 | 1.3% |
| Total Conventional | 322.6 | 324.4 | 327.9 | 328.3 | 315.5 | 310.6 | 311.8 | 296.9 | 290.2 | 290.5 | 289.2 | 291.9 | 289.6 | -1.3% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.9% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.5% |
| Ethanol-Flex Fuel ICE | 22.8 | 23.5 | 23.9 | 23.9 | 23.7 | 23.4 | 23.5 | 23.2 | 22.7 | 22.7 | 22.6 | 22.9 | 22.6 | -0.2% |
| Ethanol ICE | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 6.5% |
| Electric Vehicle | 1.9 | 3.3 | 3.9 | 3.9 | 6.0 | 6.1 | 5.8 | 8.2 | 8.2 | 7.8 | 7.6 | 7.5 | 7.1 | 18.4% |
| Electric-Diesel Hybrid | 3.9 | 4.7 | 4.9 | 4.9 | 5.9 | 6.0 | 6.1 | 7.3 | 7.0 | 6.9 | 6.8 | 7.3 | 7.4 | 19.6% |
| Electric-Gasoline Hybrid | 76.3 | 81.2 | 83.2 | 83.0 | 90.0 | 90.1 | 90.3 | 97.7 | 97.8 | 97.9 | 97.1 | 98.2 | 96.6 | 14.2% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6% |
| Compressed Natural Gas Bi-fuel | 0.5 | 0.5 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | -0.8% |
| Liquefied Petroleum Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -6.7% |
| Liquefied Petroleum Gas Bi-fuel | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | 1.9 | 1.9 | -0.9% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 0.6 | 0.7 | N/A |
| Total Alternatives | 107.8 | 115.4 | 118.6 | 118.6 | 128.3 | 128.3 | 128.5 | 139.2 | 138.5 | 138.3 | 137.0 | 139.1 | 136.9 | 6.4% |
| Percent Alternative Car Sales | 25.04 | 26.24 | 26.56 | 26.54 | 28.91 | 29.24 | 29.19 | 31.91 | 32.31 | 32.25 | 32.14 | 32.27 | 32.09 | 6.4% |
| Total New Car Sales | 430.3 | 439.7 | 446.5 | 446.9 | 443.9 | 438.9 | 440.4 | 436.1 | 428.7 | 428.7 | 426.2 | 431.0 | 426.5 | 0.0% |
| New Light Truck Sales 2/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 314.3 | 319.9 | 325.2 | 326.3 | 320.4 | 317.3 | 318.4 | 310.6 | 305.3 | 305.3 | 303.4 | 305.2 | 300.5 | -0.1% |
| TDI Diesel ICE | 27.1 | 28.1 | 28.6 | 28.7 | 28.4 | 27.7 | 28.1 | 28.2 | 27.1 | 26.8 | 26.6 | 28.1 | 29.4 | 0.1% |
| Total Conventional | 341.4 | 347.9 | 353.8 | 355.1 | 348.8 | 345.0 | 346.6 | 338.8 | 332.4 | 332.1 | 330.0 | 333.3 | 329.9 | -0.1% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.7% |
| Ethanol-Flex Fuel ICE | 31.3 | 32.3 | 33.1 | 33.3 | 33.1 | 32.7 | 32.9 | 32.5 | 31.9 | 32.0 | 31.8 | 32.2 | 31.6 | 0.5% |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 7.1% |
| Electric Vehicle | 1.1 | 0.7 | 0.5 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.9% |
| Electric-Diesel Hybrid | 1.2 | 1.5 | 1.5 | 1.6 | 2.0 | 2.0 | 2.0 | 2.4 | 2.3 | 2.3 | 2.3 | 2.5 | 2.5 | 17.0% |
| Electric-Gasoline Hybrid | 38.0 | 41.0 | 42.3 | 42.4 | 46.5 | 46.6 | 46.8 | 50.9 | 50.8 | 51.0 | 50.8 | 51.4 | 50.7 | 14.3% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.7% |
| Compressed Natural Gas Bi-fuel | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.5% |
| Liquefied Petroleum Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -4.2% |
| Liquefied Petroleum Gas Bi-fuel | 5.5 | 5.7 | 5.8 | 5.8 | 5.8 | 5.7 | 5.7 | 5.7 | 5.6 | 5.6 | 5.5 | 5.6 | 5.6 | 0.5% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.6 | 0.7 | N/A |
| Total Alternatives | 79.0 | 83.1 | 85.1 | 85.3 | 89.5 | 89.2 | 89.7 | 93.7 | 92.8 | 93.3 | 92.8 | 94.3 | 93.2 | 4.0% |
| Percent Alternative Light Truck Sales | 18.78 | 19.27 | 19.38 | 19.36 | 20.43 | 20.54 | 20.56 | 21.67 | 21.83 | 21.93 | 21.95 | 22.05 | 22.03 | 3.5% |

**Table 36. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**New England**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 420.4 | 431.0 | 438.9 | 440.3 | 438.3 | 434.2 | 436.3 | 432.6 | 425.3 | 425.3 | 422.8 | 427.5 | 423.1 | 0.5% |
| | | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 21.95 | 22.79 | 23.00 | 22.98 | 24.70 | 24.91 | 24.90 | 26.81 | 27.09 | 27.11 | 27.07 | 27.18 | 27.08 | 5.0% |
| EPACT Legislative Alternative Sales | 13.30 | 13.63 | 13.87 | 13.91 | 13.84 | 13.70 | 13.77 | 13.65 | 13.42 | 13.42 | 13.34 | 13.49 | 13.35 | 0.1% |
| ZEVP Legislative Alternative Sales | 178.36 | 189.09 | 194.08 | 194.68 | 206.27 | 205.99 | 207.08 | 218.40 | 216.59 | 216.90 | 215.89 | 219.64 | 217.64 | N/A |
| | | | | | | | | | | | | | | |
| Total Vehicles Sales | 850.7 | 870.7 | 885.4 | 887.2 | 882.2 | 873.1 | 876.6 | 868.6 | 854.0 | 854.1 | 849.0 | 858.5 | 849.6 | 0.2% |

**Table 36. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**New England**

1/ Includes personal and fleet light-duty cars.
2/ Includes personal and fleet light-duty trucks.
ICE = Internal combustion engine.
EPACT = Energy Policy Act of 1992.
ZEVP = Zero emission vehicles from the low emission vehicle program.
N/A = Not applicable.
Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 37. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Middle Atlantic**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1225.1 | 1151.0 | 1106.2 | 1109.5 | 1083.0 | 1028.9 | 1033.0 | 1040.6 | 948.7 | 1022.3 | 1047.5 | 961.2 | 1036.5 |
| TDI Diesel ICE | 2.4 | 2.2 | 2.2 | 2.3 | 2.2 | 2.2 | 2.2 | 2.0 | 2.1 | 2.1 | 2.2 | 2.1 | 2.2 |
| Total Conventional | 1227.5 | 1153.2 | 1108.4 | 1111.7 | 1085.3 | 1031.1 | 1035.2 | 1042.6 | 950.8 | 1024.3 | 1049.7 | 963.3 | 1038.6 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 29.7 | 68.8 | 65.4 | 65.4 | 63.8 | 59.9 | 60.5 | 61.5 | 60.4 | 60.5 | 62.7 | 62.7 | 62.3 |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Electric Vehicle | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 1.0 | 1.8 |
| Electric-Diesel Hybrid | 0.3 | 0.3 | 0.3 | 0.4 | 0.6 | 0.6 | 0.7 | 1.2 | 5.1 | 2.3 | 2.6 | 6.5 | 2.9 |
| Electric-Gasoline Hybrid | 5.2 | 11.3 | 15.4 | 22.9 | 35.3 | 34.5 | 42.4 | 50.3 | 124.2 | 54.6 | 57.9 | 138.6 | 60.3 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 |
| Compressed Natural Gas Bi-fuel | 1.7 | 1.8 | 1.8 | 1.7 | 1.7 | 1.6 | 1.6 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| Liquefied Petroleum Gas Bi-fuel | 6.0 | 6.7 | 6.3 | 6.2 | 6.0 | 5.6 | 5.5 | 5.4 | 5.2 | 5.1 | 5.1 | 5.1 | 5.1 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.4 | 0.7 | 0.9 |
| Total Alternatives | 43.4 | 89.4 | 89.7 | 97.2 | 107.9 | 102.7 | 111.4 | 120.7 | 197.3 | 124.9 | 131.0 | 216.3 | 134.9 |
| Percent Alternative Car Sales | 3.42 | 7.20 | 7.49 | 8.04 | 9.04 | 9.06 | 9.71 | 10.38 | 17.18 | 10.86 | 11.10 | 18.34 | 11.50 |
| Total New Car Sales | 1270.9 | 1242.6 | 1198.2 | 1208.9 | 1193.2 | 1133.8 | 1146.6 | 1163.4 | 1148.1 | 1149.2 | 1180.7 | 1179.6 | 1173.6 |
| New Light Truck Sales 2/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1000.1 | 900.0 | 867.9 | 885.1 | 881.8 | 848.0 | 863.9 | 886.9 | 854.3 | 886.2 | 915.7 | 893.1 | 919.0 |
| TDI Diesel ICE | 47.5 | 75.1 | 74.4 | 79.0 | 79.1 | 77.7 | 76.7 | 70.4 | 71.5 | 71.0 | 72.5 | 69.6 | 71.0 |
| Total Conventional | 1047.6 | 975.1 | 942.3 | 964.1 | 960.9 | 925.7 | 940.5 | 957.3 | 925.8 | 957.2 | 988.2 | 962.8 | 990.0 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 33.7 | 80.7 | 77.2 | 79.8 | 79.1 | 75.4 | 78.1 | 80.7 | 79.9 | 80.8 | 84.5 | 85.2 | 85.1 |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Electric Vehicle | 0.4 | 0.5 | 0.4 | 0.5 | 0.5 | 1.3 | 1.8 | 2.6 | 3.0 | 3.8 | 3.6 | 4.3 | 3.5 |
| Electric-Diesel Hybrid | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 1.5 | 0.9 | 1.0 | 1.9 | 1.2 |
| Electric-Gasoline Hybrid | 3.1 | 5.9 | 8.5 | 14.1 | 22.2 | 22.1 | 28.5 | 34.9 | 61.2 | 37.8 | 40.0 | 68.2 | 41.9 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 3.8 | 4.3 | 4.1 | 4.3 | 4.3 | 4.1 | 4.2 | 4.3 | 4.3 | 4.3 | 4.5 | 4.5 | 4.5 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Liquefied Petroleum Gas Bi-fuel | 12.5 | 14.2 | 13.7 | 14.1 | 14.2 | 13.7 | 14.0 | 14.4 | 14.3 | 14.4 | 14.9 | 15.0 | 15.0 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 |
| Total Alternatives | 53.9 | 105.8 | 104.3 | 113.3 | 120.8 | 117.2 | 127.2 | 137.5 | 164.4 | 142.4 | 148.9 | 179.5 | 151.8 |
| Percent Alternative Light Truck Sales | 4.90 | 9.79 | 9.97 | 10.51 | 11.17 | 11.24 | 11.92 | 12.56 | 15.08 | 12.95 | 13.09 | 15.71 | 13.30 |

**Table 37. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Middle Atlantic**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 1101.5 | 1080.9 | 1046.6 | 1077.4 | 1081.7 | 1042.9 | 1067.8 | 1094.9 | 1090.2 | 1099.6 | 1137.1 | 1142.2 | 1141.8 |
| | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 4.10 | 8.40 | 8.65 | 9.20 | 10.05 | 10.10 | 10.77 | 11.44 | 16.16 | 11.88 | 12.08 | 17.05 | 12.38 |
| EPACT Legislative Alternative Sales | 31.53 | 37.16 | 35.72 | 36.35 | 36.11 | 34.48 | 34.99 | 35.57 | 35.14 | 35.17 | 36.10 | 36.22 | 36.17 |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 77.69 | 147.83 | 221.75 | 290.12 | 295.89 | 306.84 | 319.43 | 321.44 |
| | | | | | | | | | | | | | |
| Total Vehicles Sales | 2372.4 | 2323.6 | 2244.8 | 2286.3 | 2274.8 | 2176.7 | 2214.3 | 2258.2 | 2238.3 | 2248.8 | 2317.8 | 2321.8 | 2315.4 |

**Table 37. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Middle Atlantic**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1037.7 | 965.3 | 974.3 | 1061.7 | 943.9 | 928.1 | 928.8 | 895.6 | 874.9 | 872.9 | 866.0 | 871.9 | 861.6 | -1.2% |
| TDI Diesel ICE | 2.2 | 2.4 | 2.4 | 2.5 | 2.5 | 2.4 | 2.5 | 2.5 | 2.5 | 2.5 | 2.6 | 2.8 | 3.0 | 1.2% |
| Total Conventional | 1039.9 | 967.7 | 976.7 | 1064.1 | 946.4 | 930.5 | 931.3 | 898.1 | 877.4 | 875.4 | 868.6 | 874.7 | 864.7 | -1.2% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.3% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.3% |
| Ethanol-Flex Fuel ICE | 62.6 | 64.1 | 65.2 | 65.1 | 64.3 | 63.3 | 63.4 | 62.5 | 61.0 | 60.9 | 60.3 | 61.1 | 60.1 | -0.6% |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 3.8% |
| Electric Vehicle | 2.4 | 4.8 | 6.5 | 6.9 | 10.7 | 11.1 | 10.6 | 15.0 | 15.1 | 14.4 | 14.2 | 14.0 | 13.4 | 16.4% |
| Electric-Diesel Hybrid | 3.2 | 8.4 | 8.8 | 3.9 | 10.7 | 10.8 | 11.0 | 13.1 | 12.6 | 12.4 | 12.3 | 13.3 | 13.4 | 17.7% |
| Electric-Gasoline Hybrid | 61.9 | 147.7 | 151.2 | 66.5 | 163.6 | 163.7 | 164.1 | 177.6 | 177.7 | 178.0 | 176.4 | 178.5 | 175.4 | 12.1% |
| Compressed Natural Gas ICE | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 2.1% |
| Compressed Natural Gas Bi-fuel | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | -1.2% |
| Liquefied Petroleum Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.5% |
| Liquefied Petroleum Gas Bi-fuel | 5.1 | 5.2 | 5.3 | 5.3 | 5.2 | 5.1 | 5.2 | 5.1 | 5.0 | 5.0 | 4.9 | 5.0 | 4.9 | -1.3% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 1.2 | 1.0 | 0.6 | 0.6 | 0.4 | 0.4 | 0.5 | 0.4 | 0.5 | 0.6 | 0.7 | 0.9 | 1.1 | N/A |
| Total Alternatives | 137.9 | 232.9 | 239.3 | 149.9 | 256.7 | 256.2 | 256.5 | 275.4 | 273.6 | 273.0 | 270.5 | 274.5 | 270.0 | 4.7% |
| Percent Alternative Car Sales | 11.71 | 19.40 | 19.68 | 12.35 | 21.33 | 21.59 | 21.60 | 23.47 | 23.77 | 23.77 | 23.75 | 23.88 | 23.80 | 5.1% |
| Total New Car Sales | 1177.9 | 1200.6 | 1216.0 | 1214.1 | 1203.1 | 1186.7 | 1187.8 | 1173.5 | 1151.0 | 1148.5 | 1139.1 | 1149.2 | 1134.7 | -0.4% |
| New Light Truck Sales 2/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 925.2 | 913.5 | 927.0 | 959.0 | 912.8 | 902.3 | 903.3 | 883.8 | 867.1 | 865.0 | 857.4 | 860.7 | 845.7 | -0.3% |
| TDI Diesel ICE | 72.3 | 74.8 | 76.0 | 76.5 | 75.6 | 73.4 | 74.4 | 74.5 | 71.5 | 70.6 | 70.2 | 74.2 | 77.5 | 0.1% |
| Total Conventional | 997.6 | 988.4 | 1003.0 | 1035.4 | 988.4 | 975.7 | 977.7 | 958.3 | 938.6 | 935.6 | 927.6 | 934.9 | 923.3 | -0.2% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.1% |
| Ethanol-Flex Fuel ICE | 86.0 | 88.5 | 90.4 | 90.6 | 89.9 | 88.7 | 88.9 | 87.7 | 85.8 | 85.8 | 85.1 | 85.9 | 84.2 | 0.2% |
| Ethanol ICE | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 4.8% |
| Electric Vehicle | 2.3 | 1.9 | 1.2 | 0.8 | 0.7 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5% |
| Electric-Diesel Hybrid | 1.3 | 2.6 | 2.8 | 1.7 | 3.5 | 3.5 | 3.6 | 4.4 | 4.1 | 4.1 | 4.1 | 4.5 | 4.6 | 15.1% |
| Electric-Gasoline Hybrid | 43.1 | 74.7 | 77.0 | 46.8 | 84.7 | 84.8 | 85.2 | 92.6 | 92.5 | 92.9 | 92.4 | 93.5 | 92.3 | 12.2% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3% |
| Compressed Natural Gas Bi-fuel | 4.5 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.7 | 4.6 | 4.5 | 4.5 | 4.5 | 4.5 | 4.4 | 0.2% |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.8% |
| Liquefied Petroleum Gas Bi-fuel | 15.1 | 15.4 | 15.7 | 15.7 | 15.6 | 15.4 | 15.4 | 15.3 | 15.0 | 14.9 | 14.8 | 15.0 | 14.8 | 0.2% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.4 | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.4 | 0.3 | 0.4 | 0.5 | 0.6 | 0.9 | 1.1 | N/A |
| Total Alternatives | 153.0 | 188.4 | 192.3 | 160.9 | 199.6 | 198.2 | 199.1 | 205.8 | 203.2 | 203.7 | 202.4 | 205.1 | 202.4 | 2.7% |
| Percent Alternative Light Truck Sales | 13.29 | 16.01 | 16.09 | 13.45 | 16.80 | 16.89 | 16.92 | 17.68 | 17.80 | 17.88 | 17.91 | 17.99 | 17.98 | 2.6% |

**Table 37. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Middle Atlantic**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 1150.5 | 1176.7 | 1195.3 | 1196.3 | 1188.0 | 1173.9 | 1176.8 | 1164.1 | 1141.8 | 1139.3 | 1130.0 | 1140.0 | 1125.6 | 0.2% |
| | | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 12.49 | 17.72 | 17.90 | 12.90 | 19.08 | 19.25 | 19.27 | 20.59 | 20.80 | 20.84 | 20.84 | 20.95 | 20.90 | 3.9% |
| EPACT Legislative Alternative Sales | 36.42 | 37.22 | 37.78 | 37.79 | 37.51 | 37.05 | 37.13 | 36.72 | 36.02 | 35.94 | 35.65 | 35.96 | 35.51 | -0.2% |
| ZEVP Legislative Alternative Sales | 324.33 | 343.82 | 352.88 | 353.95 | 375.01 | 374.49 | 376.46 | 397.03 | 393.75 | 394.31 | 392.47 | 399.29 | 395.65 | N/A |
| | | | | | | | | | | | | | | |
| Total Vehicles Sales | 2328.4 | 2377.3 | 2411.4 | 2410.4 | 2391.1 | 2360.6 | 2364.7 | 2337.6 | 2292.8 | 2287.8 | 2269.1 | 2289.2 | 2260.3 | -0.1% |

**Table 37. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Middle Atlantic**

1/ Includes personal and fleet light-duty cars.
2/ Includes personal and fleet light-duty trucks.
ICE = Internal combustion engine.
EPACT = Energy Policy Act of 1992.
ZEVP = Zero emission vehicles from the low emission vehicle program.
N/A = Not applicable.
Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 38. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**East North Central**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1432.0 | 1341.2 | 1287.8 | 1291.0 | 1260.9 | 1199.3 | 1205.9 | 1216.7 | 1198.1 | 1198.4 | 1229.8 | 1228.3 | 1221.8 |
| TDI Diesel ICE | 3.1 | 3.0 | 2.7 | 2.8 | 2.8 | 2.7 | 2.8 | 2.6 | 2.7 | 2.7 | 2.8 | 2.7 | 2.8 |
| Total Conventional | 1435.1 | 1344.2 | 1290.5 | 1293.8 | 1263.6 | 1202.0 | 1208.7 | 1219.3 | 1200.8 | 1201.1 | 1232.6 | 1231.0 | 1224.6 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 34.7 | 80.1 | 76.1 | 76.1 | 74.3 | 69.8 | 70.6 | 71.8 | 70.7 | 70.9 | 73.6 | 73.6 | 73.2 |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| Electric Vehicle | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Electric-Diesel Hybrid | 0.4 | 0.4 | 0.4 | 0.5 | 0.7 | 0.7 | 0.9 | 1.5 | 2.7 | 2.9 | 3.3 | 3.5 | 3.7 |
| Electric-Gasoline Hybrid | 6.1 | 13.4 | 18.0 | 26.6 | 41.1 | 40.2 | 49.6 | 59.0 | 61.8 | 64.1 | 68.0 | 69.7 | 71.0 |
| Compressed Natural Gas ICE | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 2.0 | 2.2 | 2.0 | 2.0 | 2.0 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| Liquefied Petroleum Gas Bi-fuel | 7.1 | 7.8 | 7.3 | 7.2 | 7.0 | 6.5 | 6.4 | 6.4 | 6.1 | 6.0 | 6.0 | 6.0 | 6.0 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 50.8 | 104.4 | 104.5 | 113.1 | 125.6 | 119.5 | 129.8 | 141.0 | 143.6 | 146.1 | 153.2 | 155.1 | 156.1 |
| Percent Alternative Car Sales | 3.42 | 7.21 | 7.49 | 8.04 | 9.04 | 9.05 | 9.70 | 10.37 | 10.68 | 10.85 | 11.05 | 11.19 | 11.31 |
| Total New Car Sales | 1485.9 | 1448.6 | 1395.0 | 1406.9 | 1389.2 | 1321.5 | 1338.5 | 1360.4 | 1344.4 | 1347.2 | 1385.8 | 1386.1 | 1380.7 |
| New Light Truck Sales 2/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1160.9 | 1033.9 | 1005.3 | 1024.6 | 1020.8 | 983.1 | 1000.6 | 1030.5 | 1023.6 | 1033.1 | 1068.8 | 1077.7 | 1075.9 |
| TDI Diesel ICE | 64.1 | 104.1 | 92.2 | 97.9 | 98.5 | 97.6 | 99.8 | 92.2 | 93.9 | 93.7 | 95.6 | 92.0 | 93.6 |
| Total Conventional | 1225.0 | 1137.9 | 1097.5 | 1122.5 | 1119.3 | 1080.6 | 1100.4 | 1122.8 | 1117.4 | 1126.9 | 1164.4 | 1169.7 | 1169.4 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 39.2 | 92.8 | 89.4 | 92.4 | 91.6 | 87.3 | 90.4 | 93.5 | 92.8 | 93.9 | 98.3 | 99.3 | 99.4 |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 |
| Electric Vehicle | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 |
| Electric-Diesel Hybrid | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 |
| Electric-Gasoline Hybrid | 3.6 | 6.9 | 9.8 | 16.4 | 25.8 | 25.7 | 33.2 | 40.7 | 42.7 | 44.3 | 46.8 | 48.0 | 49.2 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 4.4 | 5.0 | 4.8 | 5.0 | 5.0 | 4.8 | 4.9 | 5.1 | 5.0 | 5.1 | 5.3 | 5.3 | 5.3 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Liquefied Petroleum Gas Bi-fuel | 14.6 | 16.5 | 16.0 | 16.4 | 16.5 | 15.9 | 16.4 | 16.8 | 16.7 | 16.9 | 17.5 | 17.6 | 17.6 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 62.8 | 122.2 | 121.0 | 131.3 | 140.1 | 135.0 | 146.1 | 157.5 | 159.1 | 162.1 | 170.1 | 172.6 | 173.9 |
| Percent Alternative Light Truck Sales | 4.88 | 9.69 | 9.93 | 10.47 | 11.12 | 11.10 | 11.72 | 12.30 | 12.47 | 12.58 | 12.75 | 12.86 | 12.94 |

**Table 38. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**East North Central**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 1287.9 | 1260.1 | 1218.5 | 1253.9 | 1259.4 | 1215.6 | 1246.5 | 1280.2 | 1276.6 | 1289.0 | 1334.5 | 1342.2 | 1343.3 |
| Percent Total Alternative Sales | 4.10 | 8.37 | 8.63 | 9.19 | 10.03 | 10.03 | 10.67 | 11.30 | 11.55 | 11.69 | 11.88 | 12.01 | 12.11 |
| EPACT Legislative Alternative Sales | 36.86 | 43.32 | 41.59 | 42.31 | 42.05 | 40.19 | 40.85 | 41.60 | 41.15 | 41.23 | 42.37 | 42.57 | 42.56 |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Vehicles Sales | 2773.8 | 2708.7 | 2613.5 | 2660.8 | 2648.6 | 2537.1 | 2585.0 | 2640.6 | 2621.0 | 2636.2 | 2720.3 | 2728.3 | 2724.0 |

**Table 38. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**East North Central**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1225.7 | 1248.4 | 1263.9 | 1263.1 | 1252.4 | 1236.9 | 1239.2 | 1225.3 | 1203.6 | 1202.1 | 1193.4 | 1204.7 | 1190.3 | -0.5% |
| TDI Diesel ICE | 2.9 | 3.0 | 3.1 | 3.2 | 3.3 | 3.3 | 3.4 | 3.4 | 3.4 | 3.4 | 3.6 | 3.7 | 4.0 | 1.2% |
| Total Conventional | 1228.6 | 1251.5 | 1267.0 | 1266.3 | 1255.7 | 1240.1 | 1242.5 | 1228.8 | 1206.9 | 1205.6 | 1197.0 | 1208.4 | 1194.3 | -0.5% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.2% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.8% |
| Ethanol-Flex Fuel ICE | 73.7 | 75.6 | 76.9 | 76.9 | 76.1 | 74.9 | 75.2 | 74.2 | 72.5 | 72.4 | 71.8 | 72.8 | 71.6 | -0.5% |
| Ethanol ICE | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2.9% |
| Electric Vehicle | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | -1.2% |
| Electric-Diesel Hybrid | 4.0 | 4.6 | 4.9 | 4.9 | 5.6 | 5.5 | 5.7 | 6.2 | 5.8 | 5.8 | 5.7 | 6.1 | 6.1 | 12.7% |
| Electric-Gasoline Hybrid | 72.9 | 75.9 | 78.5 | 78.7 | 78.1 | 77.2 | 77.4 | 76.3 | 75.1 | 75.1 | 74.6 | 75.2 | 74.5 | 7.4% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.9% |
| Compressed Natural Gas Bi-fuel | 1.7 | 1.7 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | -1.1% |
| Liquefied Petroleum Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.8% |
| Liquefied Petroleum Gas Bi-fuel | 6.0 | 6.1 | 6.2 | 6.2 | 6.2 | 6.1 | 6.1 | 6.0 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | -1.2% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 158.8 | 164.5 | 168.8 | 169.0 | 168.3 | 166.1 | 166.7 | 165.0 | 161.6 | 161.5 | 160.3 | 162.2 | 160.4 | 1.8% |
| Percent Alternative Car Sales | 11.45 | 11.62 | 11.76 | 11.78 | 11.82 | 11.81 | 11.83 | 11.84 | 11.81 | 11.81 | 11.81 | 11.84 | 11.84 | 2.1% |
| Total New Car Sales | 1387.4 | 1416.0 | 1435.9 | 1435.3 | 1424.0 | 1406.2 | 1409.2 | 1393.8 | 1368.6 | 1367.0 | 1357.3 | 1370.7 | 1354.8 | -0.3% |
| New Light Truck Sales 2/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1083.7 | 1106.6 | 1123.8 | 1124.9 | 1114.9 | 1104.3 | 1107.1 | 1095.3 | 1077.9 | 1076.6 | 1067.7 | 1077.2 | 1059.5 | 0.1% |
| TDI Diesel ICE | 94.8 | 98.2 | 99.6 | 100.8 | 103.6 | 101.4 | 102.9 | 103.2 | 99.2 | 98.9 | 99.4 | 101.1 | 105.5 | 0.1% |
| Total Conventional | 1178.5 | 1204.8 | 1223.4 | 1225.7 | 1218.5 | 1205.7 | 1210.0 | 1198.5 | 1177.1 | 1175.5 | 1167.1 | 1178.3 | 1165.0 | 0.1% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.3% |
| Ethanol-Flex Fuel ICE | 100.5 | 103.5 | 105.9 | 106.2 | 105.2 | 103.9 | 104.3 | 102.9 | 100.9 | 100.9 | 100.0 | 101.3 | 99.5 | 0.3% |
| Ethanol ICE | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 4.0% |
| Electric Vehicle | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.3% |
| Electric-Diesel Hybrid | 1.7 | 2.0 | 2.1 | 2.2 | 2.5 | 2.5 | 2.6 | 2.8 | 2.6 | 2.6 | 2.6 | 2.8 | 2.9 | 11.6% |
| Electric-Gasoline Hybrid | 50.6 | 52.9 | 55.0 | 55.2 | 55.0 | 54.3 | 54.5 | 53.8 | 52.9 | 53.0 | 52.7 | 53.1 | 52.7 | 8.8% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.5% |
| Compressed Natural Gas Bi-fuel | 5.4 | 5.5 | 5.6 | 5.6 | 5.6 | 5.5 | 5.5 | 5.5 | 5.4 | 5.4 | 5.3 | 5.4 | 5.3 | 0.3% |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.7% |
| Liquefied Petroleum Gas Bi-fuel | 17.8 | 18.2 | 18.5 | 18.6 | 18.4 | 18.3 | 18.3 | 18.1 | 17.8 | 17.8 | 17.7 | 17.8 | 17.6 | 0.3% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 176.7 | 183.1 | 188.0 | 188.6 | 187.6 | 185.4 | 186.2 | 184.1 | 180.5 | 180.6 | 179.3 | 181.4 | 179.0 | 1.6% |
| Percent Alternative Light Truck Sales | 13.04 | 13.19 | 13.32 | 13.34 | 13.34 | 13.33 | 13.33 | 13.32 | 13.30 | 13.32 | 13.32 | 13.34 | 13.32 | 1.3% |

**Table 38. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**East North Central**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 1355.3 | 1387.8 | 1411.5 | 1414.3 | 1406.1 | 1391.1 | 1396.2 | 1382.7 | 1357.6 | 1356.1 | 1346.4 | 1359.7 | 1344.0 | 0.3% |
| | | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 12.23 | 12.40 | 12.53 | 12.55 | 12.58 | 12.57 | 12.58 | 12.57 | 12.55 | 12.56 | 12.56 | 12.59 | 12.58 | 1.7% |
| EPACT Legislative Alternative Sales | 42.90 | 43.89 | 44.61 | 44.68 | 44.40 | 43.91 | 44.05 | 43.62 | 42.83 | 42.78 | 42.47 | 42.89 | 42.39 | -0.1% |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| | | | | | | | | | | | | | | |
| Total Vehicles Sales | 2742.7 | 2803.8 | 2847.3 | 2849.6 | 2830.1 | 2797.4 | 2805.4 | 2776.4 | 2726.2 | 2723.2 | 2703.7 | 2730.4 | 2698.7 | 0.0% |

**Table 38. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**East North Central**

1/ Includes personal and fleet light-duty cars.
2/ Includes personal and fleet light-duty trucks.
ICE = Internal combustion engine.
EPACT = Energy Policy Act of 1992.
ZEVP = Zero emission vehicles from the low emission vehicle program.
N/A = Not applicable.
Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 39. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**West North Central**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 584.3 | 554.6 | 537.6 | 543.1 | 533.5 | 509.5 | 513.9 | 519.9 | 513.4 | 515.0 | 529.9 | 530.6 | 529.1 |
| TDI Diesel ICE | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.2 |
| Total Conventional | 585.5 | 555.7 | 538.7 | 544.2 | 534.6 | 510.6 | 515.0 | 521.0 | 514.5 | 516.1 | 531.1 | 531.7 | 530.2 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 14.1 | 33.1 | 31.8 | 32.0 | 31.4 | 29.6 | 30.1 | 30.7 | 30.3 | 30.5 | 31.7 | 31.8 | 31.7 |
| Ethanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Electric Vehicle | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Electric-Diesel Hybrid | 0.2 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.6 | 1.1 | 1.2 | 1.4 | 1.5 | 1.5 |
| Electric-Gasoline Hybrid | 2.5 | 5.5 | 7.4 | 11.1 | 17.2 | 17.0 | 21.0 | 25.0 | 26.3 | 27.4 | 29.1 | 29.9 | 30.6 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 0.8 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Liquefied Petroleum Gas Bi-fuel | 2.9 | 3.2 | 3.1 | 3.0 | 3.0 | 2.8 | 2.7 | 2.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 20.7 | 43.1 | 43.6 | 47.5 | 53.0 | 50.7 | 55.2 | 60.1 | 61.3 | 62.6 | 65.8 | 66.8 | 67.4 |
| Percent Alternative Car Sales | 3.42 | 7.20 | 7.49 | 8.03 | 9.02 | 9.03 | 9.68 | 10.34 | 10.65 | 10.82 | 11.02 | 11.16 | 11.28 |
| Total New Car Sales | 606.3 | 598.9 | 582.3 | 591.7 | 587.7 | 561.3 | 570.2 | 581.1 | 575.8 | 578.7 | 596.9 | 598.5 | 597.6 |
| New Light Truck Sales 2/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 475.3 | 430.4 | 420.9 | 432.3 | 434.2 | 419.9 | 428.5 | 442.2 | 440.6 | 445.7 | 462.6 | 467.5 | 467.9 |
| TDI Diesel ICE | 24.5 | 39.8 | 37.1 | 39.7 | 39.2 | 38.9 | 40.2 | 37.3 | 37.9 | 38.2 | 38.8 | 37.4 | 38.2 |
| Total Conventional | 499.8 | 470.2 | 458.0 | 472.0 | 473.3 | 458.8 | 468.7 | 479.5 | 478.5 | 483.9 | 501.4 | 504.9 | 506.1 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 16.0 | 38.6 | 37.4 | 39.0 | 38.9 | 37.3 | 38.7 | 40.1 | 39.9 | 40.5 | 42.5 | 43.1 | 43.2 |
| Ethanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 |
| Electric Vehicle | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Electric-Diesel Hybrid | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 |
| Electric-Gasoline Hybrid | 1.5 | 2.8 | 4.1 | 6.9 | 10.9 | 10.8 | 14.1 | 17.3 | 18.2 | 18.9 | 20.1 | 20.7 | 21.2 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 1.8 | 2.1 | 2.0 | 2.1 | 2.1 | 2.0 | 2.1 | 2.2 | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Liquefied Petroleum Gas Bi-fuel | 6.0 | 6.8 | 6.7 | 6.9 | 7.0 | 6.8 | 7.0 | 7.2 | 7.2 | 7.3 | 7.5 | 7.6 | 7.6 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 25.7 | 50.8 | 50.6 | 55.4 | 59.4 | 57.5 | 62.4 | 67.4 | 68.3 | 69.8 | 73.4 | 74.7 | 75.4 |
| Percent Alternative Light Truck Sales | 4.89 | 9.74 | 9.95 | 10.50 | 11.15 | 11.13 | 11.75 | 12.32 | 12.49 | 12.60 | 12.77 | 12.88 | 12.97 |

**Table 39. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**West North Central**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 525.5 | 520.9 | 508.6 | 527.4 | 532.8 | 516.3 | 531.0 | 546.9 | 546.8 | 553.7 | 574.8 | 579.6 | 581.5 |
| | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 4.10 | 8.39 | 8.64 | 9.19 | 10.04 | 10.04 | 10.68 | 11.30 | 11.55 | 11.69 | 11.88 | 12.01 | 12.11 |
| EPACT Legislative Alternative Sales | 15.04 | 17.91 | 17.36 | 17.79 | 17.79 | 17.07 | 17.40 | 17.77 | 17.62 | 17.71 | 18.25 | 18.38 | 18.42 |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Total Vehicles Sales | 1131.7 | 1119.8 | 1090.9 | 1119.1 | 1120.4 | 1077.6 | 1101.3 | 1128.0 | 1122.6 | 1132.4 | 1171.6 | 1178.1 | 1179.1 |

**Table 39. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**West North Central**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 532.1 | 543.1 | 551.1 | 551.8 | 548.2 | 542.5 | 544.5 | 539.4 | 530.8 | 531.0 | 528.0 | 533.9 | 528.4 | -0.2% |
| TDI Diesel ICE | 1.2 | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.6 | 1.7 | 1.6% |
| Total Conventional | 533.2 | 544.4 | 552.3 | 553.1 | 549.6 | 543.8 | 545.9 | 540.8 | 532.2 | 532.5 | 529.6 | 535.5 | 530.1 | -0.2% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.9% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.4% |
| Ethanol-Flex Fuel ICE | 32.0 | 32.9 | 33.5 | 33.6 | 33.3 | 32.9 | 33.0 | 32.6 | 32.0 | 32.0 | 31.8 | 32.3 | 31.8 | -0.2% |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 4.0% |
| Electric Vehicle | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -0.9% |
| Electric-Diesel Hybrid | 1.7 | 1.9 | 2.0 | 2.1 | 2.3 | 2.3 | 2.4 | 2.6 | 2.5 | 2.5 | 2.4 | 2.6 | 2.6 | 13.1% |
| Electric-Gasoline Hybrid | 31.5 | 32.8 | 34.0 | 34.2 | 34.0 | 33.7 | 33.8 | 33.4 | 33.0 | 33.0 | 32.9 | 33.2 | 32.9 | 7.8% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.1% |
| Compressed Natural Gas Bi-fuel | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | -0.8% |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.8% |
| Liquefied Petroleum Gas Bi-fuel | 2.6 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | -0.9% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 68.7 | 71.3 | 73.4 | 73.6 | 73.4 | 72.6 | 73.0 | 72.4 | 71.0 | 71.1 | 70.7 | 71.7 | 71.0 | 2.1% |
| Percent Alternative Car Sales | 11.41 | 11.58 | 11.73 | 11.74 | 11.78 | 11.78 | 11.80 | 11.80 | 11.78 | 11.78 | 11.78 | 11.81 | 11.81 | 2.1% |
| Total New Car Sales | 601.9 | 615.7 | 625.7 | 626.7 | 623.0 | 616.5 | 618.9 | 613.2 | 603.2 | 603.6 | 600.2 | 607.2 | 601.1 | 0.0% |
| New Light Truck Sales 2/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 472.5 | 483.5 | 492.1 | 493.6 | 490.2 | 486.5 | 488.6 | 484.3 | 477.4 | 477.6 | 474.4 | 479.4 | 472.4 | 0.4% |
| TDI Diesel ICE | 38.7 | 40.2 | 40.8 | 41.5 | 42.8 | 41.9 | 42.6 | 42.9 | 41.3 | 41.2 | 41.6 | 42.4 | 44.4 | 0.5% |
| Total Conventional | 511.2 | 523.7 | 533.0 | 535.1 | 533.0 | 528.4 | 531.3 | 527.2 | 518.7 | 518.9 | 516.0 | 521.8 | 516.7 | 0.4% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2% |
| Ethanol-Flex Fuel ICE | 43.8 | 45.2 | 46.4 | 46.6 | 46.2 | 45.7 | 46.0 | 45.5 | 44.7 | 44.8 | 44.4 | 45.1 | 44.3 | 0.6% |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 5.1% |
| Electric Vehicle | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.6% |
| Electric-Diesel Hybrid | 0.7 | 0.8 | 0.9 | 0.9 | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 12.0% |
| Electric-Gasoline Hybrid | 21.9 | 22.9 | 23.9 | 24.0 | 24.0 | 23.8 | 23.9 | 23.6 | 23.3 | 23.3 | 23.3 | 23.5 | 23.4 | 9.2% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.9% |
| Compressed Natural Gas Bi-fuel | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 0.6% |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.5% |
| Liquefied Petroleum Gas Bi-fuel | 7.7 | 7.9 | 8.1 | 8.1 | 8.1 | 8.0 | 8.0 | 8.0 | 7.9 | 7.9 | 7.8 | 7.9 | 7.8 | 0.6% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 76.8 | 79.8 | 82.1 | 82.5 | 82.2 | 81.4 | 81.9 | 81.2 | 79.7 | 79.9 | 79.5 | 80.5 | 79.6 | 1.9% |
| Percent Alternative Light Truck Sales | 13.07 | 13.22 | 13.35 | 13.36 | 13.37 | 13.35 | 13.36 | 13.34 | 13.32 | 13.34 | 13.34 | 13.37 | 13.34 | 1.3% |

**Table 39. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**West North Central**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 588.0 | 603.5 | 615.1 | 617.6 | 615.2 | 609.8 | 613.2 | 608.3 | 598.4 | 598.7 | 595.5 | 602.3 | 596.3 | 0.6% |
| Percent Total Alternative Sales | 12.23 | 12.39 | 12.53 | 12.55 | 12.57 | 12.56 | 12.57 | 12.57 | 12.54 | 12.56 | 12.56 | 12.58 | 12.57 | 1.7% |
| EPACT Legislative Alternative Sales | 18.61 | 19.09 | 19.44 | 19.51 | 19.43 | 19.25 | 19.35 | 19.19 | 18.88 | 18.89 | 18.78 | 19.00 | 18.81 | 0.2% |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Vehicles Sales | 1189.9 | 1219.2 | 1240.8 | 1244.3 | 1238.3 | 1226.3 | 1232.1 | 1221.6 | 1201.6 | 1202.3 | 1195.7 | 1209.5 | 1197.4 | 0.3% |

**Table 39. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**West North Central**

1/ Includes personal and fleet light-duty cars.
2/ Includes personal and fleet light-duty trucks.
ICE = Internal combustion engine.
EPACT = Energy Policy Act of 1992.
ZEVP = Zero emission vehicles from the low emission vehicle program.
N/A = Not applicable.
Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 40. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**South Atlantic**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1655.1 | 1556.9 | 1501.4 | 1513.6 | 1488.2 | 1425.3 | 1443.3 | 1467.0 | 1456.2 | 1469.0 | 1520.8 | 1532.4 | 1537.9 |
| TDI Diesel ICE | 3.2 | 3.0 | 3.0 | 3.2 | 3.1 | 3.0 | 3.1 | 3.0 | 3.0 | 3.1 | 3.3 | 3.2 | 3.3 |
| Total Conventional | 1658.3 | 1559.9 | 1504.4 | 1516.8 | 1491.2 | 1428.3 | 1446.4 | 1469.9 | 1459.2 | 1472.1 | 1524.0 | 1535.6 | 1541.2 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 40.1 | 93.0 | 88.8 | 89.2 | 87.7 | 82.9 | 84.5 | 86.6 | 85.9 | 86.9 | 91.0 | 91.9 | 92.2 |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Electric Vehicle | 0.4 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Electric-Diesel Hybrid | 0.4 | 0.4 | 0.5 | 0.6 | 0.8 | 0.8 | 1.0 | 1.7 | 3.1 | 3.4 | 3.8 | 4.2 | 4.4 |
| Electric-Gasoline Hybrid | 6.9 | 15.1 | 20.7 | 30.8 | 47.8 | 47.1 | 58.5 | 70.1 | 74.0 | 77.5 | 83.0 | 85.8 | 88.2 |
| Compressed Natural Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| Compressed Natural Gas Bi-fuel | 2.3 | 2.5 | 2.4 | 2.4 | 2.3 | 2.2 | 2.2 | 2.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Liquefied Petroleum Gas Bi-fuel | 8.1 | 9.0 | 8.5 | 8.5 | 8.2 | 7.7 | 7.7 | 7.7 | 7.5 | 7.3 | 7.4 | 7.5 | 7.5 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 58.5 | 120.7 | 121.5 | 132.2 | 147.5 | 141.4 | 154.5 | 169.0 | 173.3 | 177.9 | 188.1 | 192.1 | 195.1 |
| Percent Alternative Car Sales | 3.41 | 7.18 | 7.48 | 8.01 | 9.00 | 9.01 | 9.65 | 10.31 | 10.62 | 10.78 | 10.99 | 11.12 | 11.24 |
| Total New Car Sales | 1716.8 | 1680.6 | 1626.0 | 1649.0 | 1638.8 | 1569.7 | 1600.9 | 1638.9 | 1632.5 | 1650.0 | 1712.1 | 1727.7 | 1736.3 |
| New Light Truck Sales 2/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1352.6 | 1219.4 | 1175.9 | 1205.1 | 1212.9 | 1176.5 | 1205.9 | 1250.0 | 1252.0 | 1274.1 | 1329.7 | 1352.2 | 1362.0 |
| TDI Diesel ICE | 62.6 | 99.3 | 103.1 | 110.4 | 107.2 | 106.7 | 109.8 | 102.4 | 104.8 | 105.9 | 108.8 | 105.7 | 108.5 |
| Total Conventional | 1415.2 | 1318.7 | 1279.0 | 1315.6 | 1320.0 | 1283.2 | 1315.8 | 1352.5 | 1356.8 | 1380.0 | 1438.5 | 1457.8 | 1470.6 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 45.6 | 109.4 | 104.6 | 108.7 | 108.8 | 104.5 | 108.9 | 113.4 | 113.4 | 115.8 | 122.3 | 124.6 | 125.8 |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.2 |
| Electric Vehicle | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Electric-Diesel Hybrid | 0.2 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.5 | 0.7 | 1.3 | 1.4 | 1.5 | 1.7 | 1.8 |
| Electric-Gasoline Hybrid | 4.1 | 7.8 | 11.3 | 19.0 | 30.1 | 30.2 | 39.3 | 48.5 | 51.3 | 53.6 | 57.3 | 59.3 | 61.3 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 5.1 | 5.8 | 5.6 | 5.8 | 5.9 | 5.7 | 5.9 | 6.1 | 6.1 | 6.2 | 6.5 | 6.6 | 6.7 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Liquefied Petroleum Gas Bi-fuel | 16.9 | 19.2 | 18.6 | 19.3 | 19.5 | 18.9 | 19.6 | 20.2 | 20.3 | 20.7 | 21.6 | 21.9 | 22.2 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 72.8 | 143.2 | 141.3 | 154.1 | 165.6 | 160.7 | 175.0 | 189.9 | 193.4 | 198.7 | 210.3 | 215.2 | 218.7 |

**Table 40. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**South Atlantic**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Alternative Light Truck Sales | 4.89 | 9.79 | 9.95 | 10.48 | 11.15 | 11.13 | 11.74 | 12.31 | 12.48 | 12.59 | 12.76 | 12.86 | 12.95 |
| Total New Truck Sales | 1488.0 | 1461.8 | 1420.3 | 1469.6 | 1485.7 | 1443.9 | 1490.8 | 1542.4 | 1550.2 | 1578.8 | 1648.8 | 1673.0 | 1689.3 |
| | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 4.10 | 8.40 | 8.63 | 9.18 | 10.02 | 10.02 | 10.66 | 11.28 | 11.52 | 11.66 | 11.85 | 11.98 | 12.08 |
| EPACT Legislative Alternative Sales | 42.59 | 50.25 | 48.48 | 49.59 | 49.60 | 47.74 | 48.85 | 50.11 | 49.97 | 50.50 | 52.35 | 53.06 | 53.52 |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Total Vehicles Sales | 3204.8 | 3142.4 | 3046.3 | 3118.6 | 3124.4 | 3013.6 | 3091.7 | 3181.2 | 3182.7 | 3228.8 | 3361.0 | 3400.7 | 3425.6 |

**Table 40. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**South Atlantic**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1556.8 | 1599.9 | 1634.3 | 1647.7 | 1648.2 | 1642.0 | 1659.4 | 1655.0 | 1639.3 | 1651.1 | 1652.7 | 1681.9 | 1675.5 | 0.3% |
| TDI Diesel ICE | 3.4 | 3.6 | 3.8 | 3.9 | 4.1 | 4.1 | 4.2 | 4.3 | 4.3 | 4.4 | 4.6 | 4.9 | 5.3 | 2.4% |
| Total Conventional | 1560.2 | 1603.5 | 1638.0 | 1651.6 | 1652.3 | 1646.1 | 1663.6 | 1659.3 | 1643.6 | 1655.5 | 1657.3 | 1686.8 | 1680.8 | 0.3% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.4% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0% |
| Ethanol-Flex Fuel ICE | 93.6 | 96.8 | 99.4 | 100.3 | 100.1 | 99.5 | 100.7 | 100.2 | 98.7 | 99.5 | 99.4 | 101.6 | 100.8 | 0.3% |
| Ethanol ICE | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 3.8% |
| Electric Vehicle | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | -0.4% |
| Electric-Diesel Hybrid | 4.8 | 5.6 | 6.0 | 6.1 | 7.0 | 7.0 | 7.2 | 7.9 | 7.6 | 7.6 | 7.6 | 8.1 | 8.2 | 13.9% |
| Electric-Gasoline Hybrid | 91.4 | 96.0 | 100.3 | 101.4 | 101.6 | 101.3 | 102.5 | 101.9 | 101.1 | 102.0 | 102.2 | 103.8 | 103.8 | 8.4% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.6% |
| Compressed Natural Gas Bi-fuel | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.4 | 2.4 | -0.2% |
| Liquefied Petroleum Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.5% |
| Liquefied Petroleum Gas Bi-fuel | 7.6 | 7.9 | 8.0 | 8.1 | 8.1 | 8.1 | 8.2 | 8.2 | 8.1 | 8.1 | 8.1 | 8.3 | 8.3 | -0.4% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 200.2 | 209.3 | 216.8 | 218.9 | 219.9 | 219.0 | 221.7 | 221.3 | 218.6 | 220.2 | 220.4 | 225.0 | 224.3 | 2.6% |
| Percent Alternative Car Sales | 11.37 | 11.54 | 11.69 | 11.70 | 11.74 | 11.74 | 11.76 | 11.77 | 11.74 | 11.74 | 11.74 | 11.77 | 11.77 | 2.1% |
| Total New Car Sales | 1760.5 | 1812.8 | 1854.8 | 1870.5 | 1872.2 | 1865.1 | 1885.2 | 1880.6 | 1862.2 | 1875.7 | 1877.7 | 1911.8 | 1905.1 | 0.5% |
| New Light Truck Sales 2/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1384.2 | 1426.1 | 1461.2 | 1475.4 | 1475.5 | 1474.1 | 1491.0 | 1487.8 | 1476.3 | 1486.8 | 1486.7 | 1512.4 | 1500.3 | 0.9% |
| TDI Diesel ICE | 111.0 | 116.2 | 118.9 | 121.9 | 126.4 | 124.8 | 127.6 | 129.2 | 125.3 | 125.9 | 127.8 | 130.8 | 137.7 | 1.4% |
| Total Conventional | 1495.3 | 1542.3 | 1580.2 | 1597.2 | 1601.9 | 1598.9 | 1618.6 | 1617.0 | 1601.6 | 1612.8 | 1614.5 | 1643.2 | 1637.9 | 0.9% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8% |
| Ethanol-Flex Fuel ICE | 128.3 | 133.4 | 137.7 | 139.3 | 139.2 | 138.6 | 140.4 | 139.8 | 138.1 | 139.3 | 139.2 | 142.3 | 140.8 | 1.1% |
| Ethanol ICE | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 5.0% |
| Electric Vehicle | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.1% |
| Electric-Diesel Hybrid | 2.0 | 2.4 | 2.6 | 2.7 | 3.2 | 3.2 | 3.3 | 3.6 | 3.4 | 3.4 | 3.5 | 3.7 | 3.9 | 12.9% |
| Electric-Gasoline Hybrid | 63.6 | 67.2 | 70.4 | 71.3 | 71.7 | 71.5 | 72.4 | 72.1 | 71.5 | 72.2 | 72.5 | 73.6 | 73.7 | 9.8% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.8% |
| Compressed Natural Gas Bi-fuel | 6.8 | 7.0 | 7.2 | 7.3 | 7.3 | 7.3 | 7.4 | 7.4 | 7.3 | 7.4 | 7.4 | 7.5 | 7.5 | 1.1% |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.9% |
| Liquefied Petroleum Gas Bi-fuel | 22.6 | 23.3 | 23.9 | 24.2 | 24.3 | 24.2 | 24.5 | 24.5 | 24.2 | 24.4 | 24.4 | 24.9 | 24.8 | 1.1% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 224.4 | 234.5 | 243.0 | 245.9 | 246.8 | 246.0 | 249.2 | 248.6 | 245.8 | 248.0 | 248.3 | 253.3 | 251.9 | 2.4% |

**Table 40. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**South Atlantic**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Alternative Light Truck Sales | 13.05 | 13.20 | 13.33 | 13.34 | 13.35 | 13.34 | 13.34 | 13.33 | 13.31 | 13.33 | 13.33 | 13.36 | 13.33 | 1.3% |
| Total New Truck Sales | 1719.6 | 1776.8 | 1823.2 | 1843.2 | 1848.7 | 1845.0 | 1867.8 | 1865.6 | 1847.4 | 1860.8 | 1862.7 | 1896.5 | 1889.9 | 1.1% |
| | | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 12.20 | 12.36 | 12.50 | 12.52 | 12.54 | 12.53 | 12.55 | 12.54 | 12.52 | 12.53 | 12.53 | 12.56 | 12.55 | 1.7% |
| EPACT Legislative Alternative Sales | 54.43 | 56.20 | 57.63 | 58.23 | 58.38 | 58.23 | 58.94 | 58.85 | 58.27 | 58.70 | 58.76 | 59.82 | 59.62 | 0.7% |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| | | | | | | | | | | | | | | |
| Total Vehicles Sales | 3480.1 | 3589.5 | 3678.0 | 3713.7 | 3720.9 | 3710.0 | 3753.0 | 3746.2 | 3709.6 | 3736.5 | 3740.5 | 3808.3 | 3794.9 | 0.8% |

**Table 40. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**South Atlantic**

1/ Includes personal and fleet light-duty cars.
2/ Includes personal and fleet light-duty trucks.
ICE = Internal combustion engine.
EPACT = Energy Policy Act of 1992.
ZEVP = Zero emission vehicles from the low emission vehicle program.
N/A = Not applicable.
Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 41. Light-Duty Vehicle Sales by Technolgy Type**
**(Thousands)**
**East South Central**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 520.8 | 495.3 | 480.9 | 486.6 | 478.5 | 457.2 | 461.4 | 467.0 | 461.4 | 463.0 | 476.6 | 477.4 | 476.2 |
| TDI Diesel ICE | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.1 |
| Total Conventional | 521.8 | 496.4 | 481.9 | 487.6 | 479.5 | 458.2 | 462.4 | 468.0 | 462.4 | 464.0 | 477.7 | 478.4 | 477.2 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 12.6 | 29.6 | 28.4 | 28.7 | 28.2 | 26.6 | 27.0 | 27.6 | 27.2 | 27.4 | 28.5 | 28.6 | 28.5 |
| Ethanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 |
| Electric Vehicle | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Electric-Diesel Hybrid | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.6 | 1.0 | 1.1 | 1.2 | 1.3 | 1.4 |
| Electric-Gasoline Hybrid | 2.2 | 4.8 | 6.7 | 10.0 | 15.4 | 15.2 | 18.8 | 22.4 | 23.6 | 24.5 | 26.1 | 26.8 | 27.4 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 0.7 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Liquefied Petroleum Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Liquefied Petroleum Gas Bi-fuel | 2.6 | 2.9 | 2.7 | 2.7 | 2.6 | 2.5 | 2.5 | 2.4 | 2.4 | 2.3 | 2.3 | 2.3 | 2.3 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 18.4 | 38.4 | 39.0 | 42.5 | 47.5 | 45.4 | 49.5 | 53.9 | 55.1 | 56.2 | 59.1 | 60.0 | 60.6 |
| Percent Alternative Car Sales | 3.41 | 7.19 | 7.48 | 8.02 | 9.01 | 9.02 | 9.67 | 10.33 | 10.64 | 10.81 | 11.01 | 11.15 | 11.27 |
| Total New Car Sales | 540.2 | 534.8 | 520.9 | 530.2 | 527.0 | 503.6 | 511.9 | 521.9 | 517.4 | 520.2 | 536.8 | 538.5 | 537.8 |
| New Light Truck Sales 2/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 424.8 | 385.3 | 375.0 | 385.8 | 388.4 | 375.7 | 383.6 | 396.2 | 394.8 | 399.6 | 414.8 | 419.4 | 419.9 |
| TDI Diesel ICE | 20.6 | 34.6 | 34.9 | 37.3 | 36.2 | 36.1 | 37.3 | 34.7 | 35.3 | 35.5 | 36.3 | 35.0 | 35.7 |
| Total Conventional | 445.4 | 419.9 | 409.9 | 423.1 | 424.6 | 411.8 | 420.9 | 430.8 | 430.1 | 435.2 | 451.1 | 454.4 | 455.6 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 14.3 | 34.6 | 33.4 | 34.8 | 34.8 | 33.4 | 34.6 | 36.0 | 35.8 | 36.3 | 38.2 | 38.7 | 38.8 |
| Ethanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Electric Vehicle | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Electric-Diesel Hybrid | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 |
| Electric-Gasoline Hybrid | 1.3 | 2.5 | 3.6 | 6.1 | 9.7 | 9.7 | 12.6 | 15.5 | 16.3 | 17.0 | 18.0 | 18.5 | 19.0 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 1.6 | 1.8 | 1.8 | 1.9 | 1.9 | 1.8 | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.1 | 2.1 |
| Liquefied Petroleum Gas ICE | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Liquefied Petroleum Gas Bi-fuel | 5.3 | 6.1 | 6.0 | 6.2 | 6.3 | 6.1 | 6.3 | 6.4 | 6.4 | 6.5 | 6.8 | 6.8 | 6.9 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 22.9 | 45.3 | 45.1 | 49.4 | 53.2 | 51.4 | 55.9 | 60.4 | 61.2 | 62.6 | 65.8 | 67.0 | 67.7 |
| Percent Alternative Light Truck Sales | 4.89 | 9.75 | 9.92 | 10.46 | 11.13 | 11.11 | 11.72 | 12.29 | 12.46 | 12.57 | 12.74 | 12.85 | 12.93 |

**Table 41. Light-Duty Vehicle Sales by Technolgy Type**
**(Thousands)**
**East South Central**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 468.2 | 465.2 | 455.0 | 472.5 | 477.8 | 463.2 | 476.7 | 491.2 | 491.3 | 497.8 | 516.9 | 521.4 | 523.3 |
| | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 4.10 | 8.38 | 8.62 | 9.17 | 10.02 | 10.02 | 10.66 | 11.28 | 11.53 | 11.67 | 11.86 | 11.99 | 12.09 |
| EPACT Legislative Alternative Sales | 13.40 | 15.99 | 15.53 | 15.94 | 15.95 | 15.32 | 15.62 | 15.96 | 15.84 | 15.92 | 16.41 | 16.54 | 16.58 |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Total Vehicles Sales | 1008.5 | 1000.0 | 975.9 | 1002.7 | 1004.8 | 966.9 | 988.7 | 1013.1 | 1008.8 | 1018.0 | 1053.7 | 1059.9 | 1061.1 |

**Table 41. Light-Duty Vehicle Sales by Technolgy Type**
**(Thousands)**
**East South Central**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 479.0 | 489.1 | 496.4 | 497.3 | 494.3 | 489.3 | 491.3 | 486.9 | 479.3 | 479.7 | 477.2 | 482.7 | 477.9 | -0.1% |
| TDI Diesel ICE | 1.1 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 1.9% |
| Total Conventional | 480.1 | 490.3 | 497.6 | 498.5 | 495.6 | 490.5 | 492.6 | 488.2 | 480.6 | 481.0 | 478.6 | 484.2 | 479.5 | -0.1% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.8% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.8% |
| Ethanol-Flex Fuel ICE | 28.8 | 29.6 | 30.2 | 30.3 | 30.0 | 29.6 | 29.8 | 29.5 | 28.9 | 28.9 | 28.7 | 29.2 | 28.8 | -0.1% |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 4.9% |
| Electric Vehicle | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -0.8% |
| Electric-Diesel Hybrid | 1.5 | 1.8 | 1.9 | 1.9 | 2.2 | 2.2 | 2.2 | 2.4 | 2.3 | 2.3 | 2.3 | 2.4 | 2.4 | 13.3% |
| Electric-Gasoline Hybrid | 28.2 | 29.5 | 30.6 | 30.7 | 30.6 | 30.3 | 30.4 | 30.1 | 29.7 | 29.7 | 29.6 | 29.9 | 29.7 | 7.9% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.4% |
| Compressed Natural Gas Bi-fuel | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | -0.7% |
| Liquefied Petroleum Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.7% |
| Liquefied Petroleum Gas Bi-fuel | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | -0.8% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 61.8 | 64.2 | 66.0 | 66.3 | 66.1 | 65.4 | 65.8 | 65.3 | 64.1 | 64.2 | 63.8 | 64.8 | 64.2 | 2.2% |
| Percent Alternative Car Sales | 11.40 | 11.57 | 11.72 | 11.73 | 11.77 | 11.77 | 11.79 | 11.80 | 11.77 | 11.77 | 11.77 | 11.80 | 11.81 | 2.1% |
| Total New Car Sales | 541.9 | 554.4 | 563.7 | 564.8 | 561.7 | 556.0 | 558.4 | 553.5 | 544.7 | 545.2 | 542.5 | 549.0 | 543.7 | 0.1% |
| New Light Truck Sales 2/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 424.2 | 434.2 | 442.1 | 443.6 | 440.7 | 437.5 | 439.6 | 435.8 | 429.8 | 430.2 | 427.5 | 432.1 | 425.9 | 0.4% |
| TDI Diesel ICE | 36.2 | 37.6 | 38.2 | 38.8 | 40.0 | 39.2 | 39.9 | 40.2 | 38.7 | 38.6 | 39.0 | 39.8 | 41.7 | 0.8% |
| Total Conventional | 460.3 | 471.8 | 480.3 | 482.4 | 480.7 | 476.7 | 479.5 | 476.0 | 468.5 | 468.9 | 466.5 | 471.9 | 467.6 | 0.4% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.5% |
| Ethanol-Flex Fuel ICE | 39.3 | 40.6 | 41.7 | 41.9 | 41.6 | 41.1 | 41.4 | 41.0 | 40.2 | 40.3 | 40.0 | 40.7 | 40.0 | 0.6% |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 6.3% |
| Electric Vehicle | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.6% |
| Electric-Diesel Hybrid | 0.6 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 12.2% |
| Electric-Gasoline Hybrid | 19.6 | 20.6 | 21.4 | 21.6 | 21.5 | 21.3 | 21.5 | 21.2 | 20.9 | 21.0 | 21.0 | 21.2 | 21.0 | 9.3% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.9% |
| Compressed Natural Gas Bi-fuel | 2.1 | 2.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 | 2.1 | 2.1 | 2.2 | 2.1 | 0.6% |
| Liquefied Petroleum Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7% |
| Liquefied Petroleum Gas Bi-fuel | 6.9 | 7.1 | 7.3 | 7.3 | 7.3 | 7.2 | 7.3 | 7.2 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 0.6% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 69.0 | 71.6 | 73.8 | 74.2 | 74.0 | 73.3 | 73.7 | 73.1 | 71.8 | 72.0 | 71.7 | 72.7 | 71.8 | 1.9% |
| Percent Alternative Light Truck Sales | 13.03 | 13.18 | 13.32 | 13.33 | 13.34 | 13.32 | 13.33 | 13.31 | 13.29 | 13.31 | 13.31 | 13.34 | 13.31 | 1.3% |

**Table 41. Light-Duty Vehicle Sales by Technolgy Type**
**(Thousands)**
**East South Central**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 529.3 | 543.4 | 554.1 | 556.6 | 554.6 | 550.0 | 553.2 | 549.1 | 540.3 | 540.9 | 538.1 | 544.6 | 539.4 | 0.6% |
| Percent Total Alternative Sales | 12.21 | 12.37 | 12.51 | 12.53 | 12.55 | 12.54 | 12.56 | 12.55 | 12.53 | 12.54 | 12.54 | 12.57 | 12.56 | 1.7% |
| EPACT Legislative Alternative Sales | 16.75 | 17.19 | 17.51 | 17.58 | 17.51 | 17.36 | 17.46 | 17.32 | 17.04 | 17.06 | 16.98 | 17.18 | 17.01 | 0.3% |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Vehicles Sales | 1071.2 | 1097.9 | 1117.7 | 1121.4 | 1116.3 | 1106.0 | 1111.6 | 1102.6 | 1085.0 | 1086.1 | 1080.6 | 1093.5 | 1083.1 | 0.3% |

**Table 41. Light-Duty Vehicle Sales by Technolgy Type**
**(Thousands)**
**East South Central**

1/ Includes personal and fleet light-duty cars.
2/ Includes personal and fleet light-duty trucks.
ICE = Internal combustion engine.
EPACT = Energy Policy Act of 1992.
ZEVP = Zero emission vehicles from the low emission vehicle program.
N/A = Not applicable.
Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 42. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**West South Central**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 943.0 | 895.0 | 868.7 | 879.7 | 867.5 | 832.6 | 844.4 | 859.2 | 853.4 | 861.2 | 891.6 | 898.2 | 900.9 |
| TDI Diesel ICE | 1.9 | 1.8 | 1.8 | 1.9 | 1.8 | 1.8 | 1.9 | 1.8 | 1.8 | 1.9 | 2.0 | 1.9 | 2.0 |
| Total Conventional | 944.9 | 896.8 | 870.5 | 881.6 | 869.4 | 834.4 | 846.3 | 861.0 | 855.2 | 863.1 | 893.6 | 900.1 | 902.9 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 22.8 | 53.5 | 51.4 | 51.9 | 51.1 | 48.4 | 49.4 | 50.7 | 50.3 | 50.9 | 53.4 | 53.8 | 54.0 |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 |
| Electric Vehicle | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Electric-Diesel Hybrid | 0.3 | 0.2 | 0.3 | 0.4 | 0.5 | 0.5 | 0.6 | 1.0 | 1.9 | 2.0 | 2.3 | 2.5 | 2.7 |
| Electric-Gasoline Hybrid | 3.9 | 8.7 | 12.0 | 18.0 | 28.0 | 27.6 | 34.3 | 41.2 | 43.5 | 45.5 | 48.8 | 50.4 | 51.8 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 1.4 | 1.5 | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Liquefied Petroleum Gas ICE | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Liquefied Petroleum Gas Bi-fuel | 4.6 | 5.2 | 4.9 | 4.9 | 4.8 | 4.5 | 4.5 | 4.5 | 4.4 | 4.3 | 4.4 | 4.4 | 4.4 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 33.4 | 69.5 | 70.4 | 76.9 | 86.2 | 82.8 | 90.6 | 99.2 | 101.8 | 104.5 | 110.6 | 112.9 | 114.6 |
| Percent Alternative Car Sales | 3.42 | 7.19 | 7.49 | 8.03 | 9.02 | 9.02 | 9.67 | 10.33 | 10.64 | 10.80 | 11.01 | 11.15 | 11.26 |
| Total New Car Sales | 978.3 | 966.3 | 940.9 | 958.6 | 955.5 | 917.2 | 936.9 | 960.2 | 957.1 | 967.6 | 1004.1 | 1013.0 | 1017.5 |
| New Light Truck Sales 2/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 769.6 | 699.5 | 679.2 | 699.2 | 704.6 | 684.8 | 703.4 | 730.1 | 731.7 | 745.0 | 777.4 | 790.5 | 795.7 |
| TDI Diesel ICE | 36.9 | 58.8 | 61.0 | 65.6 | 65.2 | 65.1 | 66.7 | 62.3 | 63.8 | 64.3 | 66.3 | 64.3 | 66.1 |
| Total Conventional | 806.4 | 758.3 | 740.2 | 764.8 | 769.8 | 749.9 | 770.1 | 792.4 | 795.4 | 809.3 | 843.7 | 854.8 | 861.7 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 25.9 | 62.7 | 60.4 | 63.1 | 63.2 | 60.8 | 63.5 | 66.3 | 66.3 | 67.7 | 71.5 | 72.9 | 73.5 |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Electric Vehicle | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Electric-Diesel Hybrid | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.8 | 0.8 | 0.9 | 1.0 | 1.1 |
| Electric-Gasoline Hybrid | 2.3 | 4.5 | 6.6 | 11.1 | 17.6 | 17.7 | 23.0 | 28.4 | 30.1 | 31.5 | 33.6 | 34.8 | 35.9 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 2.9 | 3.3 | 3.3 | 3.4 | 3.4 | 3.4 | 3.5 | 3.6 | 3.6 | 3.7 | 3.8 | 3.9 | 3.9 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Liquefied Petroleum Gas Bi-fuel | 9.6 | 11.0 | 10.8 | 11.2 | 11.4 | 11.1 | 11.4 | 11.9 | 11.9 | 12.1 | 12.7 | 12.9 | 13.0 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 41.5 | 82.2 | 81.7 | 89.5 | 96.4 | 93.8 | 102.4 | 111.2 | 113.3 | 116.5 | 123.3 | 126.2 | 128.2 |
| Percent Alternative Light Truck Sales | 4.89 | 9.78 | 9.94 | 10.48 | 11.13 | 11.11 | 11.73 | 12.30 | 12.47 | 12.58 | 12.75 | 12.86 | 12.95 |
| Total New Truck Sales | 847.9 | 840.5 | 821.9 | 854.3 | 866.3 | 843.7 | 872.5 | 903.6 | 908.8 | 925.8 | 967.0 | 981.0 | 989.9 |
| Percent Total Alternative Sales | 4.10 | 8.39 | 8.63 | 9.18 | 10.03 | 10.03 | 10.66 | 11.29 | 11.53 | 11.67 | 11.87 | 11.99 | 12.10 |
| EPACT Legislative Alternative Sales | 24.27 | 28.89 | 28.05 | 28.82 | 28.92 | 27.90 | 28.59 | 29.36 | 29.29 | 29.61 | 30.70 | 31.11 | 31.36 |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Vehicles Sales | 1826.2 | 1806.8 | 1762.8 | 1812.9 | 1821.8 | 1760.9 | 1809.4 | 1863.8 | 1865.8 | 1893.5 | 1971.1 | 1994.0 | 2007.4 |

**Table 42. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**West South Central**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 911.1 | 935.4 | 954.5 | 961.3 | 960.5 | 955.7 | 964.5 | 960.6 | 950.3 | 955.8 | 955.3 | 970.9 | 965.8 | 0.3% |
| TDI Diesel ICE | 2.1 | 2.2 | 2.3 | 2.3 | 2.4 | 2.4 | 2.5 | 2.6 | 2.6 | 2.7 | 2.8 | 2.9 | 3.2 | 2.5% |
| Total Conventional | 913.2 | 937.6 | 956.8 | 963.6 | 962.9 | 958.1 | 967.0 | 963.3 | 952.9 | 958.4 | 958.1 | 973.8 | 969.0 | 0.3% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.4% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.5% |
| Ethanol-Flex Fuel ICE | 54.8 | 56.6 | 58.1 | 58.5 | 58.4 | 57.9 | 58.5 | 58.1 | 57.2 | 57.6 | 57.5 | 58.6 | 58.1 | 0.3% |
| Ethanol ICE | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 5.4% |
| Electric Vehicle | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | -0.4% |
| Electric-Diesel Hybrid | 2.9 | 3.4 | 3.6 | 3.6 | 4.2 | 4.2 | 4.3 | 4.7 | 4.5 | 4.5 | 4.5 | 4.8 | 4.9 | 14.0% |
| Electric-Gasoline Hybrid | 53.6 | 56.3 | 58.7 | 59.3 | 59.3 | 59.1 | 59.7 | 59.3 | 58.8 | 59.2 | 59.2 | 60.1 | 59.9 | 8.4% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -2.0% |
| Compressed Natural Gas Bi-fuel | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | -0.2% |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 1.2% |
| Liquefied Petroleum Gas Bi-fuel | 4.5 | 4.6 | 4.7 | 4.7 | 4.7 | 4.7 | 4.8 | 4.7 | 4.7 | 4.7 | 4.7 | 4.8 | 4.8 | -0.4% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 117.5 | 122.7 | 127.0 | 128.1 | 128.5 | 127.8 | 129.2 | 128.8 | 127.0 | 127.8 | 127.7 | 130.2 | 129.6 | 2.6% |
| Percent Alternative Car Sales | 11.40 | 11.57 | 11.71 | 11.73 | 11.77 | 11.77 | 11.78 | 11.79 | 11.76 | 11.77 | 11.76 | 11.79 | 11.80 | 2.1% |
| Total New Car Sales | 1030.7 | 1060.3 | 1083.7 | 1091.7 | 1091.4 | 1085.9 | 1096.2 | 1092.0 | 1079.9 | 1086.2 | 1085.8 | 1104.0 | 1098.6 | 0.5% |
| New Light Truck Sales 2/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 807.8 | 831.5 | 851.0 | 858.5 | 857.5 | 855.7 | 864.1 | 861.1 | 853.4 | 858.3 | 857.0 | 870.5 | 862.2 | 0.9% |
| TDI Diesel ICE | 67.6 | 70.7 | 72.3 | 73.8 | 76.3 | 75.3 | 77.1 | 77.9 | 75.4 | 75.7 | 76.7 | 78.5 | 82.4 | 1.4% |
| Total Conventional | 875.5 | 902.1 | 923.3 | 932.2 | 933.8 | 931.0 | 941.2 | 939.0 | 928.8 | 934.0 | 933.6 | 949.0 | 944.6 | 0.9% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.4% |
| Ethanol-Flex Fuel ICE | 74.9 | 77.8 | 80.2 | 81.0 | 80.9 | 80.5 | 81.4 | 80.9 | 79.8 | 80.4 | 80.3 | 81.9 | 80.9 | 1.1% |
| Ethanol ICE | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 6.6% |
| Electric Vehicle | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.1% |
| Electric-Diesel Hybrid | 1.2 | 1.5 | 1.6 | 1.6 | 1.9 | 1.9 | 2.0 | 2.2 | 2.0 | 2.0 | 2.1 | 2.2 | 2.3 | 12.9% |
| Electric-Gasoline Hybrid | 37.3 | 39.3 | 41.2 | 41.7 | 41.8 | 41.7 | 42.1 | 41.9 | 41.5 | 41.8 | 41.9 | 42.5 | 42.5 | 9.8% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -3.4% |
| Compressed Natural Gas Bi-fuel | 4.0 | 4.1 | 4.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.2 | 4.3 | 4.3 | 4.3 | 4.3 | 1.1% |
| Liquefied Petroleum Gas ICE | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 3.6% |
| Liquefied Petroleum Gas Bi-fuel | 13.2 | 13.6 | 14.0 | 14.1 | 14.1 | 14.1 | 14.2 | 14.2 | 14.1 | 14.1 | 14.1 | 14.4 | 14.3 | 1.1% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 131.4 | 137.1 | 142.0 | 143.5 | 143.9 | 143.2 | 144.9 | 144.3 | 142.5 | 143.6 | 143.5 | 146.2 | 145.2 | 2.4% |
| Percent Alternative Light Truck Sales | 13.05 | 13.20 | 13.33 | 13.34 | 13.35 | 13.33 | 13.34 | 13.32 | 13.30 | 13.32 | 13.32 | 13.35 | 13.33 | 1.3% |
| Total New Truck Sales | 1006.8 | 1039.3 | 1065.3 | 1075.8 | 1077.7 | 1074.2 | 1086.1 | 1083.3 | 1071.3 | 1077.6 | 1077.2 | 1095.2 | 1089.8 | 1.1% |
| Percent Total Alternative Sales | 12.21 | 12.38 | 12.51 | 12.53 | 12.55 | 12.55 | 12.56 | 12.55 | 12.53 | 12.54 | 12.54 | 12.57 | 12.56 | 1.7% |
| EPACT Legislative Alternative Sales | 31.87 | 32.87 | 33.67 | 33.98 | 34.03 | 33.91 | 34.27 | 34.17 | 33.79 | 33.99 | 33.98 | 34.55 | 34.38 | 0.7% |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Vehicles Sales | 2037.6 | 2099.6 | 2149.0 | 2167.5 | 2169.1 | 2160.1 | 2182.3 | 2175.4 | 2151.3 | 2163.8 | 2163.0 | 2199.2 | 2188.5 | 0.8% |

**Table 42. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**West South Central**

1/ Includes personal and fleet light-duty cars.
2/ Includes personal and fleet light-duty trucks.
ICE = Internal combustion engine.
EPACT = Energy Policy Act of 1992.
ZEVP = Zero emission vehicles from the low emission vehicle program.
N/A = Not applicable.
Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 43. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Mountaiin**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 514.4 | 495.7 | 487.6 | 499.6 | 497.7 | 482.4 | 493.8 | 506.9 | 507.9 | 516.9 | 539.7 | 548.2 | 554.4 |
| TDI Diesel ICE | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 |
| Total Conventional | 515.5 | 496.8 | 488.7 | 500.7 | 498.8 | 483.6 | 494.9 | 508.0 | 509.0 | 518.1 | 541.0 | 549.4 | 555.7 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 12.5 | 29.6 | 28.8 | 29.4 | 29.3 | 28.1 | 28.9 | 29.9 | 30.0 | 30.6 | 32.3 | 32.9 | 33.2 |
| Ethanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Electric Vehicle | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Electric-Diesel Hybrid | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.7 | 1.2 | 1.3 | 1.5 | 1.6 | 1.7 |
| Electric-Gasoline Hybrid | 2.2 | 5.0 | 6.9 | 10.4 | 16.5 | 16.4 | 20.6 | 25.0 | 26.6 | 28.1 | 30.3 | 31.6 | 32.7 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Liquefied Petroleum Gas Bi-fuel | 2.5 | 2.9 | 2.8 | 2.8 | 2.8 | 2.6 | 2.6 | 2.7 | 2.6 | 2.6 | 2.6 | 2.7 | 2.7 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 18.3 | 38.7 | 39.7 | 43.9 | 49.9 | 48.4 | 53.6 | 59.3 | 61.4 | 63.6 | 67.9 | 69.9 | 71.5 |
| Percent Alternative Car Sales | 3.44 | 7.22 | 7.51 | 8.06 | 9.10 | 9.10 | 9.77 | 10.45 | 10.77 | 10.94 | 11.15 | 11.28 | 11.40 |
| Total New Car Sales | 533.8 | 535.5 | 528.4 | 544.7 | 548.8 | 532.0 | 548.5 | 567.3 | 570.5 | 581.8 | 608.8 | 619.3 | 627.2 |
| New Light Truck Sales 2/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 417.8 | 383.1 | 379.3 | 395.2 | 401.3 | 393.8 | 407.9 | 427.7 | 432.2 | 443.8 | 467.3 | 479.3 | 486.6 |
| TDI Diesel ICE | 22.2 | 37.4 | 36.4 | 39.4 | 40.8 | 41.1 | 42.9 | 40.3 | 41.8 | 42.6 | 44.0 | 43.0 | 44.4 |
| Total Conventional | 440.0 | 420.5 | 415.7 | 434.6 | 442.1 | 434.9 | 450.8 | 468.0 | 474.0 | 486.4 | 511.3 | 522.4 | 531.0 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 14.1 | 34.4 | 33.7 | 35.7 | 36.0 | 35.0 | 36.8 | 38.8 | 39.2 | 40.3 | 43.0 | 44.2 | 44.9 |
| Ethanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| Electric Vehicle | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 |
| Electric-Diesel Hybrid | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.5 | 0.5 | 0.6 | 0.7 | 0.7 |
| Electric-Gasoline Hybrid | 1.3 | 2.6 | 3.8 | 6.4 | 10.4 | 10.5 | 13.8 | 17.2 | 18.4 | 19.4 | 20.8 | 21.7 | 22.6 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 1.6 | 1.8 | 1.8 | 1.9 | 2.0 | 1.9 | 2.0 | 2.1 | 2.1 | 2.2 | 2.3 | 2.4 | 2.4 |
| Liquefied Petroleum Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Liquefied Petroleum Gas Bi-fuel | 5.3 | 6.1 | 6.1 | 6.4 | 6.5 | 6.4 | 6.7 | 7.0 | 7.1 | 7.3 | 7.7 | 7.9 | 8.0 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Table 43. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Mountaiin**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Alternatives | 22.7 | 45.3 | 45.8 | 50.8 | 55.4 | 54.4 | 60.0 | 65.8 | 67.7 | 70.2 | 75.0 | 77.4 | 79.3 |
| | | | | | | | | | | | | | |
| Percent Alternative Light Truck Sales | 4.90 | 9.72 | 9.93 | 10.47 | 11.14 | 11.12 | 11.74 | 12.33 | 12.50 | 12.62 | 12.79 | 12.90 | 12.99 |
| Total New Truck Sales | 462.7 | 465.8 | 461.5 | 485.4 | 497.5 | 489.3 | 510.8 | 533.9 | 541.7 | 556.6 | 586.3 | 599.7 | 610.2 |
| | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 4.12 | 8.39 | 8.64 | 9.20 | 10.07 | 10.07 | 10.72 | 11.36 | 11.61 | 11.76 | 11.95 | 12.08 | 12.18 |
| EPACT Legislative Alternative Sales | 13.24 | 16.01 | 15.75 | 16.38 | 16.61 | 16.18 | 16.74 | 17.35 | 17.46 | 17.80 | 18.62 | 19.02 | 19.33 |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Total Vehicles Sales | 996.5 | 1001.3 | 989.9 | 1030.1 | 1046.3 | 1021.3 | 1059.3 | 1101.1 | 1112.2 | 1138.4 | 1195.1 | 1219.1 | 1237.5 |

**Table 43. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Mountaiin**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 565.4 | 585.3 | 602.1 | 611.4 | 615.8 | 617.7 | 628.5 | 631.1 | 629.3 | 638.1 | 643.0 | 658.8 | 660.7 | 1.2% |
| TDI Diesel ICE | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.9 | 2.0 | 2.1 | 2.3 | 3.2% |
| Total Conventional | 566.8 | 586.7 | 603.6 | 612.9 | 617.5 | 619.4 | 630.2 | 632.9 | 631.2 | 640.0 | 645.0 | 660.9 | 663.1 | 1.2% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2% |
| Ethanol-Flex Fuel ICE | 34.0 | 35.4 | 36.6 | 37.2 | 37.4 | 37.4 | 38.1 | 38.2 | 37.9 | 38.4 | 38.7 | 39.8 | 39.8 | 1.2% |
| Ethanol ICE | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 5.7% |
| Electric Vehicle | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5% |
| Electric-Diesel Hybrid | 1.9 | 2.2 | 2.4 | 2.4 | 2.8 | 2.8 | 2.9 | 3.3 | 3.1 | 3.1 | 3.2 | 3.4 | 3.5 | 14.8% |
| Electric-Gasoline Hybrid | 34.1 | 36.1 | 37.9 | 38.6 | 38.9 | 39.1 | 39.8 | 39.9 | 39.8 | 40.4 | 40.8 | 41.7 | 41.9 | 9.3% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0% |
| Compressed Natural Gas Bi-fuel | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 0.6% |
| Liquefied Petroleum Gas ICE | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.5% |
| Liquefied Petroleum Gas Bi-fuel | 2.8 | 2.9 | 3.0 | 3.0 | 3.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 | 3.3 | 3.3 | 0.5% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 73.9 | 77.8 | 81.2 | 82.6 | 83.5 | 83.7 | 85.3 | 85.7 | 85.2 | 86.4 | 87.1 | 89.4 | 89.8 | 3.6% |
| Percent Alternative Car Sales | 11.54 | 11.71 | 11.85 | 11.87 | 11.91 | 11.90 | 11.92 | 11.93 | 11.89 | 11.90 | 11.89 | 11.92 | 11.92 | 2.1% |
| Total New Car Sales | 640.7 | 664.6 | 684.8 | 695.5 | 701.0 | 703.1 | 715.5 | 718.6 | 716.4 | 726.4 | 732.1 | 750.4 | 752.9 | 1.4% |
| New Light Truck Sales 2/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 498.3 | 517.1 | 533.7 | 542.8 | 546.5 | 549.9 | 559.8 | 562.4 | 562.0 | 569.9 | 573.7 | 587.4 | 586.3 | 1.8% |
| TDI Diesel ICE | 45.6 | 48.0 | 49.5 | 50.8 | 53.1 | 52.7 | 54.3 | 55.3 | 53.9 | 54.5 | 55.7 | 57.5 | 60.8 | 2.0% |
| Total Conventional | 543.9 | 565.2 | 583.2 | 593.7 | 599.5 | 602.5 | 614.1 | 617.7 | 615.9 | 624.4 | 629.3 | 644.9 | 647.2 | 1.8% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7% |
| Ethanol-Flex Fuel ICE | 46.2 | 48.4 | 50.3 | 51.3 | 51.6 | 51.7 | 52.7 | 52.9 | 52.6 | 53.4 | 53.7 | 55.3 | 55.0 | 2.0% |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 6.6% |
| Electric Vehicle | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 2.0% |
| Electric-Diesel Hybrid | 0.8 | 1.0 | 1.0 | 1.1 | 1.3 | 1.3 | 1.3 | 1.5 | 1.4 | 1.4 | 1.5 | 1.6 | 1.6 | 13.7% |
| Electric-Gasoline Hybrid | 23.6 | 25.1 | 26.5 | 27.0 | 27.3 | 27.4 | 28.0 | 28.0 | 28.0 | 28.4 | 28.7 | 29.4 | 29.6 | 10.7% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2% |
| Compressed Natural Gas Bi-fuel | 2.5 | 2.6 | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 3.0 | 2.0% |
| Liquefied Petroleum Gas ICE | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 2.9% |
| Liquefied Petroleum Gas Bi-fuel | 8.2 | 8.5 | 8.8 | 9.0 | 9.1 | 9.1 | 9.3 | 9.4 | 9.3 | 9.5 | 9.5 | 9.8 | 9.8 | 2.0% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |

**Table 43. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Mountaiin**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total Alternatives | 81.9 | 86.2 | 90.0 | 91.7 | 92.6 | 93.0 | 94.8 | 95.2 | 94.7 | 96.2 | 96.9 | 99.5 | 99.7 | 3.3% |
| | | | | | | | | | | | | | | |
| Percent Alternative Light Truck Sales | 13.09 | 13.24 | 13.37 | 13.38 | 13.38 | 13.37 | 13.37 | 13.35 | 13.33 | 13.35 | 13.35 | 13.37 | 13.34 | 1.3% |
| Total New Truck Sales | 625.8 | 651.4 | 673.2 | 685.3 | 692.2 | 695.5 | 708.9 | 712.8 | 710.7 | 720.6 | 726.2 | 744.4 | 746.8 | 2.0% |
| | | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 12.30 | 12.47 | 12.60 | 12.62 | 12.64 | 12.63 | 12.64 | 12.63 | 12.61 | 12.62 | 12.62 | 12.64 | 12.63 | 1.7% |
| EPACT Legislative Alternative Sales | 19.81 | 20.60 | 21.28 | 21.65 | 21.86 | 21.95 | 22.37 | 22.49 | 22.42 | 22.73 | 22.91 | 23.48 | 23.56 | 1.6% |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| | | | | | | | | | | | | | | |
| Total Vehicles Sales | 1266.6 | 1315.9 | 1358.0 | 1380.8 | 1393.1 | 1398.6 | 1424.4 | 1431.4 | 1427.0 | 1447.1 | 1458.3 | 1494.8 | 1499.7 | 1.7% |

**Table 43. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Mountaiin**

1/ Includes personal and fleet light-duty cars.
2/ Includes personal and fleet light-duty trucks.
ICE = Internal combustion engine.
EPACT = Energy Policy Act of 1992.
ZEVP = Zero emission vehicles from the low emission vehicle program.
N/A = Not applicable.
Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 44. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Pacific**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1379.8 | 1302.6 | 1260.0 | 1272.2 | 1250.0 | 1197.2 | 1212.1 | 1120.6 | 992.1 | 998.8 | 1033.7 | 1023.5 | 1025.2 |
| TDI Diesel ICE | 3.0 | 3.1 | 2.7 | 2.8 | 3.2 | 3.1 | 3.0 | 3.0 | 3.3 | 3.4 | 3.5 | 3.4 | 3.4 |
| Total Conventional | 1382.8 | 1305.7 | 1262.7 | 1275.0 | 1253.2 | 1200.3 | 1215.0 | 1123.6 | 995.4 | 1002.2 | 1037.2 | 1026.9 | 1028.6 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 33.4 | 77.8 | 74.5 | 75.0 | 73.6 | 69.6 | 71.0 | 72.7 | 72.0 | 72.8 | 76.1 | 76.8 | 76.9 |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Electric Vehicle | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.6 | 0.8 | 0.9 | 1.1 | 1.4 | 2.1 | 4.4 | 7.6 |
| Electric-Diesel Hybrid | 0.4 | 0.4 | 0.4 | 0.5 | 0.8 | 0.8 | 1.0 | 4.6 | 13.7 | 14.5 | 15.7 | 17.4 | 17.5 |
| Electric-Gasoline Hybrid | 6.0 | 13.3 | 17.8 | 26.7 | 42.0 | 41.3 | 51.0 | 168.4 | 282.0 | 286.9 | 297.3 | 314.2 | 314.2 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Compressed Natural Gas Bi-fuel | 2.0 | 2.1 | 2.1 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| Liquefied Petroleum Gas ICE | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.8 |
| Liquefied Petroleum Gas Bi-fuel | 6.8 | 7.6 | 7.2 | 7.1 | 6.9 | 6.5 | 6.5 | 6.5 | 6.3 | 6.2 | 6.2 | 6.3 | 6.3 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 |
| Total Alternatives | 49.3 | 101.8 | 102.6 | 112.0 | 126.0 | 121.1 | 132.5 | 255.4 | 377.5 | 384.4 | 400.1 | 421.9 | 425.5 |
| Percent Alternative Car Sales | 3.44 | 7.23 | 7.52 | 8.07 | 9.14 | 9.16 | 9.83 | 18.52 | 27.50 | 27.72 | 27.84 | 29.12 | 29.26 |
| Total New Car Sales | 1432.1 | 1407.5 | 1365.3 | 1387.0 | 1379.3 | 1321.4 | 1347.5 | 1379.0 | 1372.9 | 1386.5 | 1437.3 | 1448.8 | 1454.2 |
| New Light Truck Sales 2/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1118.3 | 997.0 | 982.6 | 1008.9 | 992.6 | 964.7 | 996.3 | 984.8 | 921.3 | 935.5 | 981.8 | 992.2 | 1005.2 |
| TDI Diesel ICE | 62.1 | 109.0 | 91.4 | 97.4 | 119.6 | 114.2 | 108.2 | 109.5 | 120.1 | 122.4 | 122.6 | 118.1 | 116.0 |
| Total Conventional | 1180.4 | 1106.0 | 1074.0 | 1106.3 | 1112.2 | 1079.0 | 1104.6 | 1094.2 | 1041.4 | 1057.8 | 1104.4 | 1110.3 | 1121.2 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 37.7 | 89.5 | 87.4 | 91.0 | 89.2 | 86.0 | 90.3 | 93.4 | 92.7 | 94.4 | 99.9 | 101.9 | 103.0 |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Electric Vehicle | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 2.5 | 3.6 | 5.4 | 6.2 | 8.0 | 7.6 | 8.6 | 6.2 |
| Electric-Diesel Hybrid | 0.2 | 0.2 | 0.3 | 0.3 | 0.5 | 0.5 | 0.5 | 1.3 | 4.0 | 4.3 | 4.6 | 5.0 | 5.2 |
| Electric-Gasoline Hybrid | 3.6 | 6.8 | 9.8 | 16.4 | 26.2 | 26.3 | 34.1 | 80.7 | 136.6 | 138.7 | 143.1 | 152.1 | 153.8 |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compressed Natural Gas Bi-fuel | 4.3 | 4.8 | 4.7 | 4.9 | 5.0 | 4.8 | 5.0 | 5.1 | 5.2 | 5.3 | 5.5 | 5.6 | 5.6 |
| Liquefied Petroleum Gas ICE | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.6 | 0.7 | 0.8 | 1.0 |
| Liquefied Petroleum Gas Bi-fuel | 14.1 | 16.1 | 15.6 | 16.2 | 16.4 | 15.9 | 16.5 | 17.0 | 17.1 | 17.4 | 18.2 | 18.4 | 18.6 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 |
| Total Alternatives | 60.8 | 118.3 | 118.6 | 129.8 | 138.2 | 136.5 | 150.4 | 203.6 | 262.3 | 268.8 | 279.8 | 292.6 | 293.6 |
| Percent Alternative Light Truck Sales | 4.90 | 9.66 | 9.95 | 10.50 | 11.05 | 11.23 | 11.98 | 15.69 | 20.12 | 20.26 | 20.21 | 20.86 | 20.75 |

**Table 44. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Pacific**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 1241.2 | 1224.3 | 1192.6 | 1236.1 | 1250.4 | 1215.4 | 1254.9 | 1297.8 | 1303.6 | 1326.6 | 1384.2 | 1402.9 | 1414.8 |
| | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 4.12 | 8.36 | 8.65 | 9.22 | 10.05 | 10.15 | 10.87 | 17.15 | 23.90 | 24.07 | 24.10 | 25.05 | 25.07 |
| EPACT Legislative Alternative Sales | 35.52 | 42.09 | 40.70 | 41.71 | 41.75 | 40.19 | 41.12 | 42.17 | 42.02 | 42.43 | 43.95 | 44.49 | 44.82 |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 176.82 | 336.61 | 505.11 | 661.06 | 674.38 | 699.51 | 728.36 | 733.06 |
| | | | | | | | | | | | | | |
| Total Vehicles Sales | 2673.3 | 2631.8 | 2557.9 | 2623.0 | 2629.7 | 2536.8 | 2602.4 | 2676.9 | 2676.5 | 2713.2 | 2821.5 | 2851.7 | 2868.9 |

**Table 44. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Pacific**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1038.6 | 1048.5 | 1067.6 | 1077.8 | 1036.0 | 1027.0 | 1039.8 | 989.2 | 973.8 | 983.5 | 987.6 | 1004.2 | 1004.9 | -1.1% |
| TDI Diesel ICE | 3.5 | 3.8 | 3.6 | 3.7 | 4.1 | 4.3 | 4.5 | 4.5 | 4.3 | 4.4 | 4.7 | 5.1 | 5.4 | 2.4% |
| Total Conventional | 1042.1 | 1052.3 | 1071.2 | 1081.4 | 1040.1 | 1031.3 | 1044.3 | 993.8 | 978.1 | 987.9 | 992.3 | 1009.3 | 1010.4 | -1.1% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.4% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.9% |
| Ethanol-Flex Fuel ICE | 78.0 | 80.5 | 82.6 | 83.2 | 82.9 | 82.2 | 83.1 | 82.5 | 81.3 | 81.8 | 81.7 | 83.3 | 82.6 | 0.3% |
| Ethanol ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 1.3% |
| Electric Vehicle | 9.2 | 14.4 | 16.6 | 16.8 | 25.1 | 25.8 | 24.7 | 34.4 | 34.7 | 33.1 | 32.6 | 32.3 | 31.0 | 19.9% |
| Electric-Diesel Hybrid | 18.1 | 22.0 | 21.7 | 21.7 | 28.1 | 29.4 | 30.1 | 35.4 | 33.3 | 33.1 | 33.2 | 35.8 | 35.5 | 21.1% |
| Electric-Gasoline Hybrid | 315.3 | 334.8 | 344.4 | 343.9 | 370.0 | 369.0 | 369.8 | 400.0 | 401.4 | 401.6 | 397.6 | 402.3 | 395.8 | 15.2% |
| Compressed Natural Gas ICE | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1% |
| Compressed Natural Gas Bi-fuel | 1.9 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | -0.3% |
| Liquefied Petroleum Gas ICE | 0.9 | 1.1 | 1.3 | 1.5 | 1.6 | 1.8 | 1.9 | 2.0 | 2.1 | 2.2 | 2.2 | 2.2 | 2.3 | 11.4% |
| Liquefied Petroleum Gas Bi-fuel | 6.4 | 6.6 | 6.7 | 6.8 | 6.8 | 6.7 | 6.8 | 6.8 | 6.7 | 6.7 | 6.7 | 6.8 | 6.8 | -0.4% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.4 | 0.3 | 0.4 | 0.5 | 0.4 | 0.5 | 0.8 | 0.6 | 0.8 | 1.2 | 1.3 | 1.8 | 2.2 | N/A |
| Total Alternatives | 430.3 | 461.8 | 475.7 | 476.4 | 516.9 | 517.6 | 519.3 | 563.9 | 562.4 | 561.9 | 557.4 | 566.7 | 558.4 | 7.3% |
| Percent Alternative Car Sales | 29.22 | 30.50 | 30.75 | 30.58 | 33.20 | 33.42 | 33.21 | 36.20 | 36.51 | 36.26 | 35.97 | 35.96 | 35.60 | 6.9% |
| Total New Car Sales | 1472.4 | 1514.0 | 1546.9 | 1557.8 | 1557.0 | 1548.9 | 1563.5 | 1557.6 | 1540.5 | 1549.8 | 1549.7 | 1576.0 | 1568.8 | 0.5% |
| New Light Truck Sales 2/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 1026.3 | 1046.7 | 1081.8 | 1093.5 | 1066.0 | 1055.4 | 1065.9 | 1046.6 | 1040.7 | 1047.5 | 1044.8 | 1057.6 | 1050.0 | 0.2% |
| TDI Diesel ICE | 116.4 | 125.2 | 115.9 | 117.0 | 130.9 | 138.2 | 141.8 | 139.3 | 129.2 | 129.2 | 133.6 | 140.9 | 144.0 | 1.2% |
| Total Conventional | 1142.6 | 1171.9 | 1197.7 | 1210.5 | 1196.9 | 1193.6 | 1207.7 | 1185.8 | 1169.9 | 1176.8 | 1178.4 | 1198.4 | 1194.0 | 0.3% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.5% |
| Ethanol-Flex Fuel ICE | 105.1 | 108.8 | 113.1 | 114.3 | 113.3 | 111.9 | 113.1 | 112.7 | 111.8 | 112.7 | 112.2 | 114.2 | 113.1 | 1.0% |
| Ethanol ICE | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 5.1% |
| Electric Vehicle | 3.8 | 2.6 | 1.6 | 1.2 | 1.0 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 1.4% |
| Electric-Diesel Hybrid | 5.5 | 7.0 | 6.9 | 7.0 | 9.5 | 9.9 | 10.2 | 12.0 | 11.1 | 11.1 | 11.3 | 12.2 | 12.4 | 18.4% |
| Electric-Gasoline Hybrid | 155.1 | 166.6 | 173.2 | 173.6 | 188.2 | 187.0 | 187.5 | 204.1 | 204.8 | 205.7 | 203.9 | 206.1 | 203.7 | 15.2% |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -5.7% |
| Compressed Natural Gas Bi-fuel | 5.7 | 5.9 | 6.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.2 | 6.2 | 1.0% |
| Liquefied Petroleum Gas ICE | 1.2 | 1.4 | 1.7 | 1.9 | 2.0 | 2.3 | 2.5 | 2.6 | 2.8 | 2.9 | 3.0 | 3.0 | 3.2 | 12.0% |
| Liquefied Petroleum Gas Bi-fuel | 18.9 | 19.5 | 19.9 | 20.1 | 20.2 | 20.1 | 20.3 | 20.3 | 20.1 | 20.2 | 20.2 | 20.5 | 20.4 | 1.0% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.5 | 0.5 | 0.7 | 1.0 | 1.3 | 1.7 | 2.3 | N/A |
| Total Alternatives | 295.6 | 312.1 | 322.9 | 324.6 | 340.6 | 338.6 | 341.4 | 359.4 | 358.3 | 360.7 | 358.9 | 365.0 | 362.3 | 4.8% |
| Percent Alternative Light Truck Sales | 20.55 | 21.03 | 21.23 | 21.15 | 22.15 | 22.10 | 22.04 | 23.26 | 23.45 | 23.46 | 23.35 | 23.35 | 23.28 | 3.7% |

**Table 44. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Pacific**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 1438.2 | 1484.0 | 1520.6 | 1535.1 | 1537.5 | 1532.2 | 1549.1 | 1545.2 | 1528.2 | 1537.5 | 1537.3 | 1563.5 | 1556.3 | 1.0% |
| Percent Total Alternative Sales | 24.94 | 25.81 | 26.03 | 25.90 | 27.71 | 27.79 | 27.65 | 29.75 | 30.00 | 29.88 | 29.68 | 29.68 | 29.46 | 5.4% |
| EPACT Legislative Alternative Sales | 45.52 | 46.93 | 48.06 | 48.49 | 48.55 | 48.36 | 48.88 | 48.74 | 48.21 | 48.50 | 48.49 | 49.32 | 49.09 | 0.6% |
| ZEVP Legislative Alternative Sales | 739.75 | 784.28 | 805.04 | 807.56 | 855.67 | 854.53 | 859.07 | 906.06 | 898.57 | 899.85 | 895.64 | 911.21 | 902.89 | N/A |
| Total Vehicles Sales | 2910.6 | 2998.0 | 3067.5 | 3092.9 | 3094.5 | 3081.2 | 3112.6 | 3102.8 | 3068.7 | 3087.3 | 3087.0 | 3139.5 | 3125.1 | 0.7% |

**Table 44. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**Pacific**

1/ Includes personal and fleet light-duty cars.
2/ Includes personal and fleet light-duty trucks.
ICE = Internal combustion engine.
EPACT = Energy Policy Act of 1992.
ZEVP = Zero emission vehicles from the low emission vehicle program.
N/A = Not applicable.
Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 45. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**United States**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 8674.0 | 8191.4 | 7917.5 | 7986.7 | 7843.7 | 7499.4 | 7577.4 | 7571.6 | 7248.5 | 7362.0 | 7595.8 | 7521.6 | 7602.1 |
| TDI Diesel ICE | 17.9 | 17.2 | 16.4 | 17.2 | 17.2 | 16.8 | 17.1 | 16.4 | 16.9 | 17.3 | 18.0 | 17.6 | 18.0 |
| Total Conventional | 8691.9 | 8208.6 | 7933.9 | 8003.9 | 7860.9 | 7516.3 | 7594.5 | 7588.0 | 7265.5 | 7379.3 | 7613.8 | 7539.2 | 7620.1 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 210.0 | 489.4 | 468.2 | 470.7 | 462.2 | 436.2 | 443.5 | 453.6 | 448.5 | 452.2 | 472.2 | 474.9 | 474.7 |
| Ethanol ICE | 0.6 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.8 | 0.8 | 0.8 |
| Electric Vehicle | 2.2 | 2.5 | 2.4 | 2.4 | 2.3 | 2.5 | 2.9 | 3.0 | 3.2 | 3.6 | 4.5 | 7.5 | 12.2 |
| Electric-Diesel Hybrid | 2.4 | 2.0 | 2.6 | 3.3 | 4.5 | 4.6 | 5.6 | 12.5 | 32.8 | 31.8 | 35.0 | 42.1 | 39.6 |
| Electric-Gasoline Hybrid | 36.7 | 81.1 | 110.3 | 164.7 | 255.9 | 251.7 | 311.6 | 479.6 | 730.3 | 678.2 | 712.5 | 823.2 | 752.3 |
| Compressed Natural Gas ICE | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 |
| Compressed Natural Gas Bi-fuel | 12.3 | 13.3 | 12.8 | 12.7 | 12.4 | 11.6 | 11.5 | 11.5 | 11.2 | 11.0 | 11.1 | 11.1 | 11.1 |
| Liquefied Petroleum Gas ICE | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.8 | 0.9 | 1.1 | 1.2 | 1.3 |
| Liquefied Petroleum Gas Bi-fuel | 42.7 | 47.5 | 45.0 | 44.7 | 43.4 | 40.6 | 40.3 | 40.2 | 39.0 | 38.3 | 38.6 | 38.8 | 38.8 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.3 | 0.4 | 0.7 | 1.1 | 1.4 |
| Total Alternatives | 307.9 | 637.2 | 642.7 | 699.8 | 782.1 | 748.7 | 817.2 | 1002.2 | 1267.1 | 1217.4 | 1276.7 | 1401.0 | 1332.5 |
| Percent Alternative Car Sales | 3.42 | 7.20 | 7.49 | 8.04 | 9.05 | 9.06 | 9.71 | 11.67 | 14.85 | 14.16 | 14.36 | 15.67 | 14.88 |
| Total New Car Sales | 8999.7 | 8845.8 | 8576.6 | 8703.7 | 8643.1 | 8265.0 | 8411.6 | 8590.2 | 8532.6 | 8596.7 | 8890.5 | 8940.2 | 8952.6 |
| New Light Truck Sales 2/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 7060.3 | 6358.0 | 6187.8 | 6346.2 | 6348.6 | 6148.0 | 6298.6 | 6466.1 | 6345.5 | 6461.3 | 6727.6 | 6782.4 | 6843.0 |
| TDI Diesel ICE | 358.3 | 587.0 | 559.0 | 597.3 | 614.9 | 606.0 | 609.7 | 575.1 | 595.4 | 599.8 | 611.8 | 591.0 | 599.8 |
| Total Conventional | 7418.6 | 6945.0 | 6746.8 | 6943.5 | 6963.5 | 6754.0 | 6908.3 | 7041.1 | 6940.8 | 7061.1 | 7339.4 | 7373.3 | 7442.8 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 238.1 | 570.5 | 550.3 | 572.5 | 569.6 | 546.4 | 569.2 | 591.1 | 588.7 | 598.9 | 630.9 | 640.9 | 644.7 |
| Ethanol ICE | 0.7 | 0.7 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.9 | 1.0 | 1.0 | 1.1 |
| Electric Vehicle | 2.7 | 3.3 | 3.2 | 3.3 | 3.3 | 6.6 | 8.5 | 11.6 | 13.0 | 16.2 | 15.6 | 17.6 | 13.9 |
| Electric-Diesel Hybrid | 1.4 | 1.2 | 1.6 | 2.0 | 2.8 | 2.9 | 2.8 | 4.5 | 10.7 | 10.9 | 12.0 | 13.8 | 13.9 |
| Electric-Gasoline Hybrid | 21.9 | 41.8 | 60.4 | 101.5 | 160.8 | 160.9 | 208.9 | 295.8 | 408.4 | 395.4 | 415.0 | 460.8 | 442.7 |
| Compressed Natural Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Compressed Natural Gas Bi-fuel | 26.9 | 30.4 | 29.7 | 30.7 | 31.1 | 30.1 | 31.0 | 32.0 | 32.1 | 32.6 | 33.9 | 34.3 | 34.5 |
| Liquefied Petroleum Gas ICE | 0.9 | 0.7 | 0.8 | 0.9 | 0.9 | 0.9 | 1.0 | 1.1 | 1.2 | 1.4 | 1.6 | 1.7 | 1.9 |
| Liquefied Petroleum Gas Bi-fuel | 88.7 | 100.9 | 98.3 | 101.8 | 102.8 | 99.7 | 102.8 | 106.1 | 106.3 | 107.9 | 112.3 | 113.6 | 114.3 |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 |
| Total Alternatives | 381.6 | 749.6 | 745.0 | 813.5 | 872.0 | 848.4 | 925.1 | 1043.1 | 1161.3 | 1164.3 | 1222.5 | 1284.0 | 1267.4 |
| Percent Alternative Light Truck Sales | 4.89 | 9.74 | 9.94 | 10.49 | 11.13 | 11.16 | 11.81 | 12.90 | 14.33 | 14.15 | 14.28 | 14.83 | 14.55 |

**Table 45. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**United States**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 7800.3 | 7694.6 | 7491.8 | 7757.0 | 7835.6 | 7602.4 | 7833.4 | 8084.2 | 8102.2 | 8225.4 | 8561.9 | 8657.3 | 8710.1 |
| | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 4.10 | 8.38 | 8.64 | 9.19 | 10.04 | 10.07 | 10.72 | 12.27 | 14.60 | 14.16 | 14.32 | 15.26 | 14.72 |
| EPACT Legislative Alternative Sales | 223.24 | 264.52 | 255.70 | 261.72 | 261.61 | 251.37 | 256.69 | 262.67 | 261.15 | 263.10 | 271.86 | 274.55 | 275.94 |
| ZEVP Legislative Alternative Sales | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 297.19 | 565.68 | 848.74 | 1110.67 | 1132.94 | 1175.06 | 1223.44 | 1231.27 |
| | | | | | | | | | | | | | |
| Total Vehicles Sales | 16800.0 | 16540.4 | 16068.4 | 16460.7 | 16478.7 | 15867.4 | 16245.1 | 16674.4 | 16634.7 | 16822.1 | 17452.4 | 17597.5 | 17662.8 |

**Table 45. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**United States**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Car Sales 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 7668.1 | 7738.6 | 7871.2 | 7999.3 | 7814.0 | 7748.7 | 7806.7 | 7679.0 | 7570.5 | 7603.7 | 7591.6 | 7699.8 | 7653.7 | -0.3% |
| TDI Diesel ICE | 18.6 | 19.7 | 20.0 | 20.6 | 21.6 | 21.8 | 22.6 | 23.0 | 22.5 | 23.1 | 24.1 | 25.7 | 27.8 | 2.0% |
| Total Conventional | 7686.7 | 7758.3 | 7891.2 | 8019.9 | 7835.6 | 7770.5 | 7829.3 | 7702.0 | 7593.0 | 7626.8 | 7615.6 | 7725.5 | 7681.5 | -0.3% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.6% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -1.6% |
| Ethanol-Flex Fuel ICE | 480.1 | 495.0 | 506.5 | 509.1 | 506.4 | 501.2 | 505.5 | 501.0 | 492.2 | 494.3 | 492.4 | 501.5 | 496.2 | 0.1% |
| Ethanol ICE | 0.9 | 1.0 | 1.0 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.4 | 3.9% |
| Electric Vehicle | 14.9 | 23.9 | 28.4 | 29.1 | 43.2 | 44.5 | 42.5 | 59.0 | 59.5 | 56.8 | 55.8 | 55.2 | 52.9 | 13.5% |
| Electric-Diesel Hybrid | 41.8 | 54.7 | 56.2 | 51.4 | 68.7 | 70.3 | 71.9 | 82.9 | 78.6 | 78.1 | 77.9 | 83.7 | 84.1 | 16.8% |
| Electric-Gasoline Hybrid | 765.4 | 890.2 | 918.8 | 836.2 | 966.0 | 963.5 | 967.9 | 1016.2 | 1014.3 | 1016.9 | 1010.2 | 1022.9 | 1010.5 | 11.1% |
| Compressed Natural Gas ICE | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.0% |
| Compressed Natural Gas Bi-fuel | 11.2 | 11.5 | 11.7 | 11.8 | 11.8 | 11.7 | 11.8 | 11.7 | 11.6 | 11.6 | 11.6 | 11.8 | 11.7 | -0.5% |
| Liquefied Petroleum Gas ICE | 1.5 | 1.6 | 1.8 | 1.9 | 2.0 | 2.2 | 2.3 | 2.4 | 2.4 | 2.5 | 2.5 | 2.6 | 2.6 | 6.4% |
| Liquefied Petroleum Gas Bi-fuel | 39.2 | 40.2 | 41.0 | 41.2 | 41.1 | 40.8 | 41.1 | 40.9 | 40.3 | 40.5 | 40.4 | 41.0 | 40.7 | -0.6% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 1.8 | 1.5 | 1.1 | 1.3 | 0.9 | 1.1 | 1.5 | 1.3 | 1.5 | 2.2 | 2.5 | 3.3 | 4.1 | N/A |
| Total Alternatives | 1357.0 | 1519.8 | 1566.8 | 1483.3 | 1641.5 | 1636.7 | 1646.0 | 1716.9 | 1702.1 | 1704.5 | 1695.0 | 1723.6 | 1704.5 | 4.2% |
| Percent Alternative Car Sales | 15.00 | 16.38 | 16.57 | 15.61 | 17.32 | 17.40 | 17.37 | 18.23 | 18.31 | 18.27 | 18.20 | 18.24 | 18.16 | 3.9% |
| Total New Car Sales | 9043.7 | 9278.1 | 9458.0 | 9503.2 | 9477.1 | 9407.2 | 9475.3 | 9418.9 | 9295.1 | 9331.3 | 9310.6 | 9449.1 | 9386.0 | 0.2% |
| New Light Truck Sales 2/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 6936.5 | 7079.0 | 7238.1 | 7317.5 | 7224.4 | 7182.9 | 7237.8 | 7167.7 | 7089.9 | 7117.4 | 7092.5 | 7182.4 | 7102.8 | 0.5% |
| TDI Diesel ICE | 609.7 | 638.9 | 639.8 | 649.7 | 677.0 | 674.6 | 688.8 | 690.7 | 661.6 | 661.5 | 670.5 | 693.3 | 723.3 | 0.9% |
| Total Conventional | 7546.3 | 7718.0 | 7877.9 | 7967.2 | 7901.4 | 7857.6 | 7926.6 | 7858.4 | 7751.5 | 7778.9 | 7763.0 | 7875.7 | 7826.1 | 0.5% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1% |
| Ethanol-Flex Fuel ICE | 655.4 | 678.7 | 698.7 | 704.4 | 700.9 | 694.9 | 701.3 | 696.0 | 685.7 | 689.6 | 686.8 | 698.7 | 689.4 | 0.8% |
| Ethanol ICE | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.7 | 1.8 | 1.9 | 1.9 | 2.0 | 2.1 | 2.2 | 2.3 | 5.3% |
| Electric Vehicle | 9.7 | 7.8 | 5.9 | 5.0 | 4.6 | 4.3 | 4.3 | 4.2 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 0.9% |
| Electric-Diesel Hybrid | 14.9 | 19.6 | 20.4 | 19.5 | 25.9 | 26.4 | 27.1 | 31.3 | 29.2 | 29.2 | 29.4 | 31.7 | 32.6 | 14.7% |
| Electric-Gasoline Hybrid | 452.9 | 510.4 | 530.9 | 503.5 | 560.8 | 558.4 | 561.8 | 588.2 | 586.2 | 589.4 | 587.2 | 594.3 | 589.5 | 11.7% |
| Compressed Natural Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | -1.3% |
| Compressed Natural Gas Bi-fuel | 35.0 | 36.0 | 36.8 | 37.1 | 37.0 | 36.8 | 37.2 | 37.0 | 36.5 | 36.6 | 36.6 | 37.1 | 36.9 | 0.8% |
| Liquefied Petroleum Gas ICE | 2.1 | 2.3 | 2.5 | 2.7 | 2.8 | 3.1 | 3.2 | 3.3 | 3.4 | 3.6 | 3.6 | 3.7 | 3.9 | 7.1% |
| Liquefied Petroleum Gas Bi-fuel | 115.9 | 119.3 | 122.0 | 122.9 | 122.8 | 122.1 | 123.2 | 122.6 | 121.0 | 121.5 | 121.2 | 123.0 | 122.2 | 0.8% |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.6 | 0.5 | 0.5 | 0.6 | 0.5 | 0.7 | 1.0 | 1.0 | 1.3 | 1.9 | 2.3 | 3.2 | 4.1 | N/A |
| Total Alternatives | 1287.7 | 1375.9 | 1419.1 | 1397.3 | 1457.0 | 1448.4 | 1460.9 | 1485.4 | 1469.4 | 1478.0 | 1473.4 | 1498.0 | 1485.1 | 2.9% |
| Percent Alternative Light Truck Sales | 14.58 | 15.13 | 15.26 | 14.92 | 15.57 | 15.56 | 15.56 | 15.90 | 15.94 | 15.97 | 15.95 | 15.98 | 15.95 | 2.1% |

**Table 45. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**United States**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total New Truck Sales | 8834.0 | 9093.8 | 9297.0 | 9364.5 | 9358.4 | 9306.0 | 9387.6 | 9343.8 | 9221.0 | 9256.8 | 9236.3 | 9373.7 | 9311.2 | 0.8% |
| | | | | | | | | | | | | | | |
| Percent Total Alternative Sales | 14.79 | 15.76 | 15.92 | 15.27 | 16.45 | 16.49 | 16.47 | 17.07 | 17.13 | 17.12 | 17.08 | 17.12 | 17.06 | 3.0% |
| EPACT Legislative Alternative Sales | 279.61 | 287.62 | 293.86 | 295.83 | 295.50 | 293.73 | 296.21 | 294.75 | 290.87 | 292.00 | 291.36 | 295.69 | 293.72 | 0.4% |
| ZEVP Legislative Alternative Sales | 1242.44 | 1317.18 | 1352.01 | 1356.20 | 1436.95 | 1435.01 | 1442.61 | 1521.49 | 1508.92 | 1511.06 | 1503.99 | 1530.14 | 1516.18 | N/A |
| | | | | | | | | | | | | | | |
| Total Vehicles Sales | 17877.7 | 18372.0 | 18755.1 | 18867.7 | 18835.5 | 18713.2 | 18862.8 | 18762.7 | 18516.1 | 18588.1 | 18546.9 | 18822.8 | 18697.2 | 0.5% |

**Table 45. Light-Duty Vehicle Sales by Technology Type**
**(Thousands)**
**United States**

1/ Includes personal and fleet light-duty cars.
2/ Includes personal and fleet light-duty trucks.
ICE = Internal combustion engine.
EPACT = Energy Policy Act of 1992.
ZEVP = Zero emission vehicles from the low emission vehicle program.
N/A = Not applicable.
Sources: 2001 derived using: California Air Resources Board (CARB), "Proposed Regulations for Low-Emission Vehicles and Clean Fuels, Staff Report"; CARB, "Proposed Amendments to California Exhaust and Evaporative Emission Standards and Test Procedures for Passenger, Light-Duty Trucks and Medium-Duty Vehicles - LEVII and Proposed Amendments to California Motor Vehicle Certification: Assembly-Line and In-Use Test Requirements - CAP 2000," (El Monte, CA, September 1998); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 46. Light-Duty Vehicle Stock by Technology Type**
**(Millions)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Light-Duty Car Stock 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 126.28 | 127.34 | 127.89 | 128.26 | 128.31 | 127.86 | 127.44 | 126.95 | 126.12 | 125.41 | 124.94 | 124.43 | 124.04 |
| TDI Diesel ICE | 0.58 | 0.53 | 0.48 | 0.44 | 0.41 | 0.38 | 0.36 | 0.34 | 0.32 | 0.31 | 0.31 | 0.30 | 0.30 |
| Total Conventional | 126.87 | 127.87 | 128.37 | 128.70 | 128.72 | 128.24 | 127.79 | 127.29 | 126.45 | 125.72 | 125.25 | 124.74 | 124.34 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Methanol ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethanol-Flex Fuel ICE | 0.77 | 1.25 | 1.71 | 2.16 | 2.60 | 3.00 | 3.40 | 3.79 | 4.16 | 4.51 | 4.85 | 5.18 | 5.48 |
| Ethanol ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Natural Gas Technology | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas Bi-fuel | 0.02 | 0.03 | 0.04 | 0.05 | 0.07 | 0.08 | 0.09 | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | 0.13 |
| Liquefied Petroleum Gas ICE | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Liquefied Petroleum Gas Bi-fuel | 0.01 | 0.06 | 0.10 | 0.15 | 0.19 | 0.22 | 0.26 | 0.29 | 0.32 | 0.35 | 0.38 | 0.41 | 0.43 |
| Electric Technology | | | | | | | | | | | | | |
| Electric Vehicle | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.05 |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.04 | 0.07 | 0.10 | 0.14 | 0.18 | 0.22 |
| Electric-Gasoline Hybrid | 0.04 | 0.12 | 0.23 | 0.39 | 0.65 | 0.90 | 1.21 | 1.69 | 2.41 | 3.07 | 3.76 | 4.55 | 5.25 |
| Fuel Cell Technology | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Alternatives | 0.85 | 1.49 | 2.12 | 2.80 | 3.55 | 4.26 | 5.02 | 5.95 | 7.11 | 8.20 | 9.30 | 10.50 | 11.58 |
| Total Car Stock | 127.72 | 129.36 | 130.48 | 131.50 | 132.27 | 132.49 | 132.81 | 133.23 | 133.56 | 133.92 | 134.55 | 135.24 | 135.93 |
| Light-Duty Truck Stock 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 61.31 | 65.05 | 68.46 | 71.87 | 75.13 | 78.05 | 80.95 | 83.85 | 86.46 | 89.01 | 91.65 | 94.18 | 96.59 |
| TDI Diesel ICE | 1.33 | 1.85 | 2.33 | 2.86 | 3.40 | 3.93 | 4.46 | 4.93 | 5.41 | 5.87 | 6.32 | 6.73 | 7.12 |
| Total Conventional | 62.64 | 66.89 | 70.79 | 74.73 | 78.53 | 81.98 | 85.41 | 88.78 | 91.86 | 94.87 | 97.97 | 100.91 | 103.71 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Methanol ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethanol-Flex Fuel ICE | 0.85 | 1.42 | 1.96 | 2.51 | 3.06 | 3.57 | 4.09 | 4.61 | 5.11 | 5.59 | 6.09 | 6.56 | 7.02 |
| Ethanol ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Natural Gas Technology | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas Bi-fuel | 0.06 | 0.09 | 0.11 | 0.14 | 0.17 | 0.20 | 0.23 | 0.25 | 0.28 | 0.31 | 0.33 | 0.36 | 0.38 |
| Liquefied Petroleum Gas ICE | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |
| Liquefied Petroleum Gas Bi-fuel | 0.09 | 0.19 | 0.28 | 0.38 | 0.48 | 0.57 | 0.67 | 0.76 | 0.86 | 0.95 | 1.04 | 1.12 | 1.21 |
| Electric Technology | | | | | | | | | | | | | |
| Electric Vehicle | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.07 | 0.08 | 0.10 | 0.11 |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 |
| Electric-Gasoline Hybrid | 0.02 | 0.06 | 0.12 | 0.23 | 0.39 | 0.55 | 0.75 | 1.05 | 1.45 | 1.83 | 2.23 | 2.66 | 3.07 |
| Fuel Cell Technology | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 46. Light-Duty Vehicle Stock by Technology Type**
**(Millions)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Alternatives | 1.03 | 1.77 | 2.50 | 3.29 | 4.13 | 4.94 | 5.80 | 6.75 | 7.80 | 8.81 | 9.85 | 10.90 | 11.90 |
| Total Truck Stock | 63.68 | 68.66 | 73.30 | 78.03 | 82.67 | 86.92 | 91.21 | 95.53 | 99.66 | 103.69 | 107.82 | 111.81 | 115.61 |
| Total Vehicle Stock | 191.40 | 198.02 | 203.78 | 209.53 | 214.94 | 219.41 | 224.02 | 228.77 | 233.22 | 237.60 | 242.37 | 247.05 | 251.53 |

**Table 46. Light-Duty Vehicle Stock by Technology Type**
**(Millions)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Light-Duty Car Stock 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 123.75 | 123.56 | 123.55 | 123.71 | 123.71 | 123.68 | 123.72 | 123.67 | 123.51 | 123.40 | 123.28 | 123.27 | 123.23 | -0.1% |
| TDI Diesel ICE | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.31 | 0.31 | 0.32 | 0.32 | 0.33 | 0.33 | 0.34 | 0.35 | -1.7% |
| Total Conventional | 124.04 | 123.86 | 123.85 | 124.01 | 124.01 | 123.98 | 124.04 | 123.98 | 123.83 | 123.72 | 123.61 | 123.61 | 123.57 | -0.1% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -10.5% |
| Methanol ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.2% |
| Ethanol-Flex Fuel ICE | 5.76 | 6.03 | 6.28 | 6.52 | 6.73 | 6.91 | 7.08 | 7.22 | 7.33 | 7.43 | 7.52 | 7.60 | 7.67 | 7.8% |
| Ethanol ICE | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 9.5% |
| Natural Gas Technology | | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.2% |
| Compressed Natural Gas Bi-fuel | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 7.6% |
| Liquefied Petroleum Gas ICE | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 6.0% |
| Liquefied Petroleum Gas Bi-fuel | 0.45 | 0.47 | 0.49 | 0.51 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.57 | 0.58 | 0.59 | 0.59 | 10.1% |
| Electric Technology | | | | | | | | | | | | | | |
| Electric Vehicle | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.22 | 0.26 | 0.32 | 0.37 | 0.42 | 0.47 | 0.51 | 0.55 | 20.4% |
| Electric-Diesel Hybrid | 0.26 | 0.31 | 0.36 | 0.41 | 0.47 | 0.53 | 0.59 | 0.66 | 0.72 | 0.77 | 0.83 | 0.89 | 0.94 | 24.9% |
| Electric-Gasoline Hybrid | 5.94 | 6.73 | 7.52 | 8.19 | 8.94 | 9.66 | 10.33 | 11.00 | 11.63 | 12.21 | 12.74 | 13.23 | 13.66 | 21.9% |
| Fuel Cell Technology | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Hydrogen | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | N/A |
| Total Alternatives | 12.64 | 13.81 | 14.96 | 15.96 | 17.05 | 18.06 | 19.02 | 19.97 | 20.84 | 21.65 | 22.37 | 23.06 | 23.66 | 12.2% |
| Total Car Stock | 136.69 | 137.66 | 138.80 | 139.96 | 141.06 | 142.05 | 143.05 | 143.96 | 144.68 | 145.37 | 145.98 | 146.67 | 147.24 | 0.5% |
| Light-Duty Truck Stock 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 98.92 | 101.22 | 103.52 | 105.74 | 107.71 | 109.49 | 111.18 | 112.66 | 113.93 | 115.10 | 116.13 | 117.15 | 117.99 | 2.5% |
| TDI Diesel ICE | 7.49 | 7.87 | 8.22 | 8.56 | 8.89 | 9.20 | 9.49 | 9.76 | 9.98 | 10.18 | 10.36 | 10.55 | 10.75 | 7.6% |
| Total Conventional | 106.41 | 109.10 | 111.75 | 114.30 | 116.61 | 118.69 | 120.67 | 122.42 | 123.91 | 125.28 | 126.49 | 127.70 | 128.74 | 2.8% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -7.2% |
| Methanol ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.8% |
| Ethanol-Flex Fuel ICE | 7.45 | 7.88 | 8.30 | 8.70 | 9.06 | 9.39 | 9.70 | 9.98 | 10.21 | 10.43 | 10.62 | 10.81 | 10.97 | 8.9% |
| Ethanol ICE | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 9.7% |
| Natural Gas Technology | | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.8% |
| Compressed Natural Gas Bi-fuel | 0.40 | 0.43 | 0.45 | 0.47 | 0.49 | 0.50 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 8.3% |
| Liquefied Petroleum Gas ICE | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 6.6% |
| Liquefied Petroleum Gas Bi-fuel | 1.29 | 1.36 | 1.44 | 1.51 | 1.57 | 1.63 | 1.69 | 1.74 | 1.78 | 1.82 | 1.85 | 1.89 | 1.91 | 10.2% |
| Electric Technology | | | | | | | | | | | | | | |
| Electric Vehicle | 0.12 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 13.2% |
| Electric-Diesel Hybrid | 0.09 | 0.11 | 0.13 | 0.15 | 0.17 | 0.19 | 0.21 | 0.24 | 0.26 | 0.29 | 0.31 | 0.33 | 0.35 | 22.7% |
| Electric-Gasoline Hybrid | 3.48 | 3.92 | 4.37 | 4.78 | 5.22 | 5.63 | 6.03 | 6.43 | 6.81 | 7.16 | 7.48 | 7.79 | 8.07 | 22.3% |
| Fuel Cell Technology | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |

**Table 46. Light-Duty Vehicle Stock by Technology Type**
**(Millions)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | N/A |
| Total Alternatives | 12.87 | 13.87 | 14.86 | 15.77 | 16.69 | 17.53 | 18.33 | 19.10 | 19.79 | 20.44 | 21.02 | 21.58 | 22.08 | 11.1% |
| Total Truck Stock | 119.28 | 122.96 | 126.61 | 130.07 | 133.29 | 136.22 | 139.01 | 141.53 | 143.70 | 145.71 | 147.52 | 149.28 | 150.81 | 3.3% |
| Total Vehicle Stock | 255.97 | 260.63 | 265.41 | 270.04 | 274.35 | 278.27 | 282.06 | 285.48 | 288.38 | 291.08 | 293.50 | 295.95 | 298.05 | 1.7% |

**Table 46. Light-Duty Vehicle Stock by Technology Type**
**(Millions)**

1/ Includes personal and fleet vehicles.
ICE = Internal combustion engine.
N/A = Not applicable.
Sources: 2001 derived using: Energy Information Administration (EIA), Household Vehicles Energy Consumption 1994, DOE/EIA-0464(94) (Washington, DC, August 1997); EIA, Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Oak Ridge National Laboratory, Transportation Energy Data Book: 21 (Oak Ridge, TN, September 2001); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type**
**(Miles per Gallon Gasoline Equivalent)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Automobiles 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 28.14 | 28.02 | 27.96 | 28.14 | 28.13 | 28.00 | 27.91 | 27.76 | 27.52 | 27.62 | 27.78 | 27.87 | 28.02 |
| TDI Diesel ICE | 37.95 | 37.73 | 37.54 | 37.82 | 37.71 | 37.49 | 37.22 | 36.84 | 36.46 | 36.50 | 36.54 | 36.51 | 36.57 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 26.99 | 26.92 | 26.84 | 26.86 | 26.88 | 27.89 | 27.79 | 27.62 | 27.37 | 27.47 | 27.63 | 27.71 | 27.87 |
| Methanol ICE | 28.78 | 28.64 | 28.54 | 28.67 | 28.67 | 28.50 | 28.34 | 28.14 | 27.87 | 27.94 | 28.10 | 28.19 | 28.33 |
| Ethanol-Flex Fuel ICE | 27.94 | 27.82 | 27.75 | 27.97 | 27.93 | 27.78 | 27.70 | 27.54 | 27.29 | 27.41 | 27.58 | 27.66 | 27.82 |
| Ethanol ICE | 27.71 | 27.59 | 27.53 | 27.65 | 27.67 | 27.54 | 27.44 | 27.27 | 27.03 | 27.14 | 27.32 | 27.42 | 27.58 |
| Natural Gas Technology | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 28.41 | 28.31 | 28.22 | 28.30 | 28.34 | 28.19 | 28.05 | 27.87 | 27.61 | 27.66 | 27.77 | 27.83 | 27.93 |
| Compressed Natural Gas Bi-fuel | 27.10 | 26.97 | 26.89 | 26.96 | 27.03 | 26.93 | 26.83 | 26.68 | 26.44 | 26.52 | 26.65 | 26.73 | 26.84 |
| Liquefied Petroleum Gas ICE | 27.85 | 27.70 | 27.63 | 27.75 | 27.74 | 27.61 | 27.49 | 27.34 | 27.13 | 27.27 | 27.46 | 27.58 | 27.76 |
| Liquefied Petroleum Gas Bi-fuel | 27.14 | 26.99 | 26.91 | 26.96 | 27.02 | 26.90 | 26.79 | 26.65 | 26.42 | 26.51 | 26.65 | 26.74 | 26.87 |
| Electric Technology | | | | | | | | | | | | | |
| Electric Vehicle | 32.35 | 34.10 | 34.44 | 35.19 | 38.73 | 42.11 | 46.40 | 52.39 | 51.33 | 50.99 | 50.54 | 49.99 | 49.68 |
| Electric-Diesel Hybrid | 43.36 | 43.44 | 43.29 | 43.43 | 43.32 | 42.98 | 42.13 | 41.38 | 40.88 | 40.86 | 40.82 | 40.75 | 40.74 |
| Electric-Gasoline Hybrid | 39.66 | 39.24 | 39.15 | 39.63 | 39.72 | 39.49 | 39.40 | 39.16 | 38.86 | 38.85 | 38.83 | 38.78 | 38.78 |
| Fuel Cell Technology | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 44.48 | 43.88 | 43.28 | 42.68 | 42.64 | 42.62 | 42.57 | 42.54 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 47.43 | 46.78 | 46.14 | 45.50 | 45.45 | 45.42 | 45.38 | 45.33 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 51.72 | 51.01 | 50.30 | 49.59 | 49.53 | 49.48 | 49.41 | 49.35 |
| Average New Car Miles per Gallon | 28.18 | 28.09 | 28.06 | 28.30 | 28.37 | 28.26 | 28.22 | 28.23 | 28.26 | 28.30 | 28.47 | 28.66 | 28.74 |
| Light-Duty Trucks 1/ | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 20.36 | 20.31 | 20.28 | 20.30 | 20.31 | 20.35 | 20.26 | 20.21 | 20.05 | 20.19 | 20.40 | 20.52 | 20.71 |
| TDI Diesel ICE | 26.61 | 26.66 | 26.52 | 26.55 | 26.53 | 26.54 | 26.17 | 25.98 | 25.73 | 25.77 | 25.89 | 25.94 | 26.03 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 19.34 | 19.30 | 20.55 | 20.58 | 20.58 | 20.63 | 20.53 | 20.50 | 20.35 | 20.50 | 20.74 | 20.88 | 21.08 |
| Methanol ICE | 23.00 | 22.90 | 22.88 | 22.93 | 22.85 | 22.87 | 22.73 | 22.67 | 22.48 | 22.61 | 22.84 | 22.96 | 23.15 |
| Ethanol-Flex Fuel ICE | 20.13 | 20.35 | 20.32 | 20.36 | 20.35 | 20.40 | 20.30 | 20.27 | 20.13 | 20.27 | 20.50 | 20.63 | 20.83 |
| Ethanol ICE | 22.22 | 22.14 | 22.14 | 22.22 | 22.20 | 22.24 | 22.11 | 22.07 | 21.90 | 22.05 | 22.28 | 22.44 | 22.61 |
| Natural Gas Technology | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 23.73 | 23.64 | 23.55 | 23.62 | 23.57 | 23.61 | 23.39 | 23.26 | 23.08 | 23.15 | 23.27 | 23.32 | 23.45 |
| Compressed Natural Gas Bi-fuel | 19.42 | 19.37 | 19.32 | 19.34 | 19.37 | 19.42 | 19.35 | 19.31 | 19.17 | 19.27 | 19.42 | 19.52 | 19.66 |
| Liquefied Petroleum Gas ICE | 20.53 | 20.42 | 20.35 | 20.45 | 20.32 | 20.34 | 20.15 | 20.13 | 20.00 | 20.16 | 20.36 | 20.49 | 20.67 |
| Liquefied Petroleum Gas Bi-fuel | 19.12 | 19.08 | 19.04 | 19.05 | 19.06 | 19.11 | 19.05 | 19.00 | 18.86 | 18.97 | 19.15 | 19.26 | 19.45 |
| Electric Technology | | | | | | | | | | | | | |
| Electric Vehicle | 23.69 | 24.97 | 25.20 | 25.74 | 28.31 | 30.53 | 33.40 | 37.57 | 36.97 | 36.82 | 36.82 | 36.71 | 36.79 |
| Electric-Diesel Hybrid | 33.57 | 32.80 | 32.37 | 32.15 | 31.92 | 31.88 | 31.37 | 31.68 | 31.83 | 31.82 | 31.83 | 31.82 | 31.85 |

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type**
**(Miles per Gallon Gasoline Equivalent)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric-Gasoline Hybrid | 30.57 | 30.63 | 30.45 | 30.53 | 30.43 | 30.39 | 29.87 | 29.63 | 29.09 | 29.08 | 29.10 | 29.08 | 29.10 |
| Fuel Cell Technology | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 38.51 | 37.59 | 37.09 | 36.57 | 36.52 | 36.49 | 36.44 | 36.40 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.10 | 40.12 | 39.58 | 39.02 | 38.97 | 38.94 | 38.89 | 38.84 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 45.01 | 43.93 | 43.34 | 42.72 | 42.66 | 42.62 | 42.55 | 42.50 |
| Average New Truck Miles per Gallon | 20.58 | 20.71 | 20.68 | 20.76 | 20.82 | 20.88 | 20.80 | 20.78 | 20.72 | 20.83 | 21.03 | 21.17 | 21.34 |
| Fleet Average Stock Car Miles per Gallon 2/ | 21.99 | 21.79 | 21.81 | 21.83 | 21.88 | 21.91 | 21.93 | 21.96 | 21.99 | 22.03 | 22.09 | 22.16 | 22.23 |
| Fleet Average Stock Truck Miles per Gallon 2/ | 17.14 | 16.92 | 16.86 | 16.82 | 16.80 | 16.78 | 16.76 | 16.73 | 16.71 | 16.69 | 16.70 | 16.71 | 16.73 |
| Fleet Average Stock Vehicle Miles per Gallon 2/ | 20.09 | 19.81 | 19.73 | 19.65 | 19.60 | 19.54 | 19.48 | 19.43 | 19.37 | 19.33 | 19.31 | 19.31 | 19.32 |

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type**
**(Miles per Gallon Gasoline Equivalent)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Automobiles 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 28.19 | 28.33 | 28.43 | 28.51 | 28.62 | 28.66 | 28.71 | 28.77 | 28.87 | 28.94 | 29.01 | 29.05 | 29.10 | 0.2% |
| TDI Diesel ICE | 36.64 | 36.72 | 36.73 | 36.79 | 36.89 | 36.91 | 36.93 | 36.97 | 37.04 | 37.14 | 37.24 | 37.32 | 37.47 | 0.0% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 28.04 | 28.18 | 28.28 | 28.38 | 28.48 | 28.53 | 28.58 | 28.64 | 28.73 | 28.81 | 28.88 | 28.93 | 28.98 | 0.3% |
| Methanol ICE | 28.48 | 28.60 | 28.71 | 28.81 | 28.91 | 28.98 | 29.04 | 29.11 | 29.21 | 29.29 | 29.36 | 29.42 | 29.46 | 0.1% |
| Ethanol-Flex Fuel ICE | 27.99 | 28.14 | 28.25 | 28.35 | 28.45 | 28.49 | 28.54 | 28.59 | 28.68 | 28.76 | 28.83 | 28.88 | 28.94 | 0.2% |
| Ethanol ICE | 27.75 | 27.89 | 28.01 | 28.12 | 28.23 | 28.30 | 28.36 | 28.43 | 28.53 | 28.61 | 28.69 | 28.74 | 28.80 | 0.2% |
| Natural Gas Technology | | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 28.05 | 28.13 | 28.19 | 28.26 | 28.32 | 28.35 | 28.37 | 28.42 | 28.49 | 28.54 | 28.59 | 28.61 | 28.63 | 0.0% |
| Compressed Natural Gas Bi-fuel | 26.97 | 27.06 | 27.12 | 27.17 | 27.22 | 27.24 | 27.24 | 27.27 | 27.34 | 27.39 | 27.43 | 27.45 | 27.46 | 0.1% |
| Liquefied Petroleum Gas ICE | 27.97 | 28.15 | 28.31 | 28.44 | 28.57 | 28.68 | 28.76 | 28.83 | 28.96 | 29.05 | 29.12 | 29.16 | 29.22 | 0.2% |
| Liquefied Petroleum Gas Bi-fuel | 27.03 | 27.14 | 27.22 | 27.30 | 27.37 | 27.42 | 27.45 | 27.50 | 27.59 | 27.65 | 27.71 | 27.74 | 27.76 | 0.1% |
| Electric Technology | | | | | | | | | | | | | | |
| Electric Vehicle | 49.56 | 49.44 | 49.38 | 49.34 | 49.26 | 49.22 | 49.19 | 49.13 | 49.15 | 49.18 | 49.21 | 49.23 | 49.25 | 1.5% |
| Electric-Diesel Hybrid | 40.71 | 40.73 | 40.68 | 40.66 | 40.72 | 40.68 | 40.65 | 40.65 | 40.65 | 40.66 | 40.69 | 40.70 | 40.75 | -0.3% |
| Electric-Gasoline Hybrid | 38.77 | 38.77 | 38.75 | 38.75 | 38.77 | 38.74 | 38.71 | 38.71 | 38.74 | 38.77 | 38.80 | 38.79 | 38.83 | 0.0% |
| Fuel Cell Technology | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 42.50 | 42.45 | 42.40 | 42.35 | 42.29 | 42.22 | 42.15 | 42.09 | 42.08 | 42.08 | 42.09 | 42.09 | 42.10 | N/A |
| Fuel Cell Methanol | 45.29 | 45.23 | 45.18 | 45.11 | 45.04 | 44.96 | 44.89 | 44.81 | 44.80 | 44.80 | 44.80 | 44.80 | 44.80 | N/A |
| Fuel Cell Hydrogen | 49.28 | 49.20 | 49.11 | 49.02 | 48.92 | 48.81 | 48.70 | 48.60 | 48.58 | 48.58 | 48.58 | 48.57 | 48.58 | N/A |
| Average New Car Miles per Gallon | 28.92 | 29.17 | 29.27 | 29.28 | 29.52 | 29.57 | 29.61 | 29.75 | 29.85 | 29.92 | 29.98 | 30.02 | 30.07 | 0.3% |
| Light-Duty Trucks 1/ | | | | | | | | | | | | | | |
| Conventional Vehicles | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 20.91 | 21.06 | 21.19 | 21.34 | 21.47 | 21.58 | 21.68 | 21.79 | 21.94 | 22.05 | 22.15 | 22.23 | 22.30 | 0.4% |
| TDI Diesel ICE | 26.13 | 26.20 | 26.27 | 26.35 | 26.42 | 26.46 | 26.51 | 26.57 | 26.67 | 26.75 | 26.83 | 26.88 | 26.92 | 0.0% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 21.29 | 21.45 | 21.60 | 21.75 | 21.89 | 22.01 | 22.11 | 22.23 | 22.39 | 22.50 | 22.61 | 22.69 | 22.77 | 0.7% |
| Methanol ICE | 23.33 | 23.46 | 23.57 | 23.70 | 23.81 | 23.91 | 23.99 | 24.10 | 24.24 | 24.34 | 24.45 | 24.53 | 24.60 | 0.3% |
| Ethanol-Flex Fuel ICE | 21.04 | 21.19 | 21.33 | 21.48 | 21.62 | 21.74 | 21.84 | 21.96 | 22.11 | 22.22 | 22.33 | 22.41 | 22.49 | 0.4% |
| Ethanol ICE | 22.80 | 22.93 | 23.05 | 23.18 | 23.29 | 23.40 | 23.49 | 23.60 | 23.76 | 23.87 | 23.98 | 24.07 | 24.14 | 0.4% |
| Natural Gas Technology | | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 23.58 | 23.66 | 23.73 | 23.82 | 23.92 | 23.98 | 24.03 | 24.11 | 24.24 | 24.33 | 24.42 | 24.48 | 24.54 | 0.2% |
| Compressed Natural Gas Bi-fuel | 19.83 | 19.92 | 20.02 | 20.11 | 20.21 | 20.28 | 20.32 | 20.40 | 20.51 | 20.58 | 20.65 | 20.70 | 20.75 | 0.3% |
| Liquefied Petroleum Gas ICE | 20.89 | 21.03 | 21.14 | 21.27 | 21.37 | 21.45 | 21.52 | 21.61 | 21.74 | 21.82 | 21.90 | 21.95 | 22.00 | 0.3% |
| Liquefied Petroleum Gas Bi-fuel | 19.65 | 19.78 | 19.91 | 20.04 | 20.16 | 20.26 | 20.33 | 20.42 | 20.56 | 20.65 | 20.73 | 20.80 | 20.86 | 0.4% |
| Electric Technology | | | | | | | | | | | | | | |
| Electric Vehicle | 37.00 | 37.20 | 37.53 | 37.75 | 37.85 | 37.91 | 37.86 | 37.88 | 37.91 | 37.93 | 37.96 | 37.98 | 38.00 | 1.8% |
| Electric-Diesel Hybrid | 31.88 | 31.92 | 31.94 | 31.97 | 32.04 | 32.05 | 32.07 | 32.13 | 32.21 | 32.28 | 32.35 | 32.41 | 32.48 | 0.0% |

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type**
**(Miles per Gallon Gasoline Equivalent)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric-Gasoline Hybrid | 29.14 | 29.17 | 29.18 | 29.21 | 29.25 | 29.26 | 29.28 | 29.32 | 29.41 | 29.49 | 29.56 | 29.61 | 29.67 | -0.1% |
| Fuel Cell Technology | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 36.35 | 36.30 | 36.25 | 36.18 | 36.11 | 36.05 | 35.98 | 35.91 | 35.91 | 35.91 | 35.92 | 35.93 | 35.94 | N/A |
| Fuel Cell Methanol | 38.79 | 38.74 | 38.68 | 38.62 | 38.55 | 38.48 | 38.41 | 38.35 | 38.36 | 38.38 | 38.40 | 38.42 | 38.44 | N/A |
| Fuel Cell Hydrogen | 42.44 | 42.37 | 42.30 | 42.22 | 42.15 | 42.07 | 42.00 | 41.93 | 41.96 | 41.99 | 42.04 | 42.07 | 42.11 | N/A |
| Average New Truck Miles per Gallon | 21.53 | 21.71 | 21.84 | 21.96 | 22.14 | 22.24 | 22.34 | 22.47 | 22.61 | 22.71 | 22.82 | 22.90 | 22.99 | 0.4% |
| Fleet Average Stock Car Miles per Gallon 2/ | 22.33 | 22.44 | 22.57 | 22.69 | 22.83 | 22.98 | 23.12 | 23.28 | 23.34 | 23.40 | 23.46 | 23.53 | 23.59 | 0.3% |
| Fleet Average Stock Truck Miles per Gallon 2/ | 16.77 | 16.82 | 16.88 | 16.94 | 17.01 | 17.08 | 17.15 | 17.22 | 17.31 | 17.40 | 17.49 | 17.57 | 17.66 | 0.2% |
| Fleet Average Stock Vehicle Miles per Gallon 2/ | 19.34 | 19.39 | 19.44 | 19.50 | 19.57 | 19.65 | 19.73 | 19.82 | 19.89 | 19.95 | 20.02 | 20.09 | 20.16 | 0.1% |

**Table 47. Light-Duty Vehicle Miles per Gallon by Technology Type**
**(Miles per Gallon Gasoline Equivalent)**

1/ Fuel efficiencies are EPA rated. Includes personal and fleet vehicles.
2/ Stock values are on-road efficiencies. Includes personal vehicles, fleet vehicles, and freight light trucks.
ICE = Internal combustion engine.
Sources: 2001 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 48. Light-Duty Vehicle Miles Traveled by Technology Type**
**(Billion Miles, Unless Otherwise Noted)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conventional Vehicles 1/ | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 2308.3 | 2338.2 | 2399.7 | 2416.9 | 2436.0 | 2470.5 | 2510.7 | 2552.4 | 2592.8 | 2634.1 | 2679.9 | 2721.5 | 2764.6 |
| TDI Diesel ICE | 22.6 | 27.7 | 33.0 | 38.3 | 43.9 | 50.0 | 56.1 | 61.8 | 67.8 | 73.8 | 79.7 | 85.1 | 90.4 |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Ethanol-Flex Fuel ICE | 19.5 | 32.8 | 46.1 | 58.7 | 71.1 | 82.8 | 94.0 | 105.1 | 116.1 | 126.9 | 137.9 | 148.5 | 158.6 |
| Ethanol ICE | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Natural Gas Technology | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Compressed Natural Gas Bi-fuel | 1.4 | 2.2 | 2.9 | 3.6 | 4.4 | 5.0 | 5.5 | 5.9 | 6.4 | 6.8 | 7.2 | 7.6 | 8.0 |
| Liquefied Petroleum Gas ICE | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 |
| Liquefied Petroleum Gas Bi-fuel | 2.0 | 4.8 | 7.5 | 10.3 | 13.0 | 15.5 | 17.2 | 18.7 | 20.2 | 21.7 | 23.2 | 24.7 | 26.1 |
| Electric Technology | | | | | | | | | | | | | |
| Electric Vehicle | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.7 | 0.8 | 1.0 | 1.1 | 1.4 | 1.6 | 1.9 | 2.2 |
| Electric-Diesel Hybrid | 0.0 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.7 | 1.2 | 1.7 | 2.3 | 2.9 | 3.6 |
| Electric-Gasoline Hybrid | 0.7 | 2.1 | 4.1 | 7.2 | 11.9 | 16.8 | 22.9 | 32.1 | 45.6 | 58.5 | 72.0 | 87.3 | 101.5 |
| Fuel Cell Technology | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Fuel Cell Hydrogen | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| VMT Equation Components | | | | | | | | | | | | | |
| Total VMT (billion miles) | 2355.1 | 2408.5 | 2494.3 | 2536.1 | 2581.6 | 2642.0 | 2708.2 | 2778.2 | 2851.8 | 2925.4 | 3004.4 | 3080.3 | 3155.9 |
| VMT per Driving Population (thousand miles) | 11.4 | 11.5 | 11.7 | 11.8 | 11.8 | 12.0 | 12.1 | 12.3 | 12.4 | 12.6 | 12.8 | 13.0 | 13.1 |
| Driving Population (million) | 213.1 | 215.4 | 217.8 | 220.1 | 222.4 | 224.8 | 227.3 | 229.7 | 232.1 | 234.4 | 236.6 | 238.7 | 240.7 |
| Price Effects | | | | | | | | | | | | | |
| Motor Gasoline Price (1987 $ per million Btu) | 8.81 | 8.20 | 7.77 | 8.21 | 8.07 | 8.00 | 8.07 | 8.09 | 8.10 | 8.16 | 8.17 | 8.10 | 8.08 |
| Fleet Miles per Gallon | 20.23 | 19.92 | 19.81 | 19.72 | 19.66 | 19.59 | 19.53 | 19.47 | 19.43 | 19.39 | 19.38 | 19.38 | 19.39 |
| Real Cost of Driving per Mile (1987 cents) | 7.019 | 6.640 | 6.322 | 6.713 | 6.619 | 6.588 | 6.666 | 6.695 | 6.720 | 6.782 | 6.801 | 6.737 | 6.716 |
| Point Price Elasticity | -0.046 | -0.043 | -0.040 | -0.043 | -0.042 | -0.041 | -0.041 | -0.041 | -0.041 | -0.040 | -0.040 | -0.039 | -0.038 |
| Income Effects | | | | | | | | | | | | | |
| Disposable Income (billion 1987 dollars) | 5737.2 | 5839.1 | 6097.6 | 6196.2 | 6272.3 | 6421.2 | 6598.7 | 6791.0 | 7003.7 | 7225.1 | 7473.7 | 7705.6 | 7944.7 |
| Point Income Elasticity | 0.501 | 0.501 | 0.507 | 0.509 | 0.508 | 0.510 | 0.514 | 0.518 | 0.523 | 0.528 | 0.533 | 0.538 | 0.543 |
| Demographic Driving Population Effect | | | | | | | | | | | | | |
| Percentage Female Driving Population | 0.601 | 0.610 | 0.617 | 0.624 | 0.630 | 0.636 | 0.641 | 0.646 | 0.650 | 0.654 | 0.658 | 0.661 | 0.664 |
| Point Demographic Elasticity | 0.339 | 0.341 | 0.337 | 0.340 | 0.342 | 0.341 | 0.340 | 0.338 | 0.336 | 0.334 | 0.330 | 0.327 | 0.324 |

**Table 48. Light-Duty Vehicle Miles Traveled by Technology Type**
**(Billion Miles, Unless Otherwise Noted)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conventional Vehicles 1/ | | | | | | | | | | | | | | |
| Gasoline ICE Vehicles | 2809.9 | 2850.3 | 2890.4 | 2932.3 | 2972.3 | 3016.3 | 3065.3 | 3107.2 | 3145.6 | 3188.5 | 3238.5 | 3294.0 | 3346.5 | 1.5% |
| TDI Diesel ICE | 95.7 | 100.9 | 105.6 | 110.3 | 115.1 | 119.9 | 124.8 | 129.4 | 133.3 | 137.3 | 141.6 | 146.1 | 151.0 | 7.3% |
| Alternative-Fuel Vehicles | | | | | | | | | | | | | | |
| Alcohol Fuel Technology | | | | | | | | | | | | | | |
| Methanol-Flex Fuel ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -11.5% |
| Methanol ICE | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2% |
| Ethanol-Flex Fuel ICE | 168.6 | 178.1 | 187.3 | 195.9 | 204.1 | 212.1 | 220.0 | 227.0 | 233.3 | 239.6 | 246.1 | 252.8 | 259.0 | 9.0% |
| Ethanol ICE | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.6 | 10.3% |
| Natural Gas Technology | | | | | | | | | | | | | | |
| Compressed Natural Gas ICE | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 2.5% |
| Compressed Natural Gas Bi-fuel | 8.4 | 8.8 | 9.2 | 9.5 | 9.9 | 10.2 | 10.5 | 10.7 | 11.0 | 11.2 | 11.4 | 11.6 | 11.9 | 7.3% |
| Liquefied Petroleum Gas ICE | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 0.8 | 0.8 | 0.9 | 1.0 | 1.0 | 7.0% |
| Liquefied Petroleum Gas Bi-fuel | 27.5 | 28.9 | 30.2 | 31.5 | 32.6 | 33.7 | 34.8 | 35.7 | 36.5 | 37.2 | 38.0 | 38.8 | 39.6 | 9.2% |
| Electric Technology | | | | | | | | | | | | | | |
| Electric Vehicle | 2.5 | 2.8 | 3.2 | 3.6 | 4.1 | 4.7 | 5.2 | 5.9 | 6.6 | 7.3 | 8.0 | 8.6 | 9.2 | 16.5% |
| Electric-Diesel Hybrid | 4.3 | 5.2 | 6.1 | 6.9 | 8.0 | 9.1 | 10.2 | 11.5 | 12.7 | 13.9 | 15.0 | 16.3 | 17.6 | 25.0% |
| Electric-Gasoline Hybrid | 115.7 | 131.6 | 147.4 | 161.4 | 177.2 | 192.8 | 208.3 | 223.8 | 238.6 | 253.2 | 267.7 | 282.1 | 295.5 | 22.9% |
| Fuel Cell Technology | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Methanol | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Fuel Cell Hydrogen | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.5 | 0.6 | N/A |
| VMT Equation Components | | | | | | | | | | | | | | |
| Total VMT (billion miles) | 3233.6 | 3307.5 | 3380.4 | 3452.3 | 3524.4 | 3600.0 | 3680.4 | 3752.7 | 3819.2 | 3889.9 | 3968.1 | 4052.5 | 4132.5 | 2.3% |
| VMT per Driving Population (thousand miles) | 13.3 | 13.5 | 13.7 | 13.9 | 14.1 | 14.3 | 14.5 | 14.6 | 14.8 | 14.9 | 15.1 | 15.3 | 15.5 | 1.3% |
| Driving Population (million) | 242.7 | 244.7 | 246.7 | 248.7 | 250.6 | 252.6 | 254.5 | 256.5 | 258.5 | 260.4 | 262.5 | 264.5 | 266.6 | 0.9% |
| Price Effects | | | | | | | | | | | | | | |
| Motor Gasoline Price (1987 $ per million Btu) | 8.03 | 8.05 | 8.04 | 8.07 | 8.18 | 8.21 | 8.22 | 8.23 | 8.21 | 8.24 | 8.32 | 8.37 | 8.57 | 0.2% |
| Fleet Miles per Gallon | 19.42 | 19.47 | 19.53 | 19.59 | 19.67 | 19.75 | 19.84 | 19.93 | 20.01 | 20.08 | 20.15 | 20.23 | 20.30 | 0.1% |
| Real Cost of Driving per Mile (1987 cents) | 6.669 | 6.666 | 6.636 | 6.638 | 6.706 | 6.704 | 6.683 | 6.654 | 6.620 | 6.619 | 6.657 | 6.674 | 6.802 | 0.1% |
| Point Price Elasticity | -0.038 | -0.037 | -0.036 | -0.036 | -0.036 | -0.035 | -0.035 | -0.034 | -0.034 | -0.033 | -0.033 | -0.033 | -0.033 | -1.1% |
| Income Effects | | | | | | | | | | | | | | |
| Disposable Income (billion 1987 dollars) | 8192.1 | 8461.4 | 8727.9 | 8994.4 | 9269.1 | 9555.7 | 9864.0 | 10135.4 | 10386.5 | 10658.9 | 10968.7 | 11302.0 | 11625.5 | 2.9% |
| Point Income Elasticity | 0.548 | 0.553 | 0.558 | 0.563 | 0.568 | 0.573 | 0.579 | 0.583 | 0.587 | 0.592 | 0.597 | 0.602 | 0.607 | 0.8% |
| Demographic Driving Population Effect | | | | | | | | | | | | | | |
| Percentage Female Driving Population | 0.666 | 0.668 | 0.670 | 0.672 | 0.674 | 0.675 | 0.676 | 0.677 | 0.677 | 0.677 | 0.677 | 0.677 | 0.677 | 0.4% |
| Point Demographic Elasticity | 0.321 | 0.317 | 0.314 | 0.311 | 0.308 | 0.304 | 0.300 | 0.297 | 0.294 | 0.291 | 0.288 | 0.284 | 0.280 | -0.8% |

**Table 48. Light-Duty Vehicle Miles Traveled by Technology Type**
**(Billion Miles, Unless Otherwise Noted)**

1/ Includes personal and fleet vehicles. Includes both cars and light trucks.
VMT = Vehicle miles traveled.
ICE = Internal combustion engine.
N/A = Not applicable.
Sources: 2001 derived using: Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 22 and Annual (Oak Ridge, TN, September 2002); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); and Energy Information Administration (EIA), AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 49. Summary of New Light-Duty Vehicle Size Class Attributes**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Personal Vehicles | | | | | | | | | | | | | |
| EPA Rated New Vehicle Fuel Efficiency | | | | | | | | | | | | | |
| Conventional Cars (miles per gallon) | | | | | | | | | | | | | |
| Minicompact | 24.500 | 24.449 | 24.687 | 24.800 | 24.895 | 24.818 | 25.043 | 25.044 | 24.861 | 25.069 | 25.397 | 25.543 | 25.717 |
| Subcompact | 31.037 | 30.989 | 30.889 | 30.931 | 30.976 | 30.800 | 30.632 | 30.443 | 30.176 | 30.274 | 30.428 | 30.504 | 30.657 |
| Compact | 30.276 | 30.206 | 30.131 | 30.196 | 30.297 | 30.192 | 30.093 | 29.968 | 29.718 | 29.823 | 29.983 | 30.083 | 30.249 |
| Midsize | 26.726 | 26.665 | 26.598 | 26.663 | 26.734 | 26.627 | 26.553 | 26.423 | 26.199 | 26.306 | 26.478 | 26.565 | 26.687 |
| Large | 25.264 | 25.197 | 25.108 | 25.108 | 25.100 | 24.924 | 24.769 | 24.587 | 24.351 | 24.431 | 24.573 | 24.673 | 24.820 |
| Two Seater | 24.873 | 24.893 | 24.952 | 24.960 | 25.000 | 24.868 | 24.755 | 24.631 | 24.423 | 24.548 | 24.760 | 24.872 | 25.041 |
| Average New Car | 28.124 | 27.984 | 27.928 | 28.136 | 28.105 | 27.982 | 27.892 | 27.739 | 27.502 | 27.610 | 27.765 | 27.849 | 28.005 |
| Average New Car On-Road Miles per Gallon | 20.942 | 20.729 | 20.777 | 21.019 | 21.094 | 21.091 | 21.113 | 21.085 | 20.993 | 21.163 | 21.372 | 21.527 | 21.737 |
| Conventional Light Trucks | | | | | | | | | | | | | |
| Small Pickup | 22.293 | 22.231 | 22.208 | 22.248 | 22.297 | 22.387 | 22.346 | 22.321 | 22.156 | 22.305 | 22.518 | 22.635 | 22.826 |
| Large Pickup | 18.883 | 18.851 | 18.818 | 18.823 | 18.824 | 18.853 | 18.803 | 18.752 | 18.612 | 18.726 | 18.900 | 19.032 | 19.209 |
| Small Van | 23.257 | 23.165 | 23.073 | 23.091 | 23.104 | 23.112 | 22.894 | 22.782 | 22.571 | 22.664 | 22.838 | 22.921 | 23.071 |
| Large Van | 18.100 | 18.066 | 18.027 | 18.028 | 18.037 | 18.087 | 18.055 | 18.043 | 17.912 | 18.054 | 18.258 | 18.406 | 18.628 |
| Small Utility | 21.187 | 21.123 | 21.110 | 21.146 | 21.185 | 21.244 | 21.206 | 21.197 | 21.039 | 21.204 | 21.459 | 21.580 | 21.780 |
| Large Utility | 17.510 | 17.497 | 17.472 | 17.482 | 17.489 | 17.531 | 17.452 | 17.424 | 17.305 | 17.423 | 17.654 | 17.802 | 18.006 |
| Average New Light Truck | 20.463 | 20.423 | 20.390 | 20.416 | 20.423 | 20.469 | 20.376 | 20.329 | 20.167 | 20.304 | 20.516 | 20.633 | 20.826 |
| Average New Light Truck On-Road MPG | 16.627 | 16.422 | 16.383 | 16.388 | 16.387 | 16.410 | 16.322 | 16.270 | 16.128 | 16.223 | 16.381 | 16.461 | 16.601 |
| Degradation Factors 1/ | | | | | | | | | | | | | |
| Cars | 0.745 | 0.741 | 0.744 | 0.747 | 0.751 | 0.754 | 0.757 | 0.760 | 0.763 | 0.767 | 0.770 | 0.773 | 0.776 |
| Light Trucks | 0.813 | 0.804 | 0.803 | 0.803 | 0.802 | 0.802 | 0.801 | 0.800 | 0.800 | 0.799 | 0.798 | 0.798 | 0.797 |
| New Fuel Efficiency by Size Class 2/ | | | | | | | | | | | | | |
| Alternative-Fuel Cars | | | | | | | | | | | | | |
| Minicompact | 26.32 | 26.79 | 27.62 | 28.60 | 29.76 | 29.93 | 30.53 | 31.27 | 31.93 | 32.19 | 32.89 | 33.21 | 33.39 |
| Subcompact | 33.427 | 32.751 | 33.126 | 34.161 | 35.684 | 35.660 | 36.382 | 38.280 | 39.751 | 39.540 | 39.561 | 39.896 | 39.720 |
| Compact | 32.516 | 31.520 | 31.994 | 32.956 | 34.405 | 34.437 | 35.209 | 36.329 | 37.251 | 37.031 | 37.091 | 37.527 | 37.342 |
| Midsize | 29.277 | 28.725 | 29.153 | 29.920 | 30.932 | 30.833 | 30.887 | 31.467 | 32.330 | 32.151 | 32.281 | 32.687 | 32.531 |
| Large | 27.365 | 26.779 | 27.162 | 27.856 | 28.720 | 28.611 | 28.966 | 30.050 | 30.781 | 30.596 | 30.647 | 31.014 | 30.891 |
| Two Seater | 26.643 | 27.097 | 27.701 | 28.463 | 29.384 | 30.161 | 31.316 | 32.162 | 33.116 | 33.756 | 34.995 | 38.038 | 40.983 |
| Average New Alternative Cars | 29.841 | 29.236 | 29.668 | 30.686 | 31.713 | 31.652 | 32.091 | 33.076 | 34.098 | 33.926 | 34.026 | 34.448 | 34.341 |
| Alternative-Fuel Light Trucks | | | | | | | | | | | | | |
| Small Pickup | 22.517 | 22.453 | 22.427 | 22.465 | 22.508 | 22.582 | 22.531 | 22.498 | 22.328 | 22.490 | 22.708 | 22.835 | 23.032 |
| Large Pickup | 19.072 | 19.037 | 19.008 | 19.011 | 19.011 | 19.039 | 18.982 | 18.932 | 18.797 | 18.915 | 19.095 | 19.232 | 19.414 |
| Small Van | 25.203 | 24.439 | 24.836 | 25.594 | 26.670 | 26.858 | 27.121 | 28.091 | 28.464 | 28.439 | 28.447 | 28.688 | 28.569 |
| Large Van | 18.300 | 18.261 | 18.226 | 18.226 | 18.234 | 18.282 | 18.243 | 18.232 | 18.112 | 18.251 | 18.458 | 18.610 | 18.835 |
| Small Utility | 22.441 | 22.016 | 22.257 | 22.712 | 23.333 | 23.415 | 23.634 | 23.909 | 24.269 | 24.305 | 24.540 | 24.805 | 24.884 |
| Large Utility | 18.204 | 17.951 | 18.065 | 18.336 | 18.765 | 18.847 | 18.906 | 19.337 | 19.901 | 19.928 | 20.119 | 20.377 | 20.486 |
| Average New Alternative Light Trucks | 21.310 | 21.082 | 21.309 | 21.788 | 22.364 | 22.502 | 22.692 | 23.208 | 23.638 | 23.672 | 23.827 | 24.099 | 24.135 |
| Fleet Vehicles | | | | | | | | | | | | | |
| EPA Rated New Vehicle Fuel Efficiency | | | | | | | | | | | | | |
| Cars | 28.203 | 28.144 | 28.066 | 28.118 | 28.181 | 28.052 | 27.945 | 27.797 | 27.556 | 27.657 | 27.819 | 27.909 | 28.050 |
| Light Trucks | 19.551 | 19.519 | 19.478 | 19.490 | 19.505 | 19.548 | 19.465 | 19.422 | 19.274 | 19.393 | 19.592 | 19.721 | 19.910 |
| Average On-Road Miles per Gallon | | | | | | | | | | | | | |
| Cars | 20.850 | 20.768 | 20.834 | 20.932 | 21.063 | 21.160 | 21.225 | 21.253 | 21.227 | 21.242 | 21.307 | 21.417 | 21.596 |
| Light Trucks | 15.842 | 15.726 | 15.714 | 15.674 | 15.641 | 15.628 | 15.605 | 15.581 | 15.533 | 15.502 | 15.503 | 15.533 | 15.599 |

**Table 49. Summary of New Light-Duty Vehicle Size Class Attributes**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Vehicle Sales Shares (percent) | | | | | | | | | | | | | |
| Conventional Cars | | | | | | | | | | | | | |
| Minicompact | 0.381 | 0.356 | 0.358 | 0.399 | 0.375 | 0.379 | 0.385 | 0.381 | 0.381 | 0.381 | 0.379 | 0.376 | 0.378 |
| Subcompact | 14.539 | 13.639 | 13.656 | 15.149 | 14.310 | 14.296 | 14.459 | 14.391 | 14.382 | 14.482 | 14.413 | 14.306 | 14.394 |
| Compact | 33.529 | 32.214 | 32.586 | 34.554 | 33.196 | 33.386 | 33.722 | 33.595 | 33.602 | 33.723 | 33.639 | 33.414 | 33.550 |
| Midsize | 34.761 | 35.900 | 35.567 | 33.834 | 35.038 | 34.897 | 34.618 | 34.716 | 34.710 | 34.588 | 34.663 | 34.856 | 34.739 |
| Large | 15.097 | 16.176 | 16.120 | 14.385 | 15.380 | 15.334 | 15.112 | 15.215 | 15.224 | 15.131 | 15.209 | 15.349 | 15.241 |
| Two Seater | 1.694 | 1.715 | 1.713 | 1.679 | 1.701 | 1.707 | 1.705 | 1.702 | 1.701 | 1.695 | 1.697 | 1.699 | 1.697 |
| Conventional Light Trucks | | | | | | | | | | | | | |
| Small Pickup | 12.508 | 13.088 | 12.881 | 12.020 | 12.626 | 12.513 | 11.994 | 12.328 | 12.351 | 12.376 | 12.410 | 12.524 | 12.452 |
| Large Pickup | 21.795 | 21.670 | 21.418 | 21.725 | 21.755 | 21.642 | 21.411 | 21.548 | 21.543 | 21.580 | 21.557 | 21.592 | 21.595 |
| Small Van | 17.759 | 16.918 | 17.164 | 18.462 | 17.544 | 17.683 | 17.514 | 17.704 | 17.720 | 17.877 | 17.808 | 17.668 | 17.747 |
| Large Van | 2.523 | 2.505 | 2.470 | 2.514 | 2.515 | 2.498 | 2.387 | 2.462 | 2.468 | 2.486 | 2.481 | 2.489 | 2.486 |
| Small Utility | 31.709 | 32.057 | 32.186 | 31.548 | 31.826 | 31.876 | 32.556 | 32.063 | 32.035 | 31.866 | 31.916 | 31.920 | 31.908 |
| Large Utility | 13.706 | 13.762 | 13.880 | 13.732 | 13.735 | 13.788 | 14.138 | 13.895 | 13.883 | 13.814 | 13.828 | 13.807 | 13.813 |
| New Vehicle Average Horsepower | | | | | | | | | | | | | |
| Conventional Cars | | | | | | | | | | | | | |
| Minicompact | 241.000 | 243.527 | 250.060 | 250.919 | 252.217 | 256.366 | 262.283 | 267.315 | 272.352 | 274.267 | 276.461 | 278.160 | 279.766 |
| Subcompact | 145.508 | 148.890 | 154.022 | 154.062 | 155.418 | 158.314 | 161.430 | 165.217 | 169.103 | 171.039 | 173.173 | 174.962 | 176.675 |
| Compact | 137.154 | 140.189 | 145.412 | 145.611 | 147.527 | 151.025 | 154.643 | 158.965 | 162.928 | 164.979 | 167.178 | 169.170 | 170.967 |
| Midsize | 177.370 | 180.668 | 186.889 | 187.294 | 189.405 | 193.802 | 198.351 | 203.307 | 208.289 | 210.960 | 213.945 | 216.359 | 218.539 |
| Large | 220.713 | 222.928 | 226.863 | 226.819 | 227.650 | 231.230 | 235.266 | 239.687 | 244.263 | 246.083 | 248.149 | 250.093 | 251.973 |
| Two Seater | 264.779 | 267.296 | 271.190 | 271.395 | 272.902 | 277.513 | 282.832 | 288.385 | 293.617 | 295.415 | 297.374 | 298.894 | 299.981 |
| Average New Car | 167.520 | 171.840 | 176.999 | 175.208 | 178.177 | 181.853 | 185.538 | 190.156 | 194.583 | 196.660 | 199.192 | 201.481 | 203.262 |
| Conventional Light Trucks | | | | | | | | | | | | | |
| Small Pickup | 161.743 | 164.852 | 170.543 | 170.880 | 172.742 | 176.155 | 182.452 | 187.876 | 192.267 | 195.163 | 197.978 | 199.867 | 202.044 |
| Large Pickup | 220.453 | 226.217 | 233.794 | 233.834 | 235.521 | 238.773 | 246.999 | 253.316 | 258.863 | 261.592 | 264.807 | 267.293 | 269.784 |
| Small Van | 180.807 | 184.109 | 190.253 | 190.334 | 191.911 | 194.389 | 200.435 | 205.714 | 210.440 | 213.099 | 216.353 | 218.560 | 220.898 |
| Large Van | 220.000 | 224.312 | 231.163 | 231.215 | 232.957 | 236.214 | 244.442 | 250.698 | 256.019 | 258.882 | 262.188 | 264.819 | 267.497 |
| Small Utility | 182.121 | 186.387 | 193.057 | 193.415 | 195.244 | 197.932 | 204.966 | 210.163 | 214.561 | 216.763 | 219.072 | 220.577 | 221.707 |
| Large Utility | 241.700 | 246.550 | 254.433 | 254.505 | 256.131 | 259.014 | 267.139 | 273.094 | 278.895 | 281.750 | 284.946 | 287.458 | 289.777 |
| Average New Light Truck | 196.815 | 201.044 | 207.861 | 208.258 | 209.892 | 212.798 | 220.204 | 225.668 | 230.576 | 233.134 | 236.008 | 238.049 | 240.038 |
| New Vehicle Average Weight | | | | | | | | | | | | | |
| Conventional Cars | | | | | | | | | | | | | |
| Minicompact | 3488.000 | 3492.229 | 3490.119 | 3492.739 | 3494.864 | 3535.087 | 3578.906 | 3624.903 | 3673.611 | 3673.237 | 3670.498 | 3671.270 | 3671.182 |
| Subcompact | 2775.394 | 2779.752 | 2783.444 | 2786.667 | 2789.982 | 2823.453 | 2862.754 | 2903.039 | 2944.671 | 2946.560 | 2947.376 | 2949.102 | 2950.117 |
| Compact | 2831.433 | 2835.640 | 2839.544 | 2842.929 | 2846.926 | 2881.908 | 2922.580 | 2964.210 | 3006.659 | 3008.519 | 3009.068 | 3010.912 | 3012.010 |
| Midsize | 3310.185 | 3314.365 | 3318.244 | 3322.154 | 3326.227 | 3366.612 | 3412.533 | 3459.284 | 3507.673 | 3509.986 | 3511.051 | 3513.619 | 3515.470 |
| Large | 3681.988 | 3686.566 | 3691.065 | 3695.462 | 3699.629 | 3744.252 | 3795.279 | 3847.319 | 3900.474 | 3903.801 | 3906.237 | 3909.252 | 3911.877 |
| Two Seater | 3007.075 | 3011.331 | 3014.824 | 3017.784 | 3021.142 | 3057.483 | 3099.195 | 3141.897 | 3186.227 | 3188.058 | 3188.286 | 3190.622 | 3192.148 |
| Average New Car | 3123.583 | 3142.879 | 3144.741 | 3124.712 | 3143.252 | 3180.408 | 3220.960 | 3267.186 | 3313.313 | 3314.035 | 3316.182 | 3320.711 | 3320.698 |
| Conventional Light Trucks | | | | | | | | | | | | | |
| Small Pickup | 3639.872 | 3646.764 | 3652.888 | 3659.711 | 3666.533 | 3673.348 | 3765.968 | 3820.155 | 3875.645 | 3882.031 | 3887.131 | 3892.700 | 3897.938 |
| Large Pickup | 4707.611 | 4716.477 | 4724.342 | 4733.213 | 4741.925 | 4750.408 | 4868.926 | 4937.081 | 5006.684 | 5015.047 | 5022.617 | 5030.831 | 5038.662 |
| Small Van | 4065.081 | 4072.712 | 4079.700 | 4086.845 | 4093.716 | 4100.047 | 4201.472 | 4259.573 | 4320.087 | 4325.859 | 4330.471 | 4336.536 | 4341.824 |
| Large Van | 4748.000 | 4756.688 | 4764.321 | 4772.945 | 4780.930 | 4787.769 | 4902.907 | 4967.774 | 5036.605 | 5042.423 | 5045.487 | 5051.193 | 5055.346 |
| Small Utility | 3861.135 | 3868.523 | 3874.687 | 3881.245 | 3887.593 | 3893.134 | 3987.880 | 4042.172 | 4100.053 | 4105.107 | 4108.396 | 4113.861 | 4118.482 |
| Large Utility | 5152.408 | 5161.592 | 5169.825 | 5178.843 | 5187.095 | 5193.917 | 5318.005 | 5387.320 | 5461.468 | 5467.348 | 5470.580 | 5476.979 | 5481.636 |
| Average New Light Truck | 4253.521 | 4257.999 | 4265.030 | 4278.269 | 4282.656 | 4289.450 | 4397.206 | 4455.816 | 4518.758 | 4524.821 | 4529.175 | 4535.024 | 4540.945 |
| Average Weight for the Stock | | | | | | | | | | | | | |

**Table 49. Summary of New Light-Duty Vehicle Size Class Attributes**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conventional Cars | 3132 | 3130 | 3128 | 3127 | 3128 | 3131 | 3136 | 3144 | 3154 | 3165 | 3176 | 3189 | 3201 |
| Conventional Light Trucks | 4037 | 4064 | 4088 | 4112 | 4133 | 4153 | 4179 | 4206 | 4236 | 4262 | 4289 | 4314 | 4337 |

**Table 49. Summary of New Light-Duty Vehicle Size Class Attributes**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Personal Vehicles | | | | | | | | | | | | | | |
| EPA Rated New Vehicle Fuel Efficiency | | | | | | | | | | | | | | |
| Conventional Cars (miles per gallon) | | | | | | | | | | | | | | |
| Minicompact | 25.874 | 25.964 | 26.034 | 26.096 | 26.162 | 26.212 | 26.259 | 26.307 | 26.389 | 26.453 | 26.521 | 26.575 | 26.609 | 0.4% |
| Subcompact | 30.840 | 30.984 | 31.104 | 31.204 | 31.299 | 31.366 | 31.430 | 31.510 | 31.632 | 31.715 | 31.793 | 31.850 | 31.888 | 0.1% |
| Compact | 30.454 | 30.620 | 30.705 | 30.772 | 30.839 | 30.881 | 30.919 | 30.974 | 31.074 | 31.138 | 31.199 | 31.240 | 31.267 | 0.1% |
| Midsize | 26.825 | 26.919 | 27.004 | 27.088 | 27.164 | 27.214 | 27.259 | 27.305 | 27.388 | 27.447 | 27.504 | 27.547 | 27.575 | 0.1% |
| Large | 24.998 | 25.144 | 25.250 | 25.347 | 25.447 | 25.523 | 25.578 | 25.649 | 25.753 | 25.830 | 25.909 | 25.957 | 25.992 | 0.1% |
| Two Seater | 25.238 | 25.363 | 25.467 | 25.568 | 25.668 | 25.736 | 25.783 | 25.840 | 25.931 | 26.000 | 26.072 | 26.127 | 26.164 | 0.2% |
| Average New Car | 28.174 | 28.324 | 28.416 | 28.504 | 28.611 | 28.654 | 28.696 | 28.765 | 28.862 | 28.934 | 29.007 | 29.048 | 29.100 | 0.2% |
| Average New Car On-Road Miles per Gallon | 21.959 | 22.167 | 22.331 | 22.492 | 22.669 | 22.795 | 22.921 | 23.069 | 23.146 | 23.203 | 23.262 | 23.293 | 23.335 | 0.5% |
| Conventional Light Trucks | | | | | | | | | | | | | | |
| Small Pickup | 23.041 | 23.226 | 23.436 | 23.604 | 23.779 | 23.903 | 24.026 | 24.166 | 24.344 | 24.468 | 24.573 | 24.650 | 24.718 | 0.4% |
| Large Pickup | 19.411 | 19.544 | 19.684 | 19.829 | 19.950 | 20.066 | 20.147 | 20.247 | 20.383 | 20.489 | 20.569 | 20.633 | 20.700 | 0.4% |
| Small Van | 23.211 | 23.328 | 23.432 | 23.552 | 23.644 | 23.735 | 23.824 | 23.935 | 24.092 | 24.202 | 24.314 | 24.392 | 24.463 | 0.2% |
| Large Van | 18.894 | 19.048 | 19.184 | 19.329 | 19.463 | 19.583 | 19.666 | 19.776 | 19.935 | 20.039 | 20.156 | 20.253 | 20.348 | 0.5% |
| Small Utility | 22.002 | 22.176 | 22.315 | 22.476 | 22.625 | 22.752 | 22.867 | 23.000 | 23.163 | 23.274 | 23.393 | 23.483 | 23.557 | 0.5% |
| Large Utility | 18.203 | 18.333 | 18.457 | 18.588 | 18.707 | 18.794 | 18.874 | 18.979 | 19.123 | 19.209 | 19.307 | 19.385 | 19.454 | 0.4% |
| Average New Light Truck | 21.030 | 21.177 | 21.317 | 21.468 | 21.597 | 21.708 | 21.806 | 21.920 | 22.072 | 22.179 | 22.281 | 22.361 | 22.433 | 0.4% |
| Average New Light Truck On-Road MPG | 16.751 | 16.854 | 16.952 | 17.059 | 17.148 | 17.222 | 17.286 | 17.362 | 17.482 | 17.566 | 17.647 | 17.710 | 17.767 | 0.3% |
| Degradation Factors 1/ | | | | | | | | | | | | | | |
| Cars | 0.779 | 0.783 | 0.786 | 0.789 | 0.792 | 0.796 | 0.799 | 0.802 | 0.802 | 0.802 | 0.802 | 0.802 | 0.802 | 0.3% |
| Light Trucks | 0.797 | 0.796 | 0.795 | 0.795 | 0.794 | 0.793 | 0.793 | 0.792 | 0.792 | 0.792 | 0.792 | 0.792 | 0.792 | -0.1% |
| New Fuel Efficiency by Size Class 2/ | | | | | | | | | | | | | | |
| Alternative-Fuel Cars | | | | | | | | | | | | | | |
| Minicompact | 33.63 | 33.19 | 32.98 | 32.86 | 32.61 | 32.61 | 32.68 | 32.50 | 32.54 | 32.63 | 32.63 | 32.67 | 32.69 | 0.8% |
| Subcompact | 39.780 | 40.053 | 40.079 | 39.885 | 40.230 | 40.280 | 40.281 | 40.429 | 40.531 | 40.564 | 40.601 | 40.616 | 40.629 | 0.9% |
| Compact | 37.456 | 37.834 | 37.866 | 37.617 | 38.052 | 38.100 | 38.086 | 38.270 | 38.370 | 38.392 | 38.420 | 38.426 | 38.439 | 0.8% |
| Midsize | 32.636 | 33.016 | 33.071 | 32.878 | 33.313 | 33.349 | 33.364 | 33.540 | 33.605 | 33.646 | 33.677 | 33.726 | 33.748 | 0.7% |
| Large | 31.000 | 31.363 | 31.423 | 31.263 | 31.683 | 31.737 | 31.755 | 31.938 | 32.044 | 32.102 | 32.161 | 32.189 | 32.243 | 0.8% |
| Two Seater | 41.982 | 43.752 | 44.307 | 44.574 | 45.575 | 45.669 | 45.513 | 46.236 | 46.320 | 46.239 | 46.257 | 46.200 | 46.157 | 2.2% |
| Average New Alternative Cars | 34.466 | 34.923 | 35.000 | 34.818 | 35.348 | 35.379 | 35.365 | 35.634 | 35.720 | 35.750 | 35.792 | 35.806 | 35.849 | 0.9% |
| Alternative-Fuel Light Trucks | | | | | | | | | | | | | | |
| Small Pickup | 23.252 | 23.440 | 23.654 | 23.848 | 24.019 | 24.139 | 24.266 | 24.417 | 24.614 | 24.755 | 24.875 | 24.961 | 25.030 | 0.5% |
| Large Pickup | 19.629 | 19.777 | 19.930 | 20.092 | 20.224 | 20.337 | 20.437 | 20.535 | 20.664 | 20.763 | 20.842 | 20.905 | 20.972 | 0.4% |
| Small Van | 28.546 | 28.693 | 28.709 | 28.625 | 28.887 | 28.953 | 28.987 | 29.161 | 29.300 | 29.374 | 29.453 | 29.501 | 29.560 | 0.8% |
| Large Van | 19.106 | 19.274 | 19.421 | 19.585 | 19.731 | 19.862 | 19.958 | 20.073 | 20.230 | 20.359 | 20.461 | 20.549 | 20.640 | 0.5% |
| Small Utility | 25.075 | 25.372 | 25.500 | 25.521 | 25.831 | 25.937 | 26.029 | 26.225 | 26.373 | 26.487 | 26.592 | 26.692 | 26.782 | 0.8% |
| Large Utility | 20.669 | 20.907 | 21.016 | 21.032 | 21.305 | 21.383 | 21.441 | 21.614 | 21.755 | 21.832 | 21.918 | 21.980 | 22.051 | 0.9% |
| Average New Alternative Light Trucks | 24.275 | 24.542 | 24.639 | 24.637 | 24.970 | 25.061 | 25.136 | 25.338 | 25.486 | 25.586 | 25.688 | 25.762 | 25.860 | 0.9% |
| Fleet Vehicles | | | | | | | | | | | | | | |
| EPA Rated New Vehicle Fuel Efficiency | | | | | | | | | | | | | | |
| Cars | 28.217 | 28.343 | 28.438 | 28.524 | 28.606 | 28.662 | 28.711 | 28.769 | 28.866 | 28.934 | 28.999 | 29.046 | 29.076 | 0.1% |
| Light Trucks | 20.111 | 20.246 | 20.377 | 20.514 | 20.634 | 20.736 | 20.820 | 20.927 | 21.074 | 21.174 | 21.272 | 21.348 | 21.420 | 0.4% |
| Average On-Road Miles per Gallon | | | | | | | | | | | | | | |
| Cars | 21.793 | 21.987 | 22.182 | 22.366 | 22.534 | 22.689 | 22.835 | 22.976 | 23.028 | 23.082 | 23.139 | 23.194 | 23.236 | 0.5% |
| Light Trucks | 15.714 | 15.835 | 15.949 | 16.062 | 16.164 | 16.249 | 16.327 | 16.401 | 16.489 | 16.575 | 16.659 | 16.743 | 16.821 | 0.3% |

**Table 49. Summary of New Light-Duty Vehicle Size Class Attributes**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| New Vehicle Sales Shares (percent) | | | | | | | | | | | | | | |
| Conventional Cars | | | | | | | | | | | | | | |
| Minicompact | 0.377 | 0.379 | 0.378 | 0.380 | 0.384 | 0.380 | 0.379 | 0.379 | 0.379 | 0.380 | 0.382 | 0.381 | 0.387 | 0.3% |
| Subcompact | 14.365 | 14.450 | 14.412 | 14.467 | 14.594 | 14.477 | 14.443 | 14.453 | 14.444 | 14.499 | 14.561 | 14.521 | 14.722 | 0.3% |
| Compact | 33.471 | 33.611 | 33.575 | 33.655 | 33.849 | 33.657 | 33.611 | 33.584 | 33.538 | 33.634 | 33.749 | 33.690 | 33.985 | 0.2% |
| Midsize | 34.802 | 34.678 | 34.724 | 34.654 | 34.483 | 34.651 | 34.691 | 34.719 | 34.757 | 34.671 | 34.570 | 34.618 | 34.356 | -0.2% |
| Large | 15.286 | 15.185 | 15.215 | 15.148 | 14.998 | 15.139 | 15.181 | 15.171 | 15.188 | 15.123 | 15.047 | 15.098 | 14.864 | -0.4% |
| Two Seater | 1.699 | 1.696 | 1.697 | 1.696 | 1.692 | 1.695 | 1.696 | 1.695 | 1.695 | 1.693 | 1.691 | 1.692 | 1.687 | -0.1% |
| Conventional Light Trucks | | | | | | | | | | | | | | |
| Small Pickup | 12.478 | 12.418 | 12.451 | 12.433 | 12.355 | 12.434 | 12.461 | 12.478 | 12.500 | 12.459 | 12.388 | 12.427 | 12.294 | -0.3% |
| Large Pickup | 21.592 | 21.594 | 21.607 | 21.613 | 21.617 | 21.632 | 21.632 | 21.664 | 21.682 | 21.677 | 21.667 | 21.660 | 21.671 | 0.0% |
| Small Van | 17.713 | 17.805 | 17.765 | 17.817 | 17.948 | 17.821 | 17.786 | 17.764 | 17.731 | 17.801 | 17.884 | 17.855 | 18.052 | 0.3% |
| Large Van | 2.484 | 2.488 | 2.491 | 2.492 | 2.492 | 2.493 | 2.495 | 2.498 | 2.501 | 2.501 | 2.500 | 2.500 | 2.502 | 0.0% |
| Small Utility | 31.920 | 31.882 | 31.881 | 31.848 | 31.797 | 31.831 | 31.838 | 31.822 | 31.818 | 31.795 | 31.784 | 31.786 | 31.716 | 0.0% |
| Large Utility | 13.813 | 13.812 | 13.804 | 13.797 | 13.791 | 13.789 | 13.788 | 13.774 | 13.768 | 13.768 | 13.776 | 13.772 | 13.766 | 0.0% |
| New Vehicle Average Horsepower | | | | | | | | | | | | | | |
| Conventional Cars | | | | | | | | | | | | | | |
| Minicompact | 281.329 | 282.829 | 284.195 | 285.430 | 286.544 | 287.596 | 288.590 | 289.349 | 289.727 | 290.050 | 290.405 | 290.701 | 290.929 | 0.7% |
| Subcompact | 178.327 | 179.845 | 181.216 | 182.476 | 183.577 | 184.632 | 185.683 | 186.607 | 187.260 | 187.737 | 188.190 | 188.613 | 188.822 | 1.0% |
| Compact | 172.797 | 174.493 | 176.065 | 177.448 | 178.670 | 179.948 | 181.253 | 182.331 | 183.136 | 183.798 | 184.480 | 185.210 | 185.652 | 1.2% |
| Midsize | 220.714 | 222.755 | 224.646 | 226.378 | 227.929 | 229.438 | 230.956 | 232.207 | 233.125 | 233.849 | 234.585 | 235.342 | 235.787 | 1.1% |
| Large | 253.887 | 255.692 | 257.338 | 258.820 | 260.124 | 261.408 | 262.741 | 264.000 | 264.854 | 265.538 | 266.272 | 266.843 | 267.138 | 0.8% |
| Two Seater | 301.071 | 302.119 | 303.121 | 304.011 | 304.823 | 305.567 | 306.241 | 306.872 | 307.099 | 307.216 | 307.375 | 307.564 | 307.646 | 0.6% |
| Average New Car | 205.252 | 206.908 | 208.607 | 210.014 | 211.138 | 212.646 | 214.033 | 215.171 | 216.023 | 216.577 | 217.131 | 217.856 | 217.921 | 1.0% |
| Conventional Light Trucks | | | | | | | | | | | | | | |
| Small Pickup | 204.278 | 206.151 | 207.723 | 209.200 | 210.540 | 211.755 | 212.995 | 214.145 | 214.896 | 215.501 | 216.205 | 216.478 | 216.508 | 1.1% |
| Large Pickup | 272.224 | 274.320 | 275.853 | 277.431 | 278.768 | 279.318 | 279.829 | 280.339 | 280.326 | 280.301 | 280.254 | 280.255 | 280.245 | 0.9% |
| Small Van | 223.133 | 225.204 | 226.811 | 228.355 | 229.745 | 231.086 | 232.490 | 233.728 | 234.473 | 235.103 | 235.723 | 236.251 | 236.676 | 1.1% |
| Large Van | 270.148 | 272.418 | 274.137 | 275.883 | 277.440 | 278.756 | 280.107 | 281.023 | 280.905 | 280.746 | 280.565 | 280.440 | 280.307 | 0.9% |
| Small Utility | 222.405 | 223.082 | 223.769 | 224.472 | 225.166 | 225.860 | 226.574 | 227.192 | 227.359 | 227.428 | 227.518 | 227.559 | 227.565 | 0.8% |
| Large Utility | 291.992 | 293.930 | 295.503 | 297.110 | 298.599 | 300.009 | 301.423 | 302.837 | 303.181 | 303.129 | 303.044 | 302.995 | 302.907 | 0.9% |
| Average New Light Truck | 241.827 | 243.435 | 244.723 | 246.014 | 247.198 | 248.145 | 249.110 | 250.003 | 250.325 | 250.525 | 250.741 | 250.859 | 250.957 | 0.9% |
| New Vehicle Average Weight | | | | | | | | | | | | | | |
| Conventional Cars | | | | | | | | | | | | | | |
| Minicompact | 3673.220 | 3676.467 | 3678.593 | 3681.114 | 3683.390 | 3686.327 | 3689.163 | 3691.486 | 3688.986 | 3686.467 | 3683.800 | 3682.156 | 3680.790 | 0.2% |
| Subcompact | 2951.026 | 2952.427 | 2954.254 | 2956.227 | 2958.100 | 2960.145 | 2962.070 | 2964.140 | 2962.194 | 2960.413 | 2958.771 | 2957.435 | 2956.094 | 0.3% |
| Compact | 3013.574 | 3015.530 | 3017.355 | 3019.225 | 3020.995 | 3023.022 | 3024.944 | 3026.858 | 3024.801 | 3022.827 | 3021.021 | 3019.682 | 3018.361 | 0.3% |
| Midsize | 3517.579 | 3520.085 | 3522.511 | 3524.897 | 3527.199 | 3529.744 | 3532.217 | 3534.802 | 3532.668 | 3530.517 | 3528.490 | 3526.968 | 3525.475 | 0.3% |
| Large | 3914.451 | 3917.293 | 3920.680 | 3923.543 | 3926.162 | 3928.616 | 3931.108 | 3934.180 | 3931.849 | 3929.692 | 3927.922 | 3926.034 | 3924.142 | 0.3% |
| Two Seater | 3194.079 | 3196.545 | 3198.696 | 3200.805 | 3202.744 | 3204.870 | 3206.610 | 3208.889 | 3206.874 | 3204.874 | 3202.919 | 3201.495 | 3200.202 | 0.3% |
| Average New Car | 3323.253 | 3323.890 | 3326.686 | 3327.926 | 3327.742 | 3332.208 | 3335.002 | 3337.397 | 3335.641 | 3332.547 | 3329.452 | 3328.698 | 3323.683 | 0.2% |
| Conventional Light Trucks | | | | | | | | | | | | | | |
| Small Pickup | 3902.589 | 3907.866 | 3912.678 | 3918.323 | 3923.594 | 3929.272 | 3935.208 | 3941.029 | 3939.428 | 3938.210 | 3937.268 | 3936.924 | 3936.517 | 0.3% |
| Large Pickup | 5046.192 | 5054.021 | 5060.603 | 5068.726 | 5076.997 | 5085.232 | 5093.471 | 5101.422 | 5099.896 | 5098.469 | 5096.791 | 5096.113 | 5095.363 | 0.3% |
| Small Van | 4346.601 | 4352.079 | 4357.239 | 4363.313 | 4369.753 | 4376.037 | 4382.561 | 4388.442 | 4385.718 | 4382.808 | 4379.405 | 4376.881 | 4374.473 | 0.3% |
| Large Van | 5058.758 | 5063.922 | 5069.647 | 5077.003 | 5084.863 | 5093.280 | 5101.767 | 5109.501 | 5107.370 | 5104.478 | 5101.186 | 5098.911 | 5096.491 | 0.3% |
| Small Utility | 4123.195 | 4128.965 | 4134.639 | 4141.109 | 4147.598 | 4153.935 | 4160.266 | 4166.145 | 4163.932 | 4161.444 | 4158.828 | 4156.713 | 4154.509 | 0.3% |
| Large Utility | 5486.006 | 5491.463 | 5497.430 | 5505.098 | 5513.312 | 5521.479 | 5530.380 | 5538.772 | 5536.345 | 5533.088 | 5529.397 | 5526.693 | 5523.703 | 0.3% |
| Average New Light Truck | 4546.017 | 4552.454 | 4558.042 | 4564.994 | 4572.403 | 4579.040 | 4586.029 | 4592.795 | 4590.672 | 4588.586 | 4586.426 | 4584.417 | 4583.354 | 0.3% |
| Average Weight for the Stock | | | | | | | | | | | | | | |

**Table 49. Summary of New Light-Duty Vehicle Size Class Attributes**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Conventional Cars | 3213 | 3225 | 3236 | 3246 | 3256 | 3265 | 3274 | 3282 | 3289 | 3295 | 3301 | 3305 | 3309 | 0.2% |
| Conventional Light Trucks | 4359 | 4380 | 4399 | 4417 | 4434 | 4449 | 4465 | 4479 | 4491 | 4502 | 4511 | 4520 | 4528 | 0.5% |

**Table 49. Summary of New Light-Duty Vehicle Size Class Attributes**

1/ Conversion factor used to convert Environmental Protection Agency rated to "on road" miles per gallon.
2/ Environmental Protection Agency rated miles per gallon.
Sources: 2001 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Year Fuel Economy Reports from Auto Manufacturers, 1998; Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the U.S. Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO99 National Energy Modeling System run aeo2003.d110502c.

**Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology**
**(Trillion Btu)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cars 1/ | | | | | | | | | | | | | |
| Conventional Gasoline | 744.36 | 758.14 | 747.09 | 734.63 | 707.99 | 654.59 | 627.95 | 610.15 | 594.07 | 584.29 | 575.51 | 567.04 | 561.45 |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Methanol | | | | | | | | | | | | | |
| Flex | 0.78 | 0.62 | 0.46 | 0.26 | 0.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethanol | | | | | | | | | | | | | |
| Flex | 5.24 | 14.51 | 23.03 | 31.37 | 38.99 | 40.41 | 39.87 | 38.78 | 37.75 | 36.98 | 36.42 | 35.93 | 35.52 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas Bi-fuel | 1.43 | 2.70 | 3.86 | 5.00 | 6.06 | 6.76 | 7.00 | 6.80 | 6.61 | 6.45 | 6.33 | 6.25 | 6.18 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquefied Petroleum Gas Bi-fuel | 1.33 | 7.04 | 12.33 | 17.55 | 22.43 | 25.31 | 26.17 | 25.42 | 24.73 | 24.14 | 23.72 | 23.42 | 23.15 |
| Electric | 0.41 | 0.59 | 0.76 | 0.92 | 1.04 | 1.05 | 0.92 | 0.82 | 0.73 | 0.66 | 0.62 | 0.61 | 0.60 |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Fleet Cars | 753.54 | 783.61 | 787.53 | 789.73 | 776.64 | 728.12 | 701.90 | 681.97 | 663.88 | 652.52 | 642.61 | 633.24 | 626.91 |
| Light Trucks 1/ | | | | | | | | | | | | | |
| Conventional Gasoline | 849.55 | 812.79 | 772.80 | 731.74 | 686.27 | 628.25 | 629.99 | 639.55 | 646.99 | 654.78 | 669.38 | 680.98 | 688.20 |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Methanol | | | | | | | | | | | | | |
| Flex | 0.02 | 0.02 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethanol | | | | | | | | | | | | | |
| Flex | 1.25 | 14.38 | 27.04 | 40.33 | 53.69 | 66.38 | 70.11 | 71.07 | 71.92 | 72.74 | 74.21 | 75.52 | 76.36 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas Bi-fuel | 8.39 | 11.82 | 15.10 | 18.60 | 22.08 | 25.30 | 25.32 | 25.68 | 25.96 | 26.25 | 26.85 | 27.34 | 27.68 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquefied Petroleum Gas Bi-fuel | 14.02 | 28.02 | 41.50 | 55.65 | 69.89 | 83.39 | 85.64 | 86.88 | 87.85 | 88.84 | 90.80 | 92.42 | 93.46 |
| Electric | 0.29 | 0.65 | 1.00 | 1.36 | 1.68 | 1.95 | 1.97 | 1.84 | 1.72 | 1.62 | 1.58 | 1.57 | 1.58 |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Fleet Light Trucks | 873.52 | 867.69 | 857.45 | 847.69 | 833.60 | 805.26 | 813.03 | 825.02 | 834.44 | 844.24 | 862.82 | 877.83 | 887.28 |
| Total Fleet Vehicles | 1627.06 | 1651.30 | 1644.98 | 1637.42 | 1610.24 | 1533.38 | 1514.94 | 1506.98 | 1498.32 | 1496.76 | 1505.43 | 1511.07 | 1514.19 |
| Commercial Light Trucks 2/ | 634.64 | 603.87 | 596.29 | 613.35 | 631.46 | 645.00 | 663.16 | 685.21 | 707.27 | 730.41 | 755.71 | 779.09 | 801.10 |

**Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology**
**(Trillion Btu)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cars 1/ | | | | | | | | | | | | | | |
| Conventional Gasoline | 559.51 | 560.51 | 563.52 | 567.21 | 569.29 | 567.10 | 563.58 | 558.77 | 554.72 | 552.19 | 548.46 | 547.73 | 548.06 | -1.3% |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Methanol | | | | | | | | | | | | | | |
| Flex | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -28.2% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Ethanol | | | | | | | | | | | | | | |
| Flex | 35.32 | 35.34 | 35.49 | 35.67 | 35.78 | 35.69 | 35.52 | 35.23 | 34.98 | 34.80 | 34.59 | 34.52 | 34.49 | 3.7% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas Bi-fuel | 6.14 | 6.14 | 6.17 | 6.20 | 6.22 | 6.22 | 6.22 | 6.18 | 6.15 | 6.13 | 6.10 | 6.09 | 6.08 | 3.4% |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Liquefied Petroleum Gas Bi-fuel | 22.97 | 22.96 | 23.05 | 23.16 | 23.22 | 23.21 | 23.15 | 23.01 | 22.86 | 22.75 | 22.63 | 22.60 | 22.56 | 5.0% |
| Electric | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.62 | 0.62 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.1% |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Fleet Cars | 624.54 | 625.55 | 628.84 | 632.85 | 635.13 | 632.83 | 629.08 | 623.81 | 619.34 | 616.48 | 612.40 | 611.55 | 611.80 | -1.0% |
| Light Trucks 1/ | | | | | | | | | | | | | | |
| Conventional Gasoline | 694.57 | 702.75 | 709.71 | 715.98 | 721.44 | 724.51 | 725.44 | 722.87 | 716.73 | 711.43 | 706.47 | 702.91 | 699.29 | -0.6% |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Methanol | | | | | | | | | | | | | | |
| Flex | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -14.4% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Ethanol | | | | | | | | | | | | | | |
| Flex | 77.03 | 77.90 | 78.66 | 79.28 | 79.80 | 80.09 | 80.21 | 79.93 | 79.25 | 78.64 | 78.08 | 77.70 | 77.29 | 7.3% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas Bi-fuel | 27.98 | 28.37 | 28.71 | 29.01 | 29.28 | 29.46 | 29.55 | 29.50 | 29.30 | 29.13 | 28.97 | 28.86 | 28.75 | 3.8% |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Liquefied Petroleum Gas Bi-fuel | 94.36 | 95.52 | 96.48 | 97.32 | 98.06 | 98.50 | 98.68 | 98.38 | 97.59 | 96.92 | 96.30 | 95.87 | 95.41 | 5.2% |
| Electric | 1.61 | 1.65 | 1.68 | 1.71 | 1.74 | 1.76 | 1.78 | 1.79 | 1.78 | 1.78 | 1.78 | 1.78 | 1.78 | 4.3% |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Fleet Light Trucks | 895.56 | 906.18 | 915.24 | 923.30 | 930.31 | 934.33 | 935.65 | 932.47 | 924.65 | 917.90 | 911.60 | 907.12 | 902.51 | 0.2% |
| Total Fleet Vehicles | 1520.10 | 1531.73 | 1544.08 | 1556.15 | 1565.44 | 1567.16 | 1564.73 | 1556.28 | 1543.98 | 1534.38 | 1524.00 | 1518.67 | 1514.32 | -0.4% |
| Commercial Light Trucks 2/ | 820.57 | 839.86 | 855.41 | 868.82 | 883.25 | 898.44 | 915.83 | 930.57 | 944.72 | 961.86 | 979.23 | 999.15 | 1015.66 | 2.2% |

**Table 50. Transportation Fleet Car and Truck Fuel Consumption by Type and Technology**
**(Trillion Btu)**

1/ Includes all fleets of 10 or more.
2/ Commercial trucks from 8,500 to 10,000 pounds.
ICE = Internal combustion engine.
N/A = Not Applicable.
Sources: 2001 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (April 23, 1997); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 51. Transportation Fleet Car and Truck Sales by Type and Technology**
**(Thousands)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cars 1/ | | | | | | | | | | | | | |
| Conventional Gasoline | 1587.37 | 1511.09 | 1433.83 | 1423.35 | 1381.93 | 1291.35 | 1283.60 | 1279.53 | 1239.85 | 1217.82 | 1227.04 | 1233.90 | 1235.61 |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Methanol | | | | | | | | | | | | | |
| Flex | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethanol | | | | | | | | | | | | | |
| Flex | 79.76 | 84.78 | 80.44 | 79.86 | 77.53 | 72.45 | 72.02 | 71.79 | 69.56 | 68.33 | 68.84 | 69.23 | 69.32 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas Bi-fuel | 11.00 | 12.29 | 11.66 | 11.58 | 11.24 | 10.50 | 10.44 | 10.41 | 10.09 | 9.91 | 9.98 | 10.04 | 10.05 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquefied Petroleum Gas Bi-fuel | 42.64 | 47.41 | 44.99 | 44.66 | 43.36 | 40.51 | 40.27 | 40.14 | 38.90 | 38.21 | 38.50 | 38.71 | 38.77 |
| Electric | 2.16 | 2.51 | 2.38 | 2.37 | 2.30 | 2.15 | 2.14 | 2.13 | 2.06 | 2.03 | 2.04 | 2.05 | 2.06 |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Fleet Cars | 1722.94 | 1658.08 | 1573.31 | 1561.81 | 1516.36 | 1416.97 | 1408.47 | 1404.00 | 1360.45 | 1336.28 | 1346.40 | 1353.93 | 1355.81 |
| Light Trucks 1/ | | | | | | | | | | | | | |
| Conventional Gasoline | 823.96 | 783.56 | 762.91 | 789.91 | 797.92 | 774.17 | 797.70 | 823.24 | 825.07 | 837.62 | 871.88 | 881.60 | 886.98 |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Methanol | | | | | | | | | | | | | |
| Flex | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethanol | | | | | | | | | | | | | |
| Flex | 72.10 | 82.41 | 80.24 | 83.08 | 83.92 | 81.42 | 83.90 | 86.58 | 86.78 | 88.09 | 91.70 | 92.72 | 93.29 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas Bi-fuel | 26.71 | 30.30 | 29.50 | 30.55 | 30.86 | 29.94 | 30.85 | 31.84 | 31.91 | 32.39 | 33.72 | 34.09 | 34.30 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquefied Petroleum Gas Bi-fuel | 88.69 | 100.92 | 98.26 | 101.74 | 102.77 | 99.71 | 102.74 | 106.03 | 106.27 | 107.88 | 112.30 | 113.55 | 114.24 |
| Electric | 2.74 | 3.27 | 3.19 | 3.30 | 3.33 | 3.24 | 3.33 | 3.44 | 3.45 | 3.50 | 3.64 | 3.68 | 3.71 |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Fleet Light Trucks | 1014.21 | 1000.47 | 974.10 | 1008.58 | 1018.80 | 988.48 | 1018.53 | 1051.14 | 1053.47 | 1069.49 | 1113.24 | 1125.65 | 1132.52 |
| Total Fleet Vehicles | 2737.15 | 2658.55 | 2547.42 | 2570.40 | 2535.17 | 2405.46 | 2426.99 | 2455.13 | 2413.92 | 2405.77 | 2459.64 | 2479.58 | 2488.33 |
| Commercial Light Trucks 2/ | 449.58 | 455.72 | 455.46 | 479.68 | 493.35 | 487.74 | 512.37 | 539.32 | 551.44 | 571.25 | 606.80 | 626.14 | 642.85 |

**Table 51. Transportation Fleet Car and Truck Sales by Type and Technology**
**(Thousands)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cars 1/ | | | | | | | | | | | | | | |
| Conventional Gasoline | 1248.18 | 1280.54 | 1305.36 | 1311.60 | 1308.00 | 1298.35 | 1307.74 | 1299.97 | 1282.88 | 1287.87 | 1285.02 | 1304.13 | 1295.43 | -0.6% |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Methanol | | | | | | | | | | | | | | |
| Flex | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.6% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Ethanol | | | | | | | | | | | | | | |
| Flex | 70.03 | 71.84 | 73.24 | 73.59 | 73.39 | 72.84 | 73.37 | 72.93 | 71.98 | 72.26 | 72.10 | 73.17 | 72.68 | -0.6% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas Bi-fuel | 10.15 | 10.42 | 10.62 | 10.67 | 10.64 | 10.56 | 10.64 | 10.57 | 10.44 | 10.48 | 10.45 | 10.61 | 10.54 | -0.6% |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Liquefied Petroleum Gas Bi-fuel | 39.16 | 40.18 | 40.95 | 41.15 | 41.04 | 40.73 | 41.03 | 40.79 | 40.25 | 40.41 | 40.32 | 40.92 | 40.64 | -0.6% |
| Electric | 2.08 | 2.13 | 2.17 | 2.18 | 2.18 | 2.16 | 2.18 | 2.16 | 2.13 | 2.14 | 2.14 | 2.17 | 2.15 | -0.6% |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Fleet Cars | 1369.60 | 1405.10 | 1432.35 | 1439.19 | 1435.24 | 1424.65 | 1434.96 | 1426.42 | 1407.67 | 1413.15 | 1410.02 | 1430.99 | 1421.44 | -0.6% |
| Light Trucks 1/ | | | | | | | | | | | | | | |
| Conventional Gasoline | 899.59 | 926.05 | 946.74 | 953.61 | 952.99 | 947.65 | 955.96 | 951.50 | 939.00 | 942.65 | 940.56 | 954.55 | 948.18 | 0.8% |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Methanol | | | | | | | | | | | | | | |
| Flex | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.8% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Ethanol | | | | | | | | | | | | | | |
| Flex | 94.61 | 97.40 | 99.57 | 100.29 | 100.23 | 99.67 | 100.54 | 100.07 | 98.76 | 99.14 | 98.92 | 100.39 | 99.72 | 0.8% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas Bi-fuel | 34.79 | 35.81 | 36.61 | 36.88 | 36.86 | 36.65 | 36.97 | 36.80 | 36.31 | 36.46 | 36.37 | 36.92 | 36.67 | 0.8% |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Liquefied Petroleum Gas Bi-fuel | 115.87 | 119.28 | 121.94 | 122.83 | 122.75 | 122.06 | 123.13 | 122.55 | 120.94 | 121.41 | 121.14 | 122.95 | 122.13 | 0.8% |
| Electric | 3.76 | 3.87 | 3.96 | 3.99 | 3.98 | 3.96 | 4.00 | 3.98 | 3.92 | 3.94 | 3.93 | 3.99 | 3.96 | 0.8% |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Fleet Light Trucks | 1148.62 | 1182.41 | 1208.83 | 1217.60 | 1216.81 | 1209.99 | 1220.60 | 1214.91 | 1198.94 | 1203.60 | 1200.93 | 1218.80 | 1210.67 | 0.8% |
| Total Fleet Vehicles | 2518.23 | 2587.51 | 2641.17 | 2656.79 | 2652.05 | 2634.64 | 2655.56 | 2641.33 | 2606.61 | 2616.75 | 2610.95 | 2649.79 | 2632.11 | 0.0% |
| Commercial Light Trucks 2/ | 665.28 | 698.72 | 728.69 | 748.61 | 762.88 | 773.41 | 795.26 | 806.65 | 811.50 | 830.21 | 843.93 | 872.32 | 882.28 | 2.8% |

**Table 51. Transportation Fleet Car and Truck Sales by Type and Technology**
**(Thousands)**

1/ Includes all fleets of 10 or more.
2/ Commercial trucks from 8,500 to 10,000 pounds.
ICE = Internal combustion engine.
N/A = Not Applicable.
Sources: 2001 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Commercial Truck Model, Final Report, Subtask 19-2, prepared for the Energy Information Administration (EIA) (April 23, 1997); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 52. Transportation Fleet Car and Truck Stock by Type and Technolgy**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cars 1/ | | | | | | | | | | | | | |
| Conventional Gasoline | 6099.66 | 6236.90 | 6197.55 | 6099.58 | 5894.08 | 5464.93 | 5270.41 | 5132.44 | 4996.56 | 4919.82 | 4864.27 | 4822.52 | 4817.95 |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Methanol | | | | | | | | | | | | | |
| Flex | 6.22 | 4.96 | 3.72 | 2.42 | 1.11 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethanol | | | | | | | | | | | | | |
| Flex | 40.94 | 117.57 | 189.40 | 258.65 | 322.41 | 333.79 | 331.11 | 322.73 | 314.19 | 308.04 | 304.35 | 301.84 | 300.82 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas Bi-fuel | 11.46 | 21.46 | 30.70 | 39.74 | 48.13 | 53.79 | 56.05 | 54.60 | 53.21 | 51.96 | 51.18 | 50.78 | 50.51 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquefied Petroleum Gas Bi-fuel | 10.70 | 55.90 | 98.27 | 139.74 | 178.76 | 201.73 | 209.94 | 204.55 | 199.28 | 194.75 | 191.94 | 190.41 | 189.46 |
| Electric | 3.98 | 5.80 | 7.51 | 9.19 | 10.70 | 11.28 | 10.65 | 10.39 | 10.11 | 9.89 | 9.77 | 9.69 | 9.64 |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Fleet Cars | 6172.97 | 6442.59 | 6527.15 | 6549.32 | 6455.19 | 6065.58 | 5878.17 | 5724.72 | 5573.36 | 5484.47 | 5421.51 | 5375.24 | 5368.38 |
| Light Trucks 1/ | | | | | | | | | | | | | |
| Conventional Gasoline | 5285.22 | 5060.74 | 4835.35 | 4550.96 | 4244.67 | 3875.90 | 3889.31 | 3945.38 | 3982.94 | 4024.00 | 4116.38 | 4200.05 | 4265.04 |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Methanol | | | | | | | | | | | | | |
| Flex | 0.16 | 0.13 | 0.10 | 0.07 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethanol | | | | | | | | | | | | | |
| Flex | 7.57 | 88.71 | 167.43 | 248.52 | 329.40 | 406.09 | 429.05 | 434.67 | 439.14 | 443.57 | 452.99 | 462.35 | 469.72 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas Bi-fuel | 54.94 | 75.22 | 94.83 | 114.95 | 134.89 | 153.55 | 153.86 | 156.07 | 157.55 | 159.12 | 162.76 | 166.08 | 168.64 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquefied Petroleum Gas Bi-fuel | 87.42 | 171.83 | 253.66 | 337.37 | 421.16 | 500.70 | 514.71 | 522.01 | 527.02 | 532.29 | 544.31 | 555.44 | 564.05 |
| Electric | 2.39 | 5.24 | 8.01 | 10.86 | 13.70 | 16.39 | 17.48 | 17.69 | 17.88 | 18.06 | 18.43 | 18.81 | 19.12 |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Fleet Light Trucks | 5437.71 | 5401.87 | 5359.38 | 5262.73 | 5143.86 | 4952.64 | 5004.40 | 5075.83 | 5124.53 | 5177.05 | 5294.86 | 5402.73 | 5486.58 |
| Total Fleet Vehicles | 11610.67 | 11844.46 | 11886.53 | 11812.05 | 11599.05 | 11018.22 | 10882.57 | 10800.55 | 10697.89 | 10661.52 | 10716.37 | 10777.97 | 10854.96 |
| Commercial Light Trucks 2/ | 5828.92 | 5609.92 | 5539.06 | 5588.33 | 5707.87 | 5850.95 | 6027.97 | 6228.04 | 6427.73 | 6629.53 | 6845.57 | 7058.09 | 7264.85 |

**Table 52. Transportation Fleet Car and Truck Stock by Type and Technolgy**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cars 1/ | | | | | | | | | | | | | | |
| Conventional Gasoline | 4845.97 | 4898.95 | 4969.85 | 5043.47 | 5100.13 | 5117.18 | 5120.61 | 5109.99 | 5085.33 | 5074.02 | 5052.88 | 5058.09 | 5069.27 | -0.9% |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Methanol | | | | | | | | | | | | | | |
| Flex | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -27.9% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Ethanol | | | | | | | | | | | | | | |
| Flex | 301.83 | 304.88 | 309.04 | 313.26 | 316.73 | 318.36 | 319.16 | 318.78 | 317.35 | 316.53 | 315.45 | 315.63 | 315.92 | 4.2% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas Bi-fuel | 50.50 | 50.91 | 51.56 | 52.20 | 52.75 | 53.11 | 53.37 | 53.40 | 53.19 | 53.04 | 52.88 | 52.91 | 52.88 | 3.8% |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Liquefied Petroleum Gas Bi-fuel | 189.55 | 191.18 | 193.64 | 196.08 | 198.17 | 199.47 | 200.37 | 200.39 | 199.60 | 199.04 | 198.44 | 198.53 | 198.49 | 5.4% |
| Electric | 9.66 | 9.75 | 9.88 | 10.00 | 10.11 | 10.18 | 10.22 | 10.21 | 10.17 | 10.14 | 10.11 | 10.11 | 10.11 | 2.3% |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Fleet Cars | 5397.51 | 5455.67 | 5533.97 | 5615.03 | 5677.90 | 5698.31 | 5703.73 | 5692.76 | 5665.65 | 5652.77 | 5629.77 | 5635.27 | 5646.67 | -0.5% |
| Light Trucks 1/ | | | | | | | | | | | | | | |
| Conventional Gasoline | 4337.20 | 4423.54 | 4500.41 | 4571.91 | 4636.02 | 4682.24 | 4712.82 | 4719.12 | 4705.32 | 4695.16 | 4687.24 | 4687.44 | 4684.52 | -0.3% |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Methanol | | | | | | | | | | | | | | |
| Flex | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -14.3% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Ethanol | | | | | | | | | | | | | | |
| Flex | 477.47 | 486.95 | 495.74 | 503.51 | 510.47 | 515.72 | 519.53 | 520.61 | 519.28 | 518.18 | 517.27 | 517.41 | 516.97 | 7.6% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas Bi-fuel | 171.50 | 174.93 | 177.97 | 180.78 | 183.32 | 185.20 | 186.46 | 186.73 | 186.20 | 185.80 | 185.50 | 185.49 | 185.35 | 3.8% |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Liquefied Petroleum Gas Bi-fuel | 573.57 | 585.05 | 595.26 | 604.65 | 613.14 | 619.43 | 623.69 | 624.66 | 622.92 | 621.58 | 620.56 | 620.57 | 620.09 | 5.5% |
| Electric | 19.43 | 19.81 | 20.18 | 20.49 | 20.77 | 20.99 | 21.15 | 21.20 | 21.16 | 21.11 | 21.07 | 21.08 | 21.06 | 6.0% |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Fleet Light Trucks | 5579.16 | 5690.29 | 5789.57 | 5881.34 | 5963.72 | 6023.58 | 6063.66 | 6072.33 | 6054.87 | 6041.84 | 6031.64 | 6031.99 | 6028.00 | 0.5% |
| Total Fleet Vehicles | 10976.67 | 11145.97 | 11323.53 | 11496.37 | 11641.62 | 11721.89 | 11767.39 | 11765.09 | 11720.51 | 11694.61 | 11661.40 | 11667.26 | 11674.67 | -0.1% |
| Commercial Light Trucks 2/ | 7474.65 | 7702.49 | 7948.35 | 8204.37 | 8466.06 | 8729.04 | 9003.11 | 9274.95 | 9535.43 | 9796.32 | 10051.13 | 10313.42 | 10564.10 | 2.7% |

**Table 52. Transportation Fleet Car and Truck Stock by Type and Technolgy**

1/ Includes all fleets of 10 or more.
2/ Commercial trucks from 8,500 to 10,000 pounds.
ICE = Internal combustion engine.
N/A = Not applicable.
Sources: 2001 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); United States Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Comercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); Energy Information Administration (EIA), Describing Current and Potential Markets for Alternative-Fuel Vehicles, DOE/EIA-0604(96) (Washington, DC, March 1996); EIA, Alternatives to Traditional Transportation Fuels 1998, http://www.eia.doe.gov/cneaf/alt_trans98/table1.html; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Truck and Technology**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cars 1/ | | | | | | | | | | | | | |
| Conventional Gasoline | 122.26 | 125.98 | 125.81 | 124.33 | 120.61 | 112.09 | 107.86 | 104.92 | 102.02 | 100.40 | 99.20 | 98.25 | 98.11 |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Methanol | | | | | | | | | | | | | |
| Flex | 0.12 | 0.10 | 0.08 | 0.05 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethanol | | | | | | | | | | | | | |
| Flex | 0.82 | 2.37 | 3.84 | 5.27 | 6.60 | 6.85 | 6.78 | 6.60 | 6.41 | 6.29 | 6.21 | 6.15 | 6.13 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas Bi-fuel | 0.23 | 0.43 | 0.62 | 0.81 | 0.98 | 1.10 | 1.15 | 1.12 | 1.09 | 1.06 | 1.04 | 1.03 | 1.03 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquefied Petroleum Gas Bi-fuel | 0.21 | 1.13 | 1.99 | 2.85 | 3.66 | 4.14 | 4.30 | 4.18 | 4.07 | 3.97 | 3.91 | 3.88 | 3.86 |
| Electric | 0.08 | 0.12 | 0.15 | 0.19 | 0.22 | 0.23 | 0.22 | 0.21 | 0.21 | 0.20 | 0.20 | 0.20 | 0.20 |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Fleet Cars | 123.73 | 130.14 | 132.50 | 133.50 | 132.09 | 124.41 | 120.30 | 117.03 | 113.79 | 111.92 | 110.56 | 109.51 | 109.32 |
| Light Trucks 1/ | | | | | | | | | | | | | |
| Conventional Gasoline | 105.94 | 102.23 | 98.16 | 92.76 | 86.86 | 79.50 | 79.60 | 80.66 | 81.32 | 82.12 | 83.95 | 85.57 | 86.85 |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Methanol | | | | | | | | | | | | | |
| Flex | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ethanol | | | | | | | | | | | | | |
| Flex | 0.15 | 1.79 | 3.40 | 5.07 | 6.74 | 8.33 | 8.78 | 8.89 | 8.97 | 9.05 | 9.24 | 9.42 | 9.57 |
| Neat | 0.15 | 1.79 | 3.40 | 5.07 | 6.74 | 8.33 | 8.78 | 8.89 | 8.97 | 9.05 | 9.24 | 9.42 | 9.57 |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas Bi-fuel | 1.10 | 1.52 | 1.93 | 2.34 | 2.76 | 3.15 | 3.15 | 3.19 | 3.22 | 3.25 | 3.32 | 3.38 | 3.43 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Liquefied Petroleum Gas Bi-fuel | 1.75 | 3.47 | 5.15 | 6.88 | 8.62 | 10.27 | 10.53 | 10.67 | 10.76 | 10.86 | 11.10 | 11.32 | 11.49 |
| Electric | 0.05 | 0.11 | 0.16 | 0.22 | 0.28 | 0.34 | 0.36 | 0.36 | 0.37 | 0.37 | 0.38 | 0.38 | 0.39 |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Fleet Light Truck | 109.15 | 110.91 | 112.19 | 112.34 | 112.00 | 109.92 | 111.20 | 112.65 | 113.59 | 114.70 | 117.22 | 119.49 | 121.29 |
| Total Fleet Vehicles | 232.88 | 241.05 | 244.70 | 245.84 | 244.09 | 234.33 | 231.49 | 229.69 | 227.39 | 226.62 | 227.78 | 229.00 | 230.61 |
| Commercial Light Trucks 2/ | 69.10 | 66.20 | 65.68 | 67.79 | 69.93 | 71.52 | 73.56 | 75.96 | 78.28 | 80.78 | 83.58 | 86.22 | 88.80 |

**Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Truck and Technology**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cars 1/ | | | | | | | | | | | | | | |
| Conventional Gasoline | 98.67 | 99.73 | 101.15 | 102.66 | 103.81 | 104.12 | 104.14 | 103.89 | 103.37 | 103.14 | 102.70 | 102.81 | 103.05 | -0.8% |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Methanol | | | | | | | | | | | | | | |
| Flex | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -27.9% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Ethanol | | | | | | | | | | | | | | |
| Flex | 6.15 | 6.21 | 6.29 | 6.38 | 6.45 | 6.48 | 6.49 | 6.48 | 6.45 | 6.43 | 6.41 | 6.42 | 6.42 | 4.2% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas Bi-fuel | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.08 | 1.09 | 1.09 | 1.08 | 1.08 | 1.07 | 1.08 | 1.08 | 3.9% |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Liquefied Petroleum Gas Bi-fuel | 3.86 | 3.89 | 3.94 | 3.99 | 4.03 | 4.06 | 4.07 | 4.07 | 4.06 | 4.05 | 4.03 | 4.04 | 4.04 | 5.4% |
| Electric | 0.20 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 2.4% |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Fleet Cars | 109.90 | 111.06 | 112.63 | 114.29 | 115.57 | 115.94 | 116.00 | 115.73 | 115.16 | 114.90 | 114.42 | 114.54 | 114.79 | -0.5% |
| Light Trucks 1/ | | | | | | | | | | | | | | |
| Conventional Gasoline | 88.31 | 90.05 | 91.60 | 93.06 | 94.36 | 95.27 | 95.84 | 95.94 | 95.64 | 95.44 | 95.27 | 95.27 | 95.23 | -0.3% |
| Distillate | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Methanol | | | | | | | | | | | | | | |
| Flex | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -14.3% |
| Neat | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Ethanol | | | | | | | | | | | | | | |
| Flex | 9.72 | 9.91 | 10.09 | 10.25 | 10.39 | 10.49 | 10.57 | 10.58 | 10.56 | 10.53 | 10.51 | 10.52 | 10.51 | 7.6% |
| Neat | 9.72 | 9.91 | 10.09 | 10.25 | 10.39 | 10.49 | 10.57 | 10.58 | 10.56 | 10.53 | 10.51 | 10.52 | 10.51 | 7.6% |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compressed Natural Gas Bi-fuel | 3.49 | 3.56 | 3.62 | 3.68 | 3.73 | 3.77 | 3.79 | 3.80 | 3.78 | 3.78 | 3.77 | 3.77 | 3.77 | 3.9% |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Liquefied Petroleum Gas Bi-fuel | 11.68 | 11.91 | 12.12 | 12.31 | 12.48 | 12.60 | 12.68 | 12.70 | 12.66 | 12.63 | 12.61 | 12.61 | 12.61 | 5.5% |
| Electric | 0.40 | 0.40 | 0.41 | 0.42 | 0.42 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 6.0% |
| Electric-Diesel Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electric-Gasoline Hybrid | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Methanol | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Hydrogen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Fleet Light Truck | 123.32 | 125.75 | 127.93 | 129.96 | 131.78 | 133.05 | 133.88 | 134.04 | 133.63 | 133.35 | 133.11 | 133.12 | 133.05 | 0.8% |
| Total Fleet Vehicles | 233.22 | 236.81 | 240.56 | 244.26 | 247.35 | 248.99 | 249.88 | 249.77 | 248.80 | 248.25 | 247.53 | 247.65 | 247.85 | 0.1% |
| Commercial Light Trucks 2/ | 91.20 | 93.66 | 95.78 | 97.72 | 99.84 | 102.07 | 104.59 | 106.83 | 109.05 | 111.64 | 114.28 | 117.24 | 119.80 | 2.5% |

**Table 53. Transportation Fleet Car and Truck Vehicle Miles Traveled by Truck and Technology**

1/ Includes all fleets of 10 or more.
2/ Commercial trucks from 8,500 to 10,000 pounds.
ICE = Internal combustion engine.
N/A = Not applicable.
Sources: 2001 derived using: Oak Ridge National Laboratory, "Fleet Vehicles in the United States: Composition, Operating Characteristics, and Fueling Practices," prepared for the Department of Energy, Office of Transportation Technologies, and Office of Policy, Planning, and Analysis (Oak Ridge, TN, March 1992); Bobit Publishing Company, Fleet Fact Book, various issues (Redondo Beach, California); Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Development of the Light Comercial Truck Model, Final Report, Subtask 19-2, (April 23, 1997); and Energy Information Administration (EIA), AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 54. Air Travel Energy Use**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fuel Cost (1987 dollars per million Btu) | 5.1 | 4.4 | 4.2 | 4.5 | 4.1 | 4.0 | 3.9 | 3.9 | 4.0 | 4.0 | 4.0 | 4.1 | 4.1 |
| Macro Variables (1996 dollars) | | | | | | | | | | | | | |
| Gross Domestic Product | 9191.4 | 9214.5 | 9439.7 | 9743.3 | 10074.5 | 10361.2 | 10666.6 | 11017.3 | 11407.9 | 11810.3 | 12258.4 | 12671.3 | 13081.8 |
| Disposable Income | 6630.3 | 6748.0 | 7046.8 | 7160.7 | 7248.8 | 7420.8 | 7625.9 | 7848.1 | 8094.0 | 8349.8 | 8637.2 | 8905.1 | 9181.4 |
| Real Merchandise Exports | 834.7 | 785.2 | 762.7 | 823.6 | 888.4 | 938.5 | 1018.7 | 1088.1 | 1171.9 | 1269.8 | 1372.8 | 1481.8 | 1595.2 |
| Yield (ticket price, 1996 dollars) 1/ | 13.5 | 12.2 | 13.1 | 13.1 | 12.7 | 12.5 | 12.3 | 12.1 | 12.0 | 11.8 | 11.9 | 11.9 | 11.8 |
| Travel Demand (billion miles) | | | | | | | | | | | | | |
| Revenue Passenger Miles Domestic | 509.4 | 481.4 | 489.6 | 478.7 | 479.2 | 494.2 | 511.0 | 528.7 | 548.9 | 569.8 | 587.6 | 605.7 | 625.0 |
| Personal | 278.7 | 248.9 | 272.1 | 260.7 | 259.9 | 268.1 | 277.6 | 287.2 | 298.2 | 309.7 | 319.3 | 329.1 | 339.8 |
| Business | 230.8 | 232.5 | 217.6 | 218.0 | 219.2 | 226.1 | 233.4 | 241.6 | 250.7 | 260.1 | 268.2 | 276.6 | 285.2 |
| Load Factor, Domestic 2/ | 0.71 | 0.70 | 0.70 | 0.70 | 0.71 | 0.71 | 0.71 | 0.71 | 0.72 | 0.72 | 0.72 | 0.73 | 0.73 |
| Revenue Passenger Miles, International | 190.3 | 176.5 | 192.1 | 190.6 | 191.2 | 197.4 | 204.3 | 211.8 | 220.1 | 228.7 | 236.1 | 243.7 | 251.8 |
| Load Factor, International 2/ | 0.76 | 0.74 | 0.76 | 0.76 | 0.76 | 0.76 | 0.76 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 |
| Revenue Ton Miles, Freight (billion) | 19.9 | 18.0 | 13.6 | 14.4 | 14.6 | 15.6 | 17.1 | 18.3 | 19.9 | 21.7 | 23.7 | 25.7 | 27.9 |
| Seat Miles Demanded (billion) | 1167.8 | 1108.5 | 1085.7 | 1073.4 | 1074.0 | 1110.1 | 1154.9 | 1199.0 | 1249.8 | 1305.3 | 1355.4 | 1407.7 | 1462.5 |
| Narrow Body Aircraft | 604.1 | 567.7 | 550.5 | 538.8 | 533.7 | 546.2 | 562.5 | 578.2 | 596.6 | 616.9 | 634.1 | 652.0 | 670.6 |
| Wide Body Aircraft | 563.7 | 540.8 | 535.2 | 534.6 | 540.2 | 564.0 | 592.4 | 620.9 | 653.2 | 688.4 | 721.2 | 755.7 | 791.8 |
| Aircraft Sales | | | | | | | | | | | | | |
| Narrow Body Aircraft | 276.6 | 235.1 | 199.8 | 169.8 | 144.4 | 122.7 | 104.3 | 88.7 | 132.9 | 304.1 | 280.7 | 289.1 | 299.2 |
| Wide Body Aircraft | 77.8 | 66.1 | 56.2 | 47.8 | 40.6 | 34.5 | 22.2 | 91.5 | 101.4 | 109.0 | 104.9 | 109.5 | 114.4 |
| Aircraft Stock | | | | | | | | | | | | | |
| Narrow Body Aircraft | 5016.5 | 5136.0 | 5216.5 | 5264.4 | 5285.5 | 5284.1 | 5264.1 | 5228.0 | 5235.5 | 5412.9 | 5564.6 | 5721.7 | 5884.8 |
| Wide Body Aircraft | 1167.2 | 1215.4 | 1251.6 | 1277.2 | 1293.6 | 1302.0 | 1296.4 | 1358.6 | 1429.3 | 1506.4 | 1578.3 | 1653.6 | 1732.8 |
| Advanced Technology Penetration | | | | | | | | | | | | | |
| Ultra-high Bypass | 0.07 | 0.03 | 0.04 | 0.15 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| Propfan | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Thermodynamics | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hybrid Laminar Flow | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Advanced Aerodynamics | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Weight Reducing Materials | 0.00 | 0.01 | 0.02 | 0.04 | 0.08 | 0.14 | 0.25 | 0.40 | 0.57 | 0.73 | 0.85 | 0.92 | 0.96 |
| New Aircraft Efficiency 3/ | | | | | | | | | | | | | |
| Narrow Body Aircraft | 49.7 | 50.1 | 50.5 | 50.8 | 51.1 | 51.4 | 51.7 | 52.0 | 52.3 | 52.6 | 53.1 | 53.5 | 53.9 |
| Wide Body Aircraft | 59.9 | 60.3 | 60.6 | 60.9 | 61.1 | 61.3 | 61.6 | 61.7 | 62.1 | 62.5 | 62.9 | 63.2 | 63.6 |
| Average Aircraft | 51.6 | 52.0 | 52.4 | 52.7 | 53.0 | 53.3 | 53.2 | 56.6 | 56.2 | 54.9 | 55.4 | 55.8 | 56.3 |
| Aircraft Stock Efficiency 3/ | | | | | | | | | | | | | |
| Narrow Body Aircraft | 46.6 | 46.9 | 47.3 | 47.6 | 47.9 | 48.1 | 48.4 | 48.7 | 49.0 | 49.4 | 49.7 | 50.1 | 50.5 |
| Wide Body Aircraft | 56.2 | 56.5 | 56.8 | 57.0 | 57.2 | 57.4 | 57.6 | 57.9 | 58.3 | 58.7 | 59.0 | 59.4 | 59.7 |
| Average Aircraft | 50.8 | 51.2 | 51.5 | 51.8 | 52.2 | 52.5 | 52.7 | 53.1 | 53.4 | 53.9 | 54.3 | 54.7 | 55.1 |
| Fuel Consumption (trillion Btu) | | | | | | | | | | | | | |
| Commercial | | | | | | | | | | | | | |
| Jet Fuel | 3103.3 | 2924.3 | 2844.8 | 2794.7 | 2779.7 | 2857.1 | 2956.7 | 3049.7 | 3156.9 | 3271.1 | 3371.2 | 3475.2 | 3583.3 |
| Aviation Gasoline | 42.6 | 42.5 | 42.4 | 42.3 | 42.3 | 42.3 | 42.2 | 42.2 | 42.2 | 42.2 | 42.1 | 42.1 | 42.1 |
| Military | | | | | | | | | | | | | |
| Jet Fuel | 476.7 | 501.7 | 518.2 | 552.2 | 560.0 | 555.9 | 557.1 | 557.2 | 558.5 | 560.1 | 561.6 | 562.9 | 567.7 |

**Table 54. Air Travel Energy Use**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fuel Cost (1987 dollars per million Btu) | 4.2 | 4.2 | 4.3 | 4.3 | 4.4 | 4.4 | 4.5 | 4.5 | 4.6 | 4.7 | 4.7 | 4.7 | 4.8 | 0.3% |
| Macro Variables (1996 dollars) | | | | | | | | | | | | | | |
| Gross Domestic Product | 13479.9 | 13892.9 | 14287.9 | 14680.7 | 15101.4 | 15540.1 | 16013.0 | 16450.0 | 16887.9 | 17362.6 | 17858.1 | 18388.7 | 18916.5 | 3.0% |
| Disposable Income | 9467.3 | 9778.5 | 10086.6 | 10394.5 | 10712.0 | 11043.2 | 11399.6 | 11713.2 | 12003.3 | 12318.1 | 12676.2 | 13061.4 | 13435.3 | 2.9% |
| Real Merchandise Exports | 1716.8 | 1845.5 | 1977.3 | 2115.7 | 2273.3 | 2452.6 | 2638.6 | 2827.0 | 3025.8 | 3243.9 | 3476.9 | 3719.1 | 3985.5 | 7.0% |
| Yield (ticket price, 1996 dollars) 1/ | 11.8 | 11.7 | 11.7 | 11.7 | 11.8 | 11.9 | 12.1 | 12.2 | 12.4 | 12.7 | 13.0 | 13.4 | 13.8 | 0.5% |
| Travel Demand (billion miles) | | | | | | | | | | | | | | |
| Revenue Passenger Miles Domestic | 644.1 | 664.2 | 683.1 | 702.5 | 720.0 | 737.5 | 752.6 | 767.2 | 779.9 | 791.8 | 802.0 | 811.5 | 819.5 | 2.2% |
| Personal | 350.5 | 361.9 | 372.9 | 384.5 | 394.9 | 405.2 | 414.1 | 422.6 | 429.9 | 436.6 | 442.3 | 447.7 | 452.2 | 2.5% |
| Business | 293.6 | 302.2 | 310.2 | 318.0 | 325.2 | 332.3 | 338.6 | 344.6 | 350.1 | 355.2 | 359.7 | 363.8 | 367.3 | 1.9% |
| Load Factor, Domestic 2/ | 0.73 | 0.73 | 0.74 | 0.74 | 0.74 | 0.74 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.76 | 0.76 | 0.4% |
| Revenue Passenger Miles, International | 259.9 | 268.4 | 276.4 | 284.3 | 291.5 | 298.6 | 304.8 | 310.7 | 315.9 | 320.7 | 324.8 | 328.7 | 331.9 | 2.7% |
| Load Factor, International 2/ | 0.77 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.79 | 0.3% |
| Revenue Ton Miles, Freight (billion) | 30.2 | 32.6 | 35.2 | 37.9 | 41.0 | 44.5 | 48.3 | 52.1 | 56.1 | 60.6 | 65.3 | 70.4 | 75.9 | 6.2% |
| Seat Miles Demanded (billion) | 1519.5 | 1577.9 | 1636.5 | 1695.2 | 1756.1 | 1819.3 | 1881.8 | 1942.3 | 2002.4 | 2064.0 | 2126.8 | 2189.6 | 2255.6 | 3.0% |
| Narrow Body Aircraft | 689.8 | 709.2 | 728.1 | 746.7 | 765.8 | 785.5 | 804.3 | 821.9 | 838.8 | 856.0 | 873.2 | 890.0 | 907.7 | 2.0% |
| Wide Body Aircraft | 829.7 | 868.7 | 908.3 | 948.5 | 990.3 | 1033.9 | 1077.5 | 1120.5 | 1163.6 | 1208.0 | 1253.6 | 1299.6 | 1348.0 | 3.9% |
| Aircraft Sales | | | | | | | | | | | | | | |
| Narrow Body Aircraft | 309.5 | 317.1 | 320.7 | 325.1 | 338.0 | 351.8 | 353.7 | 351.8 | 354.6 | 364.7 | 371.8 | 373.2 | 385.2 | 2.1% |
| Wide Body Aircraft | 119.3 | 123.3 | 125.9 | 128.7 | 134.2 | 140.0 | 142.1 | 142.9 | 145.4 | 150.7 | 155.4 | 158.5 | 165.9 | 3.9% |
| Aircraft Stock | | | | | | | | | | | | | | |
| Narrow Body Aircraft | 6053.1 | 6222.9 | 6389.3 | 6552.4 | 6719.9 | 6892.4 | 7057.6 | 7211.9 | 7360.5 | 7511.2 | 7662.4 | 7809.6 | 7964.7 | 1.8% |
| Wide Body Aircraft | 1815.6 | 1901.0 | 1987.7 | 2075.5 | 2167.0 | 2262.5 | 2357.9 | 2451.9 | 2546.3 | 2643.6 | 2743.3 | 2844.0 | 2949.8 | 3.8% |
| Advanced Technology Penetration | | | | | | | | | | | | | | |
| Ultra-high Bypass | 0.15 | 0.29 | 0.47 | 0.65 | 0.82 | 0.91 | 0.96 | 0.98 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 15.1% |
| Propfan | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Thermodynamics | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Hybrid Laminar Flow | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Advanced Aerodynamics | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Weight Reducing Materials | 0.98 | 0.99 | 0.99 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 21.2% |
| New Aircraft Efficiency 3/ | | | | | | | | | | | | | | |
| Narrow Body Aircraft | 54.3 | 54.7 | 55.1 | 55.5 | 55.9 | 56.4 | 56.8 | 57.2 | 57.6 | 58.1 | 58.5 | 58.9 | 59.4 | 0.7% |
| Wide Body Aircraft | 64.0 | 64.4 | 65.3 | 66.3 | 67.2 | 67.7 | 68.0 | 68.1 | 68.1 | 68.2 | 68.2 | 68.5 | 68.9 | 0.6% |
| Average Aircraft | 56.7 | 57.1 | 57.6 | 58.2 | 58.7 | 59.2 | 59.6 | 60.0 | 60.3 | 60.7 | 61.1 | 61.5 | 61.9 | 0.7% |
| Aircraft Stock Efficiency 3/ | | | | | | | | | | | | | | |
| Narrow Body Aircraft | 50.9 | 51.3 | 51.7 | 52.0 | 52.4 | 52.8 | 53.2 | 53.6 | 54.0 | 54.4 | 54.8 | 55.2 | 55.7 | 0.7% |
| Wide Body Aircraft | 60.1 | 60.4 | 60.8 | 61.2 | 61.6 | 62.0 | 62.4 | 62.8 | 63.2 | 63.6 | 63.9 | 64.2 | 64.6 | 0.6% |
| Average Aircraft | 55.5 | 55.9 | 56.3 | 56.8 | 57.2 | 57.7 | 58.1 | 58.6 | 59.0 | 59.4 | 59.8 | 60.3 | 60.7 | 0.7% |
| Fuel Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Commercial | | | | | | | | | | | | | | |
| Jet Fuel | 3695.3 | 3809.0 | 3920.6 | 4030.0 | 4141.8 | 4256.9 | 4368.9 | 4475.8 | 4580.7 | 4688.3 | 4797.6 | 4905.5 | 5019.0 | 2.3% |
| Aviation Gasoline | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | 0.0% |
| Military | | | | | | | | | | | | | | |
| Jet Fuel | 574.6 | 581.6 | 588.6 | 595.7 | 602.9 | 610.1 | 617.4 | 624.7 | 632.1 | 639.6 | 647.1 | 654.7 | 662.4 | 1.2% |

**Table 54. Air Travel Energy Use**

1/ Fraction of seats filled.
2/ 1992 cents per passenger mile.
3/ Seat miles per gallon.
Btu = British thermal unit.
N/A = Not applicable.
Sources: 2001 derived using: Decision Analysis Corporation of Virginia, NEMS Transportation Sector Model: Model Maintenance Re-Estimation of the Air Travel Demand Model, Subtask 22-1(a), (September 30, 1997); Federal Aviation Administration (FAA), FAA Aviation Forecasts, Fiscal Years 1998-2009, FAA-APO 98-1, and previous editions; United States Department of Transportation (DOT), Research and Special Programs Administration (RSPA), Fuel Cost and Consumption Tables, annual summaries, 1979-1990; U.S. Department of Transportation, RSPA, Air Carrier Financial Statistics Quarterly, December 1999/1998; U.S. Department of Transportation, RSPA, Air Carrier Statistics Monthly, December 2001/2000 (Washington, DC, 2001); Greene, D.L., "Energy Efficiency Improvement Potential of Commercial Aircraft to 2010," ORNL-6622, 6/1990; Rathi, A. B. Peterson, and D. Greene, Air Transport Energy Use Model, Oak Ridge National Laboratory, April 1991, Draft; Energy Information Administration (EIA), State Energy Data Report 1999, DOE/EIA-0214(99) (Washington, DC, May 2001); Department of Defense, Defense Energy Support Center, Fact Book: Fiscal Year 1999; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 55. Freight Transportation Energy Use**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Existing Trucks by Size Class | | | | | | | | | | | | | |
| Vehicle Miles Traveled (billion miles) | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | |
| Diesel | 31.98 | 32.03 | 31.88 | 33.29 | 34.57 | 35.46 | 36.57 | 37.88 | 39.17 | 40.64 | 42.29 | 43.88 | 45.33 |
| Gasoline | 15.71 | 14.05 | 13.23 | 13.12 | 12.77 | 12.21 | 11.77 | 11.40 | 11.03 | 10.73 | 10.52 | 10.34 | 10.18 |
| Liquefied Petroleum Gas | 0.44 | 0.38 | 0.35 | 0.33 | 0.31 | 0.30 | 0.29 | 0.29 | 0.30 | 0.32 | 0.33 | 0.35 | 0.37 |
| Compressed Natural Gas | 0.04 | 0.04 | 0.06 | 0.08 | 0.13 | 0.19 | 0.27 | 0.36 | 0.47 | 0.60 | 0.73 | 0.86 | 0.99 |
| Medium Subtotal | 48.16 | 46.51 | 45.52 | 46.82 | 47.78 | 48.17 | 48.90 | 49.93 | 50.97 | 52.29 | 53.87 | 55.43 | 56.86 |
| Heavy | | | | | | | | | | | | | |
| Diesel | 157.28 | 157.51 | 156.57 | 163.41 | 170.18 | 175.12 | 180.85 | 187.31 | 193.40 | 200.18 | 207.64 | 214.72 | 221.03 |
| Gasoline | 1.85 | 1.58 | 1.44 | 1.38 | 1.31 | 1.23 | 1.17 | 1.12 | 1.08 | 1.05 | 1.04 | 1.04 | 1.04 |
| Liquefied Petroleum Gas | 0.02 | 0.03 | 0.03 | 0.05 | 0.06 | 0.09 | 0.10 | 0.13 | 0.14 | 0.16 | 0.18 | 0.19 | 0.20 |
| Compressed Natural Gas | 0.02 | 0.04 | 0.05 | 0.08 | 0.13 | 0.19 | 0.27 | 0.36 | 0.46 | 0.56 | 0.66 | 0.76 | 0.85 |
| Heavy Subtotal | 159.17 | 159.15 | 158.09 | 164.91 | 171.68 | 176.63 | 182.39 | 188.92 | 195.09 | 201.96 | 209.52 | 216.71 | 223.11 |
| Total Vehicle Miles Traveled | 207.34 | 205.66 | 203.61 | 211.74 | 219.47 | 224.79 | 231.29 | 238.85 | 246.05 | 254.25 | 263.40 | 272.14 | 279.97 |
| Consumption (trillion Btu) | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | |
| Diesel | 490.80 | 488.07 | 482.98 | 501.97 | 519.22 | 530.86 | 546.30 | 565.19 | 584.10 | 606.03 | 630.63 | 654.37 | 676.09 |
| Gasoline | 233.98 | 208.42 | 195.64 | 193.40 | 187.71 | 179.14 | 172.28 | 166.49 | 160.71 | 156.09 | 152.69 | 149.66 | 146.90 |
| Liquefied Petroleum Gas | 8.96 | 7.78 | 7.03 | 6.60 | 6.15 | 5.72 | 5.48 | 5.40 | 5.45 | 5.62 | 5.83 | 6.06 | 6.26 |
| Compressed Natural Gas | 0.62 | 0.74 | 0.95 | 1.35 | 2.05 | 3.03 | 4.24 | 5.74 | 7.47 | 9.42 | 11.50 | 13.62 | 15.66 |
| Medium Subtotal | 734.36 | 705.01 | 686.61 | 703.32 | 715.12 | 718.75 | 728.30 | 742.83 | 757.74 | 777.15 | 800.65 | 823.72 | 844.90 |
| Heavy | | | | | | | | | | | | | |
| Diesel | 3606.13 | 3587.55 | 3547.49 | 3688.47 | 3830.69 | 3934.47 | 4060.10 | 4204.26 | 4341.11 | 4493.21 | 4658.28 | 4809.92 | 4936.88 |
| Gasoline | 33.44 | 28.40 | 25.69 | 24.64 | 23.32 | 21.82 | 20.66 | 19.75 | 18.98 | 18.47 | 18.20 | 18.04 | 17.95 |
| Liquefied Petroleum Gas | 0.35 | 0.46 | 0.61 | 0.82 | 1.13 | 1.48 | 1.82 | 2.17 | 2.51 | 2.83 | 3.11 | 3.34 | 3.51 |
| Compressed Natural Gas | 0.42 | 0.62 | 0.90 | 1.38 | 2.21 | 3.33 | 4.64 | 6.18 | 7.86 | 9.63 | 11.40 | 13.08 | 14.54 |
| Heavy Subtotal | 3640.34 | 3617.04 | 3574.69 | 3715.30 | 3857.36 | 3961.09 | 4087.22 | 4232.36 | 4370.45 | 4524.13 | 4690.99 | 4844.38 | 4972.88 |
| Medium and Heavy Total | | | | | | | | | | | | | |
| Diesel | 4096.93 | 4075.63 | 4030.47 | 4190.44 | 4349.90 | 4465.33 | 4606.40 | 4769.46 | 4925.21 | 5099.24 | 5288.92 | 5464.29 | 5612.96 |
| Gasoline | 267.43 | 236.82 | 221.34 | 218.04 | 211.03 | 200.96 | 192.93 | 186.25 | 179.69 | 174.56 | 170.89 | 167.71 | 164.86 |
| Liquefied Petroleum Gas | 9.31 | 8.24 | 7.64 | 7.42 | 7.28 | 7.20 | 7.30 | 7.57 | 7.96 | 8.44 | 8.94 | 9.40 | 9.76 |
| Compressed Natural Gas | 1.04 | 1.36 | 1.86 | 2.72 | 4.26 | 6.35 | 8.89 | 11.92 | 15.33 | 19.04 | 22.90 | 26.70 | 30.20 |
| Total | 4374.71 | 4322.05 | 4261.30 | 4418.62 | 4572.48 | 4679.84 | 4815.52 | 4975.20 | 5128.19 | 5301.28 | 5491.64 | 5668.10 | 5817.78 |
| Fuel Efficiency (gasoline equivalent) | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | |
| Diesel | 8.19 | 8.26 | 8.30 | 8.33 | 8.35 | 8.37 | 8.39 | 8.40 | 8.41 | 8.42 | 8.42 | 8.43 | 8.43 |
| Gasoline | 8.40 | 8.42 | 8.44 | 8.46 | 8.48 | 8.51 | 8.52 | 8.54 | 8.57 | 8.59 | 8.61 | 8.63 | 8.66 |
| Liquefied Petroleum Gas | 6.16 | 6.20 | 6.26 | 6.33 | 6.43 | 6.54 | 6.64 | 6.75 | 6.86 | 6.97 | 7.07 | 7.16 | 7.24 |
| Compressed Natural Gas | 7.40 | 7.58 | 7.70 | 7.79 | 7.85 | 7.88 | 7.89 | 7.89 | 7.90 | 7.90 | 7.91 | 7.92 | 7.93 |
| Medium Average | 8.24 | 8.29 | 8.32 | 8.35 | 8.37 | 8.39 | 8.41 | 8.42 | 8.43 | 8.44 | 8.45 | 8.45 | 8.46 |
| Heavy | | | | | | | | | | | | | |
| Diesel | 5.46 | 5.49 | 5.52 | 5.54 | 5.56 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.57 | 5.58 | 5.60 |
| Gasoline | 6.91 | 6.95 | 6.99 | 7.02 | 7.05 | 7.07 | 7.09 | 7.10 | 7.12 | 7.14 | 7.16 | 7.19 | 7.22 |
| Liquefied Petroleum Gas | 6.60 | 6.84 | 6.97 | 7.06 | 7.13 | 7.18 | 7.20 | 7.22 | 7.23 | 7.24 | 7.25 | 7.25 | 7.26 |
| Compressed Natural Gas | 7.00 | 7.08 | 7.14 | 7.18 | 7.22 | 7.24 | 7.25 | 7.25 | 7.26 | 7.26 | 7.26 | 7.27 | 7.27 |
| Heavy Average | 5.47 | 5.50 | 5.53 | 5.55 | 5.57 | 5.58 | 5.58 | 5.58 | 5.58 | 5.58 | 5.59 | 5.60 | 5.61 |

**Table 55. Freight Transportation Energy Use**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average | 5.93 | 5.95 | 5.98 | 5.99 | 6.00 | 6.01 | 6.01 | 6.00 | 6.00 | 6.00 | 6.00 | 6.01 | 6.02 |
| Stock (millions) | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | |
| Diesel | 1.94 | 2.01 | 2.07 | 2.14 | 2.23 | 2.35 | 2.45 | 2.56 | 2.67 | 2.78 | 2.90 | 3.02 | 3.15 |
| Gasoline | 2.08 | 2.02 | 1.96 | 1.90 | 1.85 | 1.81 | 1.76 | 1.72 | 1.68 | 1.64 | 1.60 | 1.57 | 1.54 |
| Liquefied Petroleum Gas | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Compressed Natural Gas | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 |
| Medium Subtotal | 4.08 | 4.09 | 4.08 | 4.09 | 4.14 | 4.21 | 4.28 | 4.34 | 4.42 | 4.50 | 4.59 | 4.69 | 4.79 |
| Heavy | | | | | | | | | | | | | |
| Diesel | 4.06 | 4.16 | 4.24 | 4.32 | 4.47 | 4.64 | 4.81 | 4.98 | 5.15 | 5.33 | 5.53 | 5.73 | 5.93 |
| Gasoline | 0.39 | 0.37 | 0.34 | 0.32 | 0.30 | 0.28 | 0.27 | 0.25 | 0.24 | 0.23 | 0.21 | 0.21 | 0.20 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 |
| Heavy Subtotal | 4.45 | 4.53 | 4.59 | 4.65 | 4.78 | 4.94 | 5.09 | 5.25 | 5.41 | 5.59 | 5.78 | 5.97 | 6.17 |
| Total Stock | 8.53 | 8.62 | 8.67 | 8.74 | 8.92 | 9.15 | 9.37 | 9.59 | 9.83 | 10.09 | 10.37 | 10.67 | 10.97 |
| New Trucks by Size Class | | | | | | | | | | | | | |
| Fuel Efficiency (gasoline equivalent) | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | |
| Diesel | 8.79 | 8.79 | 8.67 | 8.59 | 8.52 | 8.50 | 8.48 | 8.48 | 8.48 | 8.47 | 8.47 | 8.46 | 8.46 |
| Gasoline | 9.02 | 9.02 | 8.99 | 8.97 | 8.94 | 8.92 | 8.90 | 8.89 | 8.91 | 8.92 | 8.95 | 8.96 | 8.98 |
| Liquefied Petroleum Gas | 8.03 | 8.03 | 8.01 | 7.99 | 7.97 | 7.96 | 7.95 | 7.94 | 7.95 | 7.97 | 7.98 | 7.99 | 8.00 |
| Compressed Natural Gas | 8.02 | 8.01 | 7.99 | 7.97 | 7.95 | 7.92 | 7.91 | 7.90 | 7.91 | 7.92 | 7.94 | 7.95 | 7.96 |
| Medium Average | 8.83 | 8.82 | 8.72 | 8.64 | 8.57 | 8.54 | 8.52 | 8.52 | 8.51 | 8.51 | 8.50 | 8.50 | 8.50 |
| Heavy | | | | | | | | | | | | | |
| Diesel | 5.77 | 5.77 | 5.76 | 5.68 | 5.63 | 5.61 | 5.59 | 5.58 | 5.58 | 5.59 | 5.61 | 5.65 | 5.72 |
| Gasoline | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 |
| Liquefied Petroleum Gas | 7.30 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 |
| Compressed Natural Gas | 7.28 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 |
| Heavy Average | 5.77 | 5.78 | 5.76 | 5.69 | 5.64 | 5.62 | 5.60 | 5.59 | 5.59 | 5.60 | 5.62 | 5.67 | 5.73 |
| Average | 6.14 | 6.14 | 6.13 | 6.05 | 6.00 | 5.98 | 5.96 | 5.95 | 5.95 | 5.96 | 5.98 | 6.02 | 6.08 |
| Sales (millions) | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | |
| Diesel | 0.17 | 0.13 | 0.12 | 0.13 | 0.16 | 0.18 | 0.18 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 | 0.23 |
| Gasoline | 0.05 | 0.04 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Medium Subtotal | 0.22 | 0.17 | 0.15 | 0.16 | 0.21 | 0.24 | 0.23 | 0.24 | 0.25 | 0.27 | 0.28 | 0.29 | 0.30 |
| Heavy | | | | | | | | | | | | | |
| Diesel | 0.34 | 0.26 | 0.23 | 0.25 | 0.32 | 0.35 | 0.35 | 0.36 | 0.38 | 0.39 | 0.41 | 0.43 | 0.44 |
| Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compressed Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 |
| Heavy Subtotal | 0.35 | 0.26 | 0.24 | 0.25 | 0.33 | 0.36 | 0.36 | 0.37 | 0.39 | 0.41 | 0.42 | 0.44 | 0.45 |
| Total Sales | 0.57 | 0.43 | 0.39 | 0.42 | 0.54 | 0.60 | 0.59 | 0.61 | 0.64 | 0.67 | 0.70 | 0.73 | 0.75 |
| Railroads | | | | | | | | | | | | | |
| Ton Miles by Rail (billion ton miles) | 1389.71 | 1447.95 | 1404.14 | 1432.42 | 1453.67 | 1475.18 | 1520.88 | 1562.70 | 1592.79 | 1628.12 | 1669.37 | 1718.37 | 1749.28 |
| Fuel Efficiency (ton miles per thousand Btu) | 2.80 | 2.82 | 2.85 | 2.88 | 2.91 | 2.94 | 2.97 | 3.00 | 3.03 | 3.06 | 3.09 | 3.12 | 3.15 |
| Fuel Consumption (trillion Btu) | | | | | | | | | | | | | |

**Table 55. Freight Transportation Energy Use**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate (diesel) | 497.15 | 512.81 | 492.32 | 497.21 | 499.54 | 501.86 | 512.23 | 521.06 | 525.78 | 532.07 | 540.09 | 550.39 | 554.68 |
| Residual Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Domestic Shipping | | | | | | | | | | | | | |
| Ton Miles Shipping (billion ton miles) | 646.87 | 787.73 | 775.06 | 786.30 | 795.92 | 802.73 | 823.22 | 836.90 | 850.10 | 861.95 | 874.43 | 888.91 | 901.94 |
| Fuel Efficiency (ton miles per thousand Btu) | 2.28 | 2.29 | 2.29 | 2.30 | 2.30 | 2.31 | 2.31 | 2.31 | 2.32 | 2.32 | 2.33 | 2.33 | 2.34 |
| Fuel Consumption (trillion Btu) | | | | | | | | | | | | | |
| Distillate (diesel) | 200.09 | 247.90 | 243.71 | 246.75 | 249.27 | 250.90 | 256.79 | 260.53 | 264.11 | 267.26 | 270.58 | 274.51 | 277.98 |
| Residual Oil | 83.34 | 96.69 | 94.68 | 95.86 | 96.84 | 97.47 | 99.76 | 101.22 | 102.61 | 103.83 | 105.12 | 106.65 | 108.00 |
| Motor Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| International Shipping | | | | | | | | | | | | | |
| Gross Trade (billion 1996 dollars) | 2163.75 | 2076.21 | 2094.19 | 2234.37 | 2371.22 | 2485.76 | 2653.33 | 2811.37 | 2975.71 | 3162.94 | 3364.01 | 3574.37 | 3801.73 |
| Exports (billion 1996 dollars) | 834.69 | 785.17 | 762.65 | 823.61 | 888.36 | 938.50 | 1018.73 | 1088.12 | 1171.87 | 1269.79 | 1372.77 | 1481.79 | 1595.16 |
| Imports (billion 1996 dollars) | 1329.07 | 1291.04 | 1331.54 | 1410.76 | 1482.86 | 1547.26 | 1634.59 | 1723.25 | 1803.85 | 1893.15 | 1991.23 | 2092.58 | 2206.57 |
| Fuel Consumption (trillion Btu) | | | | | | | | | | | | | |
| Distillate (diesel) | 54.52 | 53.36 | 49.96 | 51.83 | 51.90 | 51.96 | 52.04 | 52.12 | 52.19 | 52.27 | 52.34 | 52.42 | 52.49 |
| Residual Oil | 786.77 | 721.03 | 672.50 | 697.62 | 698.64 | 699.44 | 700.52 | 701.51 | 702.48 | 703.52 | 704.56 | 705.57 | 706.60 |

**Table 55. Freight Transportation Energy Use**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Existing Trucks by Size Class | | | | | | | | | | | | | | |
| Vehicle Miles Traveled (billion miles) | | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | | |
| Diesel | 46.68 | 48.13 | 49.47 | 50.79 | 52.28 | 53.87 | 55.59 | 57.16 | 58.76 | 60.55 | 62.33 | 64.28 | 65.98 | 3.1% |
| Gasoline | 10.03 | 9.95 | 9.86 | 9.80 | 9.79 | 9.79 | 9.82 | 9.82 | 9.83 | 9.87 | 9.92 | 10.00 | 10.06 | -1.4% |
| Liquefied Petroleum Gas | 0.38 | 0.39 | 0.40 | 0.40 | 0.41 | 0.42 | 0.42 | 0.43 | 0.44 | 0.45 | 0.46 | 0.47 | 0.48 | 1.0% |
| Compressed Natural Gas | 1.11 | 1.23 | 1.33 | 1.42 | 1.50 | 1.58 | 1.67 | 1.74 | 1.80 | 1.87 | 1.94 | 2.01 | 2.07 | 17.4% |
| Medium Subtotal | 58.21 | 59.70 | 61.06 | 62.41 | 63.98 | 65.66 | 67.50 | 69.15 | 70.84 | 72.74 | 74.65 | 76.77 | 78.59 | 2.2% |
| Heavy | | | | | | | | | | | | | | |
| Diesel | 226.69 | 232.63 | 237.75 | 242.62 | 248.09 | 253.90 | 260.33 | 266.04 | 271.92 | 278.71 | 285.47 | 292.92 | 299.12 | 2.7% |
| Gasoline | 1.04 | 1.05 | 1.05 | 1.06 | 1.08 | 1.09 | 1.11 | 1.13 | 1.15 | 1.18 | 1.20 | 1.23 | 1.26 | -0.9% |
| Liquefied Petroleum Gas | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 | 9.6% |
| Compressed Natural Gas | 0.91 | 0.97 | 1.01 | 1.04 | 1.06 | 1.09 | 1.11 | 1.14 | 1.16 | 1.19 | 1.22 | 1.25 | 1.27 | 16.1% |
| Heavy Subtotal | 228.85 | 234.85 | 240.03 | 244.93 | 250.44 | 256.29 | 262.77 | 268.52 | 274.45 | 281.30 | 288.12 | 295.63 | 301.88 | 2.7% |
| Total Vehicle Miles Traveled | 287.06 | 294.55 | 301.08 | 307.35 | 314.42 | 321.95 | 330.27 | 337.67 | 345.28 | 354.04 | 362.77 | 372.40 | 380.47 | 2.6% |
| Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | | |
| Diesel | 696.31 | 718.02 | 737.88 | 757.58 | 779.71 | 803.25 | 828.84 | 852.12 | 875.93 | 902.45 | 928.88 | 957.84 | 983.07 | 3.0% |
| Gasoline | 144.48 | 142.90 | 141.37 | 140.14 | 139.61 | 139.38 | 139.47 | 139.15 | 138.99 | 139.26 | 139.64 | 140.55 | 141.09 | -1.6% |
| Liquefied Petroleum Gas | 6.41 | 6.54 | 6.62 | 6.68 | 6.76 | 6.84 | 6.94 | 7.02 | 7.11 | 7.24 | 7.40 | 7.58 | 7.75 | 0.0% |
| Compressed Natural Gas | 17.55 | 19.31 | 20.87 | 22.27 | 23.61 | 24.89 | 26.16 | 27.28 | 28.34 | 29.44 | 30.51 | 31.62 | 32.55 | 17.1% |
| Medium Subtotal | 864.75 | 886.78 | 906.74 | 926.67 | 949.69 | 974.37 | 1001.42 | 1025.57 | 1050.37 | 1078.39 | 1106.43 | 1137.59 | 1164.47 | 2.1% |
| Heavy | | | | | | | | | | | | | | |
| Diesel | 5041.72 | 5143.75 | 5219.25 | 5283.47 | 5358.80 | 5437.66 | 5529.05 | 5607.92 | 5694.15 | 5803.00 | 5915.11 | 6045.39 | 6153.24 | 2.3% |
| Gasoline | 17.91 | 17.98 | 18.05 | 18.16 | 18.35 | 18.60 | 18.91 | 19.18 | 19.49 | 19.89 | 20.31 | 20.81 | 21.25 | -1.2% |
| Liquefied Petroleum Gas | 3.61 | 3.66 | 3.66 | 3.63 | 3.61 | 3.59 | 3.60 | 3.62 | 3.66 | 3.72 | 3.80 | 3.89 | 3.96 | 9.3% |
| Compressed Natural Gas | 15.74 | 16.71 | 17.40 | 17.90 | 18.32 | 18.72 | 19.18 | 19.59 | 20.01 | 20.52 | 21.00 | 21.48 | 21.79 | 16.0% |
| Heavy Subtotal | 5078.99 | 5182.10 | 5258.37 | 5323.16 | 5399.08 | 5478.57 | 5570.73 | 5650.31 | 5737.30 | 5847.13 | 5960.23 | 6091.58 | 6200.24 | 2.3% |
| Medium and Heavy Total | | | | | | | | | | | | | | |
| Diesel | 5738.04 | 5861.77 | 5957.13 | 6041.05 | 6138.51 | 6240.91 | 6357.89 | 6460.04 | 6570.08 | 6705.45 | 6843.99 | 7003.23 | 7136.32 | 2.4% |
| Gasoline | 162.39 | 160.88 | 159.42 | 158.30 | 157.96 | 157.98 | 158.37 | 158.33 | 158.49 | 159.16 | 159.95 | 161.37 | 162.34 | -1.6% |
| Liquefied Petroleum Gas | 10.02 | 10.20 | 10.28 | 10.31 | 10.36 | 10.43 | 10.54 | 10.64 | 10.76 | 10.96 | 11.20 | 11.48 | 11.70 | 1.5% |
| Compressed Natural Gas | 33.29 | 36.02 | 38.27 | 40.17 | 41.93 | 43.62 | 45.34 | 46.87 | 48.34 | 49.96 | 51.51 | 53.10 | 54.35 | 16.6% |
| Total | 5943.74 | 6068.88 | 6165.11 | 6249.83 | 6348.77 | 6452.93 | 6572.15 | 6675.88 | 6787.67 | 6925.52 | 7066.66 | 7229.17 | 7364.71 | 2.2% |
| Fuel Efficiency (gasoline equivalent) | | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | | |
| Diesel | 8.44 | 8.44 | 8.44 | 8.44 | 8.45 | 8.45 | 8.45 | 8.45 | 8.45 | 8.45 | 8.45 | 8.45 | 8.45 | 0.1% |
| Gasoline | 8.68 | 8.70 | 8.73 | 8.75 | 8.78 | 8.80 | 8.83 | 8.85 | 8.88 | 8.90 | 8.92 | 8.94 | 8.96 | 0.3% |
| Liquefied Petroleum Gas | 7.32 | 7.38 | 7.43 | 7.48 | 7.52 | 7.56 | 7.60 | 7.63 | 7.66 | 7.69 | 7.72 | 7.75 | 7.77 | 0.9% |
| Compressed Natural Gas | 7.93 | 7.94 | 7.94 | 7.94 | 7.95 | 7.95 | 7.95 | 7.95 | 7.95 | 7.95 | 7.95 | 7.95 | 7.95 | 0.2% |
| Medium Average | 8.46 | 8.47 | 8.47 | 8.48 | 8.48 | 8.48 | 8.49 | 8.49 | 8.49 | 8.50 | 8.50 | 8.50 | 8.50 | 0.1% |
| Heavy | | | | | | | | | | | | | | |
| Diesel | 5.62 | 5.66 | 5.70 | 5.74 | 5.79 | 5.84 | 5.89 | 5.93 | 5.97 | 6.01 | 6.04 | 6.06 | 6.08 | 0.4% |
| Gasoline | 7.24 | 7.27 | 7.29 | 7.31 | 7.33 | 7.35 | 7.36 | 7.38 | 7.39 | 7.40 | 7.41 | 7.42 | 7.43 | 0.3% |
| Liquefied Petroleum Gas | 7.26 | 7.26 | 7.26 | 7.26 | 7.26 | 7.26 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 0.3% |
| Compressed Natural Gas | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 0.1% |
| Heavy Average | 5.64 | 5.67 | 5.71 | 5.75 | 5.80 | 5.85 | 5.90 | 5.94 | 5.98 | 6.02 | 6.05 | 6.07 | 6.09 | 0.4% |

**Table 55. Freight Transportation Energy Use**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average | 6.04 | 6.07 | 6.11 | 6.15 | 6.19 | 6.24 | 6.29 | 6.33 | 6.36 | 6.39 | 6.42 | 6.44 | 6.46 | 0.3% |
| Stock (millions) | | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | | |
| Diesel | 3.27 | 3.39 | 3.50 | 3.61 | 3.72 | 3.82 | 3.93 | 4.05 | 4.16 | 4.28 | 4.41 | 4.52 | 4.63 | 3.5% |
| Gasoline | 1.51 | 1.48 | 1.45 | 1.43 | 1.40 | 1.38 | 1.36 | 1.34 | 1.33 | 1.32 | 1.31 | 1.30 | 1.29 | -1.9% |
| Liquefied Petroleum Gas | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.2% |
| Compressed Natural Gas | 0.08 | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | 0.14 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 15.4% |
| Medium Subtotal | 4.90 | 5.00 | 5.10 | 5.19 | 5.28 | 5.37 | 5.47 | 5.58 | 5.69 | 5.81 | 5.93 | 6.05 | 6.15 | 1.7% |
| Heavy | | | | | | | | | | | | | | |
| Diesel | 6.13 | 6.32 | 6.50 | 6.67 | 6.83 | 6.99 | 7.15 | 7.32 | 7.49 | 7.68 | 7.85 | 8.02 | 8.17 | 2.9% |
| Gasoline | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | -3.5% |
| Liquefied Petroleum Gas | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 7.6% |
| Compressed Natural Gas | 0.04 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.10 | 15.9% |
| Heavy Subtotal | 6.37 | 6.56 | 6.75 | 6.92 | 7.08 | 7.24 | 7.40 | 7.58 | 7.75 | 7.94 | 8.12 | 8.29 | 8.45 | 2.6% |
| Total Stock | 11.27 | 11.56 | 11.84 | 12.11 | 12.35 | 12.61 | 12.87 | 13.16 | 13.44 | 13.75 | 14.05 | 14.34 | 14.60 | 2.2% |
| New Trucks by Size Class | | | | | | | | | | | | | | |
| Fuel Efficiency (gasoline equivalent) | | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | | |
| Diesel | 8.46 | 8.46 | 8.46 | 8.46 | 8.46 | 8.46 | 8.46 | 8.46 | 8.46 | 8.46 | 8.46 | 8.46 | 8.46 | -0.2% |
| Gasoline | 9.00 | 9.03 | 9.06 | 9.10 | 9.13 | 9.16 | 9.18 | 9.20 | 9.20 | 9.20 | 9.20 | 9.20 | 9.20 | 0.1% |
| Liquefied Petroleum Gas | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 8.00 | 0.0% |
| Compressed Natural Gas | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 7.96 | 0.0% |
| Medium Average | 8.50 | 8.51 | 8.51 | 8.51 | 8.51 | 8.52 | 8.52 | 8.52 | 8.52 | 8.52 | 8.52 | 8.52 | 8.52 | -0.1% |
| Heavy | | | | | | | | | | | | | | |
| Diesel | 5.80 | 5.89 | 5.99 | 6.07 | 6.12 | 6.18 | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 6.21 | 0.3% |
| Gasoline | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 7.50 | 0.0% |
| Liquefied Petroleum Gas | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 7.28 | 0.0% |
| Compressed Natural Gas | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 7.27 | 0.0% |
| Heavy Average | 5.81 | 5.90 | 6.01 | 6.09 | 6.13 | 6.19 | 6.22 | 6.22 | 6.22 | 6.22 | 6.22 | 6.23 | 6.23 | 0.3% |
| Average | 6.15 | 6.24 | 6.33 | 6.41 | 6.45 | 6.51 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 0.3% |
| Sales (millions) | | | | | | | | | | | | | | |
| Medium | | | | | | | | | | | | | | |
| Diesel | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.28 | 0.28 | 0.28 | 3.3% |
| Gasoline | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 1.3% |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.6% |
| Compressed Natural Gas | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 12.3% |
| Medium Subtotal | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.35 | 0.35 | 0.35 | 3.1% |
| Heavy | | | | | | | | | | | | | | |
| Diesel | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.46 | 0.48 | 0.48 | 0.50 | 0.51 | 0.51 | 0.51 | 2.8% |
| Gasoline | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 3.9% |
| Liquefied Petroleum Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.0% |
| Compressed Natural Gas | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 11.5% |
| Heavy Subtotal | 0.46 | 0.46 | 0.46 | 0.45 | 0.45 | 0.46 | 0.47 | 0.49 | 0.50 | 0.52 | 0.53 | 0.52 | 0.52 | 2.9% |
| Total Sales | 0.76 | 0.76 | 0.76 | 0.75 | 0.75 | 0.76 | 0.79 | 0.82 | 0.83 | 0.87 | 0.88 | 0.88 | 0.87 | 3.0% |
| Railroads | | | | | | | | | | | | | | |
| Ton Miles by Rail (billion ton miles) | 1776.22 | 1803.81 | 1832.67 | 1867.72 | 1899.94 | 1928.32 | 1962.61 | 1990.74 | 2014.97 | 2048.92 | 2083.44 | 2117.12 | 2154.56 | 1.7% |
| Fuel Efficiency (ton miles per thousand Btu) | 3.19 | 3.22 | 3.25 | 3.28 | 3.32 | 3.35 | 3.38 | 3.42 | 3.45 | 3.49 | 3.52 | 3.56 | 3.59 | 1.0% |
| Fuel Consumption (trillion Btu) | | | | | | | | | | | | | | |

**Table 55. Freight Transportation Energy Use**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Distillate (diesel) | 557.59 | 560.59 | 563.87 | 568.90 | 572.93 | 575.67 | 580.05 | 582.48 | 583.67 | 587.57 | 591.50 | 595.05 | 599.52 | 0.7% |
| Residual Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electricity | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| | | | | | | | | | | | | | | |
| Domestic Shipping | | | | | | | | | | | | | | |
| Ton Miles Shipping (billion ton miles) | 912.30 | 925.01 | 937.39 | 948.06 | 960.57 | 976.89 | 995.53 | 1009.17 | 1023.60 | 1042.30 | 1056.10 | 1072.43 | 1086.86 | 1.4% |
| Fuel Efficiency (ton miles per thousand Btu) | 2.34 | 2.35 | 2.35 | 2.36 | 2.36 | 2.37 | 2.37 | 2.38 | 2.38 | 2.39 | 2.39 | 2.39 | 2.40 | 0.2% |
| Fuel Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Distillate (diesel) | 280.61 | 283.95 | 287.18 | 289.87 | 293.10 | 297.49 | 302.56 | 306.09 | 309.84 | 314.87 | 318.40 | 322.68 | 326.37 | 1.2% |
| Residual Oil | 109.02 | 110.32 | 111.57 | 112.61 | 113.87 | 115.58 | 117.54 | 118.92 | 120.38 | 122.33 | 123.70 | 125.36 | 126.80 | 1.1% |
| Motor Gasoline | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| | | | | | | | | | | | | | | |
| International Shipping | | | | | | | | | | | | | | |
| Gross Trade (billion 1996 dollars) | 4054.76 | 4327.57 | 4611.41 | 4900.22 | 5209.90 | 5561.70 | 5948.26 | 6339.18 | 6731.86 | 7166.31 | 7641.17 | 8143.85 | 8656.50 | 6.1% |
| Exports (billion 1996 dollars) | 1716.79 | 1845.48 | 1977.27 | 2115.69 | 2273.34 | 2452.63 | 2638.58 | 2827.04 | 3025.82 | 3243.95 | 3476.90 | 3719.09 | 3985.48 | 7.0% |
| Imports (billion 1996 dollars) | 2337.97 | 2482.09 | 2634.14 | 2784.52 | 2936.56 | 3109.06 | 3309.68 | 3512.14 | 3706.04 | 3922.36 | 4164.27 | 4424.75 | 4671.02 | 5.5% |
| Fuel Consumption (trillion Btu) | | | | | | | | | | | | | | |
| Distillate (diesel) | 52.58 | 52.66 | 52.74 | 52.82 | 52.90 | 52.98 | 53.07 | 53.15 | 53.23 | 53.32 | 53.41 | 53.49 | 53.58 | 0.0% |
| Residual Oil | 707.69 | 708.79 | 709.87 | 710.92 | 712.00 | 713.14 | 714.33 | 715.47 | 716.56 | 717.70 | 718.86 | 720.03 | 721.16 | 0.0% |

**Table 55. Freight Transportation Energy Use**

Btu = British thermal unit.
N/A = Not applicable.
Sources: 2001 derived using: Oak Ridge National Laboratory, Transportation Energy Data Book: Edition 22 and Annual (Oak Ridge, TN, September 2002); United States Department of Transportation, 1989 Carload Waybill Statistics Traffic and Revenue by Commodity Classes, September 1991 and prior issues; Reebie Associates, TRANSEARCH Database, (Greenwich, Connecticut, 1989); Army Corps of Engineers, Waterborne Commerce of the United States, (New Orleans), 1991 and prior issues; U.S. Department of Commerce, Bureau of the Census, "Vehicle Inventory and Use Survey," EC97TV (Washington, DC, October 1999); Federal Highway Administration, Highway Statistics 2000 (Washington, DC, November 2001); and Energy Information Administration (EIA), AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Car | | | | | | | | | | | | | |
| Unit Body Construction | 93.41 | 92.95 | 92.97 | 93.72 | 93.29 | 93.31 | 93.41 | 93.36 | 93.36 | 93.40 | 93.36 | 93.30 | 93.35 |
| Material Substitution II | 49.96 | 49.97 | 49.97 | 49.95 | 49.97 | 49.96 | 49.94 | 49.94 | 49.93 | 49.93 | 49.92 | 49.92 | 49.91 |
| Material Substitution III | 0.00 | 0.04 | 0.24 | 0.47 | 0.78 | 1.22 | 2.12 | 2.78 | 3.03 | 3.56 | 4.35 | 4.73 | 5.28 |
| Material Substitution IV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.12 | 0.26 | 0.47 | 0.75 | 1.03 | 1.35 |
| Material Substitution V | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Drag Reduction II | 54.27 | 54.51 | 54.37 | 54.03 | 54.27 | 54.20 | 54.52 | 54.52 | 54.52 | 54.50 | 54.49 | 54.50 | 53.86 |
| Drag Reduction III | 0.15 | 0.22 | 0.61 | 1.01 | 1.57 | 2.42 | 4.77 | 6.90 | 7.50 | 9.00 | 11.56 | 12.72 | 14.45 |
| Drag Reduction IV | 0.00 | 0.00 | 0.06 | 0.21 | 0.52 | 0.97 | 2.05 | 3.11 | 3.63 | 4.55 | 5.91 | 6.78 | 7.79 |
| Drag Reduction V | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.17 | 0.42 |
| Roll-Over Technology | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 25.00 | 50.00 | 75.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Side Impact Technology | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 25.00 | 50.00 | 75.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Advanced Low Loss Torque Converter | 5.83 | 7.23 | 11.11 | 11.13 | 11.89 | 13.87 | 23.15 | 28.88 | 30.80 | 33.91 | 37.85 | 39.80 | 42.88 |
| Early Torque Converter Lockup | 0.00 | 0.00 | 0.12 | 0.38 | 1.02 | 2.06 | 5.35 | 9.11 | 10.75 | 13.72 | 17.89 | 20.09 | 21.71 |
| Aggressive Shift Logic | 2.94 | 2.98 | 3.02 | 3.06 | 3.20 | 3.44 | 3.97 | 4.51 | 4.73 | 5.16 | 5.82 | 6.16 | 6.60 |
| 4-Speed Automatic | 70.97 | 71.65 | 71.44 | 70.24 | 70.77 | 70.41 | 69.74 | 69.27 | 68.71 | 67.72 | 66.28 | 64.94 | 62.90 |
| 5-Speed Automatic | 7.84 | 7.95 | 7.96 | 7.84 | 8.00 | 8.11 | 8.23 | 8.36 | 8.45 | 8.55 | 8.67 | 8.75 | 8.84 |
| 6-Speed Automatic | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.10 | 0.24 | 0.40 | 0.57 | 0.77 | 0.99 | 1.23 | 1.45 |
| 6-Speed Manual | 0.98 | 0.99 | 1.10 | 1.18 | 1.31 | 1.52 | 1.91 | 2.20 | 2.38 | 2.64 | 2.88 | 2.99 | 3.11 |
| CVT | 0.04 | 0.06 | 0.16 | 0.29 | 0.46 | 0.72 | 1.14 | 1.48 | 1.71 | 2.06 | 2.50 | 2.74 | 3.06 |
| Automated Manual Trans | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.13 | 0.39 | 0.93 | 2.01 | 3.31 | 5.27 |
| Roller Cam | 84.82 | 87.09 | 93.16 | 93.03 | 93.15 | 93.17 | 93.27 | 93.32 | 93.34 | 93.37 | 93.42 | 93.44 | 93.45 |
| OHC/AdvOHV-4 Cylinder | 3.56 | 3.51 | 3.50 | 3.58 | 3.54 | 3.53 | 3.54 | 3.54 | 3.53 | 3.54 | 3.54 | 3.53 | 3.54 |
| OHC/AdvOHV-6 Cylinder | 5.12 | 5.20 | 5.20 | 4.99 | 4.97 | 4.78 | 4.53 | 4.29 | 4.09 | 3.93 | 3.82 | 3.75 | 3.72 |
| OHC/AdvOHV-8 Cylinder | 3.03 | 3.20 | 3.19 | 2.92 | 3.07 | 3.07 | 3.03 | 3.04 | 3.04 | 3.02 | 3.03 | 3.04 | 3.02 |
| 4-Valve/4-Cylinder | 48.13 | 46.88 | 47.09 | 49.03 | 47.81 | 47.91 | 48.20 | 48.08 | 48.08 | 48.20 | 48.11 | 47.92 | 48.05 |
| 4-Valve/6-Cylinder | 23.42 | 23.51 | 22.86 | 22.12 | 22.71 | 22.85 | 22.96 | 23.25 | 23.45 | 23.56 | 23.71 | 23.86 | 23.84 |
| 4-Valve/8-Cylinder | 8.43 | 8.79 | 8.77 | 8.26 | 8.66 | 8.80 | 8.90 | 9.11 | 9.26 | 9.29 | 9.32 | 9.36 | 9.33 |
| 5-Valve/6-Cylinder | 1.17 | 1.63 | 2.18 | 2.14 | 2.18 | 2.19 | 2.18 | 2.19 | 2.19 | 2.19 | 2.19 | 2.20 | 2.20 |
| VVT-4 Cylinder | 14.27 | 17.32 | 22.10 | 26.76 | 32.21 | 37.37 | 41.91 | 45.46 | 46.89 | 48.04 | 48.70 | 48.54 | 48.75 |
| VVT-6 Cylinder | 3.34 | 3.44 | 3.59 | 3.56 | 3.92 | 4.31 | 4.76 | 5.32 | 5.73 | 6.03 | 6.33 | 6.49 | 6.62 |
| VVT-8 Cylinder | 0.40 | 0.48 | 0.69 | 0.89 | 1.35 | 1.59 | 1.89 | 2.19 | 2.37 | 2.50 | 2.65 | 2.72 | 2.75 |
| VVL-4 Cylinder | 6.58 | 6.53 | 6.54 | 6.73 | 6.83 | 7.14 | 7.52 | 7.97 | 8.31 | 8.57 | 8.77 | 8.90 | 8.96 |
| VVL-6 Cylinder | 0.39 | 0.40 | 0.54 | 0.78 | 1.10 | 1.51 | 1.92 | 2.32 | 2.64 | 2.93 | 3.19 | 3.34 | 3.46 |
| VVL-8 Cylinder | 1.09 | 1.16 | 1.27 | 1.32 | 1.56 | 1.74 | 1.92 | 2.08 | 2.13 | 2.12 | 2.11 | 2.09 | 2.04 |
| Camless Valve Actuation-4cyl | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.11 | 0.25 | 0.44 |
| Camless Valve Actuation-6cyl | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.11 | 0.24 | 0.42 | 0.66 |
| Camless Valve Actuation-8cyl | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.10 | 0.21 | 0.35 | 0.52 | 0.70 |
| Cylinder Deactivation | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.14 | 0.36 | 0.64 | 0.91 | 1.23 | 1.47 | 1.67 | 1.90 |
| Turbocharging/Supercharging | 0.00 | 0.03 | 0.13 | 0.28 | 0.49 | 0.74 | 0.98 | 1.23 | 1.44 | 1.65 | 1.84 | 1.96 | 2.07 |
| Engine Friction Reduction I | 65.93 | 67.05 | 69.38 | 69.47 | 69.41 | 69.40 | 69.23 | 69.14 | 69.11 | 69.06 | 68.81 | 68.58 | 68.19 |
| Engine Friction Reduction II | 19.10 | 19.39 | 19.79 | 19.93 | 21.27 | 22.44 | 23.86 | 25.10 | 25.43 | 26.03 | 27.43 | 27.58 | 27.94 |
| Engine Friction Reduction III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.19 | 0.53 | 0.97 | 1.58 |
| Engine Friction Reduction IV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Stoichiometric GDI/4-Cylinder | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.11 | 0.26 | 0.45 | 0.70 | 0.96 | 1.24 |
| Stoichiometric GDI/6-Cylinder | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.11 | 0.24 | 0.41 | 0.64 | 0.88 | 1.13 |
| Lean Burn GDI | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.13 | 0.30 | 0.53 | 0.86 | 1.17 | 1.52 |
| 5W-30 Engine Oil | 40.10 | 40.31 | 40.31 | 39.96 | 40.16 | 40.15 | 40.10 | 40.11 | 40.10 | 40.06 | 40.05 | 40.06 | 40.01 |
| 5W-20 Engine Oil | 0.00 | 0.00 | 0.00 | 0.05 | 0.24 | 0.69 | 1.89 | 3.49 | 4.51 | 6.12 | 8.59 | 10.29 | 12.57 |
| 0W-20 Engine Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electric Power Steering | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.15 | 0.42 | 0.81 | 1.26 | 1.87 | 2.70 | 3.42 | 4.35 |
| Improved Alternator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.14 | 0.32 | 0.53 | 0.83 | 1.19 | 1.50 | 1.85 |
| Improved Oil/Water Pump | 0.00 | 0.07 | 0.43 | 0.84 | 1.42 | 2.28 | 4.70 | 6.88 | 7.49 | 9.03 | 11.66 | 12.83 | 14.58 |
| Electric Oil/Water Pump | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.11 | 0.26 | 0.47 | 0.73 | 1.03 |
| Tires II | 52.59 | 53.02 | 53.03 | 52.35 | 52.76 | 52.73 | 52.87 | 53.08 | 53.06 | 52.99 | 52.98 | 53.00 | 52.91 |

**Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tires III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.28 | 0.86 | 1.54 | 2.66 | 4.32 | 5.78 | 7.63 |
| Tires IV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Front Wheel Drive | 82.60 | 82.68 | 82.70 | 82.56 | 82.62 | 82.63 | 82.63 | 82.64 | 82.64 | 82.64 | 82.64 | 82.65 | 82.64 |
| Four Wheel Drive Improvements | 0.00 | 0.02 | 0.13 | 0.24 | 0.38 | 0.54 | 0.81 | 1.07 | 1.15 | 1.28 | 1.45 | 1.49 | 1.57 |
| 42V-Launch Assist and Regen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | 0.20 | 0.34 | 0.52 | 0.71 | 0.89 |
| 42V-Engine Off at Idle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | 0.20 | 0.34 | 0.52 | 0.71 | 0.89 | 1.08 |
| Tier 2 Emissions Technology | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.33 | 66.67 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Increased Size/Weight | 0.00 | 5.00 | 10.00 | 15.00 | 20.00 | 25.00 | 30.00 | 35.00 | 40.00 | 45.00 | 50.00 | 55.00 | 60.00 |
| Variable Compression Ratio | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Light Truck | | | | | | | | | | | | | |
| Unit Body Construction | 19.23 | 18.76 | 19.08 | 19.89 | 19.46 | 19.72 | 20.22 | 20.53 | 20.56 | 20.82 | 21.14 | 21.11 | 21.30 |
| Material Substitution II | 30.41 | 30.50 | 30.43 | 30.38 | 30.54 | 30.60 | 30.71 | 31.05 | 31.12 | 31.28 | 31.55 | 31.71 | 31.89 |
| Material Substitution III | 0.00 | 0.00 | 0.05 | 0.14 | 0.33 | 0.61 | 1.26 | 1.84 | 2.16 | 2.66 | 3.35 | 3.81 | 4.35 |
| Material Substitution IV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | 0.20 |
| Material Substitution V | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Drag Reduction II | 32.53 | 32.46 | 36.36 | 36.61 | 36.66 | 37.03 | 44.92 | 47.84 | 48.06 | 48.94 | 50.42 | 50.90 | 51.48 |
| Drag Reduction III | 0.00 | 0.11 | 0.61 | 1.19 | 2.11 | 3.77 | 9.08 | 14.28 | 16.06 | 19.25 | 23.42 | 24.98 | 28.10 |
| Drag Reduction IV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.23 | 0.60 | 1.29 | 2.60 | 4.03 | 5.89 |
| Drag Reduction V | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Roll-Over Technology | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 50.00 | 75.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Side Impact Technology | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 50.00 | 75.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Advanced Low Loss Torque Converter | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.13 | 0.88 | 3.62 | 7.28 | 13.14 | 19.97 | 25.97 | 31.28 |
| Early Torque Converter Lockup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.50 | 1.52 | 3.74 | 8.34 | 13.33 | 18.70 |
| Aggressive Shift Logic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.17 | 0.43 | 0.88 | 1.68 | 2.50 | 3.51 |
| 4-Speed Automatic | 83.86 | 83.57 | 83.57 | 83.97 | 83.62 | 83.57 | 83.46 | 83.30 | 83.19 | 82.99 | 82.68 | 82.38 | 82.02 |
| 5-Speed Automatic | 5.97 | 6.07 | 6.17 | 6.10 | 6.29 | 6.49 | 6.92 | 7.05 | 7.20 | 7.39 | 7.65 | 7.80 | 7.98 |
| 6-Speed Automatic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.08 | 0.20 | 0.36 | 0.60 |
| 6-Speed Manual | 0.00 | 0.02 | 0.11 | 0.22 | 0.37 | 0.59 | 0.96 | 1.27 | 1.44 | 1.71 | 2.08 | 2.29 | 2.56 |
| CVT | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.06 | 0.12 | 0.19 |
| Automated Manual Trans | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.14 |
| Roller Cam | 77.30 | 78.89 | 80.98 | 82.74 | 84.55 | 86.24 | 88.92 | 90.92 | 92.40 | 94.42 | 96.47 | 97.29 | 98.16 |
| OHC/AdvOHV-4 Cylinder | 3.16 | 2.95 | 2.89 | 2.66 | 2.73 | 2.57 | 2.34 | 2.30 | 2.26 | 2.24 | 2.25 | 2.27 | 2.20 |
| OHC/AdvOHV-6 Cylinder | 39.04 | 40.21 | 40.28 | 40.55 | 40.12 | 40.16 | 39.85 | 39.71 | 39.60 | 39.44 | 39.11 | 38.89 | 38.73 |
| OHC/AdvOHV-8 Cylinder | 25.26 | 25.29 | 25.21 | 25.10 | 25.11 | 24.93 | 24.88 | 24.68 | 24.59 | 24.45 | 24.32 | 24.24 | 24.09 |
| 4-Valve/4-Cylinder | 6.35 | 6.78 | 6.78 | 6.67 | 6.82 | 6.96 | 7.06 | 7.18 | 7.22 | 7.24 | 7.24 | 7.26 | 7.30 |
| 4-Valve/6-Cylinder | 8.05 | 8.10 | 8.18 | 8.27 | 8.54 | 8.98 | 9.42 | 9.85 | 10.07 | 10.43 | 10.92 | 11.22 | 11.59 |
| 4-Valve/8-Cylinder | 3.55 | 3.58 | 3.65 | 3.74 | 3.89 | 4.15 | 4.37 | 4.59 | 4.74 | 4.96 | 5.23 | 5.42 | 5.69 |
| 5-Valve/6-Cylinder | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VVT-4 Cylinder | 0.00 | 0.27 | 1.34 | 2.76 | 5.19 | 6.69 | 7.54 | 8.37 | 8.68 | 9.41 | 9.49 | 9.53 | 9.50 |
| VVT-6 Cylinder | 0.00 | 0.06 | 0.21 | 0.41 | 0.78 | 1.33 | 2.27 | 3.13 | 3.50 | 4.19 | 5.08 | 5.50 | 6.13 |
| VVT-8 Cylinder | 0.00 | 0.05 | 0.16 | 0.27 | 0.48 | 0.83 | 1.48 | 2.09 | 2.35 | 2.86 | 3.61 | 4.04 | 4.62 |
| VVL-4 Cylinder | 0.00 | 0.00 | 0.04 | 0.09 | 0.26 | 0.49 | 0.90 | 1.33 | 1.59 | 1.96 | 2.44 | 2.77 | 3.10 |
| VVL-6 Cylinder | 0.00 | 0.04 | 0.15 | 0.28 | 0.54 | 0.90 | 1.39 | 1.82 | 2.09 | 2.49 | 2.99 | 3.29 | 3.69 |
| VVL-8 Cylinder | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.17 | 0.30 | 0.49 | 0.68 | 0.88 |
| Camless Valve Actuation-4cyl | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Camless Valve Actuation-6cyl | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| Camless Valve Actuation-8cyl | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 |
| Cylinder Deactivation | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.10 | 0.27 | 0.52 | 0.85 | 1.30 | 1.89 | 2.37 | 2.95 |
| Turbocharging/Supercharging | 0.00 | 0.02 | 0.07 | 0.15 | 0.27 | 0.43 | 0.59 | 0.75 | 0.88 | 1.03 | 1.19 | 1.30 | 1.43 |
| Engine Friction Reduction I | 39.84 | 45.36 | 55.45 | 55.27 | 56.05 | 59.25 | 71.19 | 72.97 | 72.35 | 71.66 | 70.23 | 68.30 | 64.92 |
| Engine Friction Reduction II | 0.00 | 0.13 | 0.75 | 1.48 | 2.66 | 4.80 | 11.48 | 17.59 | 19.80 | 22.58 | 27.58 | 29.46 | 33.06 |
| Engine Friction Reduction III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.20 | 0.59 |
| Engine Friction Reduction IV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Stoichiometric GDI/4-Cylinder | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 | 0.15 | 0.27 | 0.46 |
| Stoichiometric GDI/6-Cylinder | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | 0.20 |
| Lean Burn GDI | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.10 | 0.24 |
| 5W-30 Engine Oil | 37.13 | 37.19 | 38.00 | 37.91 | 37.95 | 37.85 | 40.01 | 40.69 | 40.64 | 40.46 | 40.47 | 40.33 | 40.11 |
| 5W-20 Engine Oil | 0.00 | 0.00 | 0.00 | 0.08 | 0.28 | 0.87 | 2.92 | 6.34 | 8.84 | 12.74 | 18.35 | 21.31 | 24.87 |

**Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0W-20 Engine Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electric Power Steering | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.10 | 0.28 | 0.53 | 0.96 | 1.59 | 2.22 | 3.06 |
| Improved Alternator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.12 | 0.30 | 0.52 | 0.89 | 1.34 | 1.73 | 2.19 |
| Improved Oil/Water Pump | 0.00 | 0.11 | 0.61 | 1.20 | 2.13 | 3.81 | 9.18 | 14.41 | 16.20 | 19.10 | 23.52 | 25.14 | 28.01 |
| Electric Oil/Water Pump | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.10 | 0.23 | 0.43 | 0.73 |
| Tires II | 35.57 | 36.18 | 44.75 | 44.90 | 44.86 | 46.52 | 58.94 | 62.78 | 62.78 | 63.23 | 64.93 | 64.90 | 64.84 |
| Tires III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.33 | 1.14 | 2.29 | 4.50 | 8.25 | 11.61 | 15.96 |
| Tires IV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Front Wheel Drive | 16.01 | 15.25 | 15.47 | 16.64 | 15.81 | 15.94 | 15.79 | 15.96 | 15.97 | 16.11 | 16.05 | 15.93 | 16.00 |
| Four Wheel Drive Improvements | 0.00 | 0.03 | 0.13 | 0.26 | 0.46 | 0.78 | 1.34 | 1.94 | 2.23 | 2.70 | 3.31 | 3.65 | 4.12 |
| 42V-Launch Assist and Regen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.17 | 0.29 | 0.47 | 0.66 | 0.85 |
| 42V-Engine Off at Idle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.07 | 0.17 | 0.29 | 0.47 | 0.66 | 0.85 | 1.04 |
| Tier 2 Emissions Technology | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.33 | 66.67 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Increased Size/Weight | 0.00 | 5.00 | 10.00 | 15.00 | 20.00 | 25.00 | 30.00 | 35.00 | 40.00 | 45.00 | 50.00 | 55.00 | 60.00 |
| Variable Compression Ratio | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Light-Duty Vehicle Total | | | | | | | | | | | | | |
| Unit Body Construction | 58.97 | 58.44 | 58.52 | 58.93 | 58.19 | 58.05 | 58.12 | 58.05 | 57.90 | 57.91 | 57.93 | 57.79 | 57.82 |
| Material Substitution II | 40.88 | 40.92 | 40.86 | 40.73 | 40.73 | 40.68 | 40.67 | 40.78 | 40.77 | 40.81 | 40.91 | 40.96 | 41.02 |
| Material Substitution III | 0.00 | 0.02 | 0.15 | 0.31 | 0.56 | 0.93 | 1.70 | 2.32 | 2.61 | 3.12 | 3.86 | 4.28 | 4.82 |
| Material Substitution IV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.14 | 0.24 | 0.39 | 0.57 | 0.79 |
| Material Substitution V | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Drag Reduction II | 44.18 | 44.25 | 45.97 | 45.82 | 45.90 | 45.97 | 49.89 | 51.28 | 51.37 | 51.78 | 52.49 | 52.73 | 52.68 |
| Drag Reduction III | 0.08 | 0.17 | 0.61 | 1.09 | 1.83 | 3.06 | 6.85 | 10.47 | 11.67 | 14.01 | 17.38 | 18.75 | 21.18 |
| Drag Reduction IV | 0.00 | 0.00 | 0.03 | 0.11 | 0.27 | 0.50 | 1.09 | 1.71 | 2.16 | 2.96 | 4.29 | 5.43 | 6.85 |
| Drag Reduction V | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.08 | 0.22 |
| Roll-Over Technology | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.02 | 50.00 | 75.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Side Impact Technology | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.02 | 50.00 | 75.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Advanced Low Loss Torque Converter | 3.12 | 3.87 | 5.93 | 5.88 | 6.24 | 7.29 | 12.41 | 16.63 | 19.34 | 23.75 | 29.08 | 33.00 | 37.16 |
| Early Torque Converter Lockup | 0.00 | 0.00 | 0.06 | 0.20 | 0.54 | 1.07 | 2.83 | 4.94 | 6.25 | 8.84 | 13.21 | 16.76 | 20.23 |
| Aggressive Shift Logic | 1.57 | 1.59 | 1.61 | 1.62 | 1.68 | 1.79 | 2.08 | 2.41 | 2.64 | 3.07 | 3.79 | 4.36 | 5.08 |
| 4-Speed Automatic | 76.95 | 77.19 | 77.09 | 76.71 | 76.88 | 76.72 | 76.36 | 76.07 | 75.76 | 75.19 | 74.32 | 73.52 | 72.33 |
| 5-Speed Automatic | 6.97 | 7.07 | 7.12 | 7.02 | 7.19 | 7.33 | 7.60 | 7.73 | 7.84 | 7.98 | 8.17 | 8.29 | 8.42 |
| 6-Speed Automatic | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.12 | 0.21 | 0.30 | 0.43 | 0.60 | 0.80 | 1.03 |
| 6-Speed Manual | 0.52 | 0.54 | 0.64 | 0.73 | 0.86 | 1.07 | 1.45 | 1.75 | 1.92 | 2.19 | 2.49 | 2.64 | 2.84 |
| CVT | 0.02 | 0.03 | 0.09 | 0.15 | 0.24 | 0.38 | 0.59 | 0.76 | 0.88 | 1.07 | 1.30 | 1.45 | 1.65 |
| Automated Manual Trans | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.20 | 0.48 | 1.03 | 1.70 | 2.74 |
| Roller Cam | 81.33 | 83.28 | 87.48 | 88.18 | 89.06 | 89.85 | 91.17 | 92.16 | 92.88 | 93.88 | 94.92 | 95.34 | 95.77 |
| OHC/AdvOHV-4 Cylinder | 3.37 | 3.25 | 3.21 | 3.15 | 3.16 | 3.07 | 2.96 | 2.94 | 2.91 | 2.91 | 2.91 | 2.91 | 2.88 |
| OHC/AdvOHV-6 Cylinder | 20.87 | 21.49 | 21.56 | 21.75 | 21.69 | 21.73 | 21.56 | 21.47 | 21.39 | 21.29 | 21.13 | 21.04 | 20.98 |
| OHC/AdvOHV-8 Cylinder | 13.35 | 13.47 | 13.45 | 13.37 | 13.55 | 13.54 | 13.57 | 13.53 | 13.53 | 13.49 | 13.47 | 13.47 | 13.41 |
| 4-Valve/4-Cylinder | 28.73 | 28.22 | 28.29 | 29.07 | 28.32 | 28.29 | 28.36 | 28.25 | 28.18 | 28.17 | 28.06 | 27.92 | 27.96 |
| 4-Valve/6-Cylinder | 16.28 | 16.34 | 16.01 | 15.59 | 15.98 | 16.20 | 16.43 | 16.76 | 16.93 | 17.14 | 17.44 | 17.64 | 17.80 |
| 4-Valve/8-Cylinder | 6.16 | 6.36 | 6.38 | 6.13 | 6.39 | 6.57 | 6.71 | 6.92 | 7.06 | 7.17 | 7.31 | 7.42 | 7.54 |
| 5-Valve/6-Cylinder | 0.63 | 0.87 | 1.16 | 1.13 | 1.15 | 1.14 | 1.13 | 1.13 | 1.12 | 1.12 | 1.12 | 1.12 | 1.11 |
| VVT-4 Cylinder | 7.65 | 9.38 | 12.42 | 15.45 | 19.36 | 22.67 | 25.33 | 27.48 | 28.28 | 29.15 | 29.47 | 29.35 | 29.40 |
| VVT-6 Cylinder | 1.79 | 1.87 | 2.02 | 2.07 | 2.43 | 2.88 | 3.56 | 4.26 | 4.64 | 5.13 | 5.71 | 6.00 | 6.38 |
| VVT-8 Cylinder | 0.21 | 0.28 | 0.44 | 0.60 | 0.94 | 1.23 | 1.69 | 2.14 | 2.36 | 2.68 | 3.12 | 3.37 | 3.67 |
| VVL-4 Cylinder | 3.52 | 3.49 | 3.51 | 3.60 | 3.71 | 3.95 | 4.33 | 4.75 | 5.04 | 5.34 | 5.66 | 5.88 | 6.07 |
| VVL-6 Cylinder | 0.21 | 0.24 | 0.36 | 0.54 | 0.83 | 1.21 | 1.66 | 2.08 | 2.37 | 2.72 | 3.09 | 3.31 | 3.57 |
| VVL-8 Cylinder | 0.58 | 0.62 | 0.68 | 0.70 | 0.82 | 0.91 | 1.01 | 1.11 | 1.17 | 1.23 | 1.31 | 1.40 | 1.46 |
| Camless Valve Actuation-4cyl | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.13 | 0.22 |
| Camless Valve Actuation-6cyl | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.12 | 0.21 | 0.35 |
| Camless Valve Actuation-8cyl | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 | 0.11 | 0.18 | 0.27 | 0.39 |
| Cylinder Deactivation | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.12 | 0.32 | 0.58 | 0.88 | 1.26 | 1.68 | 2.01 | 2.42 |
| Turbocharging/Supercharging | 0.00 | 0.02 | 0.11 | 0.22 | 0.39 | 0.59 | 0.79 | 0.99 | 1.17 | 1.35 | 1.52 | 1.63 | 1.75 |
| Engine Friction Reduction I | 53.82 | 56.96 | 62.88 | 62.78 | 63.06 | 64.54 | 70.17 | 71.00 | 70.69 | 70.34 | 69.51 | 68.44 | 66.58 |
| Engine Friction Reduction II | 10.23 | 10.43 | 10.91 | 11.24 | 12.42 | 13.98 | 17.89 | 21.46 | 22.69 | 24.34 | 27.50 | 28.51 | 30.46 |
| Engine Friction Reduction III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.10 | 0.30 | 0.59 | 1.10 |

**Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Engine Friction Reduction IV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Stoichiometric GDI/4-Cylinder | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.14 | 0.26 | 0.43 | 0.62 | 0.85 |
| Stoichiometric GDI/6-Cylinder | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.12 | 0.21 | 0.34 | 0.49 | 0.67 |
| Lean Burn GDI | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.15 | 0.27 | 0.45 | 0.64 | 0.89 |
| 5W-30 Engine Oil | 38.72 | 38.86 | 39.23 | 39.00 | 39.11 | 39.05 | 40.06 | 40.39 | 40.37 | 40.26 | 40.26 | 40.19 | 40.06 |
| 5W-20 Engine Oil | 0.00 | 0.00 | 0.00 | 0.07 | 0.26 | 0.78 | 2.38 | 4.87 | 6.62 | 9.36 | 13.38 | 15.71 | 18.64 |
| 0W-20 Engine Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electric Power Steering | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.09 | 0.27 | 0.56 | 0.90 | 1.42 | 2.16 | 2.83 | 3.71 |
| Improved Alternator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.13 | 0.31 | 0.53 | 0.86 | 1.26 | 1.61 | 2.02 |
| Improved Oil/Water Pump | 0.00 | 0.09 | 0.51 | 1.01 | 1.76 | 3.01 | 6.86 | 10.53 | 11.73 | 13.95 | 17.48 | 18.89 | 21.20 |
| Electric Oil/Water Pump | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.07 | 0.18 | 0.35 | 0.58 | 0.88 |
| Tires II | 44.68 | 45.19 | 49.17 | 48.84 | 49.00 | 49.76 | 55.80 | 57.78 | 57.80 | 58.00 | 58.84 | 58.85 | 58.79 |
| Tires III | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.30 | 1.00 | 1.90 | 3.56 | 6.25 | 8.65 | 11.74 |
| Tires IV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Front Wheel Drive | 51.68 | 51.31 | 51.35 | 51.49 | 50.86 | 50.68 | 50.40 | 50.31 | 50.17 | 50.11 | 49.98 | 49.82 | 49.78 |
| Four Wheel Drive Improvements | 0.00 | 0.02 | 0.13 | 0.25 | 0.42 | 0.65 | 1.06 | 1.49 | 1.68 | 1.97 | 2.36 | 2.56 | 2.83 |
| 42V-Launch Assist and Regen | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.08 | 0.19 | 0.32 | 0.50 | 0.69 | 0.87 |
| 42V-Engine Off at Idle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.08 | 0.19 | 0.32 | 0.50 | 0.69 | 0.87 | 1.06 |
| Tier 2 Emissions Technology | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.33 | 66.67 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| Increased Size/Weight | 0.00 | 5.00 | 10.00 | 15.00 | 20.00 | 25.00 | 30.00 | 35.00 | 40.00 | 45.00 | 50.00 | 55.00 | 60.00 |
| Variable Compression Ratio | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 56. Technology Market Penetration in Light-Duty Vehicles**
**(Percentage)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Car | | | | | | | | | | | | | | |
| Unit Body Construction | 93.33 | 93.37 | 93.36 | 93.39 | 93.45 | 93.39 | 93.38 | 93.38 | 93.37 | 93.40 | 93.43 | 93.41 | 93.51 | 0.0% |
| Material Substitution II | 49.90 | 49.89 | 49.89 | 49.88 | 49.87 | 49.87 | 49.87 | 49.86 | 49.86 | 49.85 | 49.85 | 49.85 | 49.84 | 0.0% |
| Material Substitution III | 5.77 | 6.10 | 6.26 | 6.42 | 6.55 | 6.55 | 6.55 | 6.56 | 6.61 | 6.62 | 6.65 | 6.65 | 6.65 | 23.4% |
| Material Substitution IV | 1.69 | 2.02 | 2.36 | 2.65 | 2.94 | 3.16 | 3.39 | 3.53 | 3.69 | 3.81 | 3.85 | 3.87 | 3.87 | N/A |
| Material Substitution V | 0.00 | 0.02 | 0.11 | 0.24 | 0.41 | 0.64 | 0.88 | 1.13 | 1.40 | 1.67 | 1.95 | 2.18 | 2.41 | N/A |
| Drag Reduction II | 53.05 | 52.39 | 51.88 | 51.53 | 51.17 | 50.87 | 50.59 | 50.31 | 50.01 | 49.81 | 49.61 | 49.54 | 49.46 | -0.4% |
| Drag Reduction III | 16.19 | 17.23 | 17.60 | 17.77 | 17.89 | 17.91 | 17.92 | 17.97 | 18.06 | 18.08 | 18.10 | 18.11 | 18.07 | 20.1% |
| Drag Reduction IV | 8.91 | 9.50 | 10.15 | 10.48 | 10.77 | 11.00 | 11.02 | 11.15 | 11.30 | 11.34 | 11.40 | 11.41 | 11.39 | N/A |
| Drag Reduction V | 0.79 | 1.28 | 1.83 | 2.41 | 3.02 | 3.65 | 4.31 | 4.95 | 5.61 | 6.11 | 6.60 | 6.83 | 7.01 | N/A |
| Roll-Over Technology | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | N/A |
| Side Impact Technology | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | N/A |
| Advanced Low Loss Torque Converter | 46.52 | 49.27 | 50.34 | 51.68 | 52.66 | 52.71 | 52.72 | 52.99 | 53.50 | 53.61 | 53.78 | 53.80 | 53.73 | 8.7% |
| Early Torque Converter Lockup | 24.69 | 26.41 | 27.84 | 28.49 | 29.01 | 29.50 | 29.55 | 29.94 | 30.42 | 30.56 | 30.77 | 30.79 | 30.71 | N/A |
| Aggressive Shift Logic | 7.09 | 7.46 | 7.64 | 7.82 | 7.96 | 7.97 | 7.97 | 8.00 | 8.06 | 8.07 | 8.09 | 8.09 | 8.08 | 4.3% |
| 4-Speed Automatic | 61.55 | 60.50 | 58.97 | 58.58 | 58.17 | 58.19 | 58.05 | 57.91 | 57.82 | 57.72 | 57.59 | 57.61 | 57.41 | -0.9% |
| 5-Speed Automatic | 8.96 | 9.06 | 9.10 | 9.16 | 9.19 | 9.19 | 9.17 | 9.18 | 9.19 | 9.18 | 9.17 | 9.18 | 9.16 | 0.6% |
| 6-Speed Automatic | 1.69 | 1.84 | 2.00 | 2.09 | 2.19 | 2.23 | 2.36 | 2.43 | 2.46 | 2.46 | 2.46 | 2.46 | 2.45 | N/A |
| 6-Speed Manual | 3.20 | 3.27 | 3.30 | 3.33 | 3.36 | 3.36 | 3.35 | 3.36 | 3.36 | 3.36 | 3.37 | 3.37 | 3.38 | 5.2% |
| CVT | 3.58 | 3.80 | 3.93 | 4.06 | 4.16 | 4.17 | 4.19 | 4.26 | 4.34 | 4.38 | 4.43 | 4.45 | 4.46 | 19.7% |
| Automated Manual Trans | 7.02 | 8.85 | 10.11 | 10.18 | 10.30 | 10.29 | 10.31 | 10.31 | 10.30 | 10.33 | 10.36 | 10.34 | 10.44 | N/A |
| Roller Cam | 93.46 | 93.45 | 93.45 | 93.45 | 93.44 | 93.45 | 93.45 | 93.45 | 93.45 | 93.45 | 93.44 | 93.45 | 93.43 | 0.3% |
| OHC/AdvOHV-4 Cylinder | 3.54 | 3.54 | 3.54 | 3.54 | 3.55 | 3.54 | 3.54 | 3.54 | 3.55 | 3.55 | 3.55 | 3.55 | 3.56 | 0.1% |
| OHC/AdvOHV-6 Cylinder | 3.69 | 3.68 | 3.68 | 3.67 | 3.65 | 3.67 | 3.68 | 3.68 | 3.68 | 3.67 | 3.66 | 3.67 | 3.63 | -1.5% |
| OHC/AdvOHV-8 Cylinder | 3.03 | 3.01 | 3.01 | 3.00 | 2.98 | 3.00 | 3.00 | 3.00 | 3.00 | 2.99 | 2.98 | 2.99 | 2.95 | -0.3% |
| 4-Valve/4-Cylinder | 47.99 | 48.12 | 48.08 | 48.15 | 48.33 | 48.16 | 48.11 | 48.11 | 48.08 | 48.16 | 48.26 | 48.20 | 48.48 | 0.1% |
| 4-Valve/6-Cylinder | 23.89 | 23.85 | 23.86 | 23.83 | 23.77 | 23.83 | 23.85 | 23.85 | 23.86 | 23.83 | 23.80 | 23.82 | 23.72 | 0.0% |
| 4-Valve/8-Cylinder | 9.35 | 9.32 | 9.33 | 9.32 | 9.27 | 9.31 | 9.33 | 9.32 | 9.33 | 9.31 | 9.29 | 9.30 | 9.24 | 0.2% |
| 5-Valve/6-Cylinder | 2.20 | 2.19 | 2.20 | 2.19 | 2.19 | 2.19 | 2.20 | 2.20 | 2.20 | 2.19 | 2.19 | 2.19 | 2.19 | 1.2% |
| VVT-4 Cylinder | 48.51 | 48.44 | 48.20 | 47.98 | 47.90 | 47.48 | 47.24 | 47.01 | 46.81 | 46.75 | 46.75 | 46.42 | 46.59 | 4.2% |
| VVT-6 Cylinder | 6.76 | 6.84 | 6.87 | 6.92 | 6.96 | 6.96 | 6.96 | 6.97 | 6.99 | 6.98 | 6.99 | 6.99 | 6.98 | 3.0% |
| VVT-8 Cylinder | 2.80 | 2.79 | 2.79 | 2.84 | 2.90 | 2.91 | 2.92 | 2.93 | 2.96 | 2.94 | 2.91 | 2.91 | 2.89 | 7.8% |
| VVL-4 Cylinder | 9.02 | 9.04 | 9.03 | 9.06 | 9.10 | 9.08 | 9.08 | 9.08 | 9.09 | 9.10 | 9.11 | 9.11 | 9.13 | 1.4% |
| VVL-6 Cylinder | 3.58 | 3.66 | 3.66 | 3.70 | 3.72 | 3.72 | 3.71 | 3.71 | 3.71 | 3.71 | 3.71 | 3.70 | 3.70 | 9.7% |
| VVL-8 Cylinder | 1.99 | 1.91 | 1.85 | 1.83 | 1.84 | 1.85 | 1.85 | 1.86 | 1.86 | 1.86 | 1.85 | 1.86 | 1.84 | 2.0% |
| Camless Valve Actuation-4cyl | 0.68 | 0.95 | 1.23 | 1.60 | 1.94 | 2.28 | 2.56 | 2.87 | 3.12 | 3.35 | 3.49 | 3.88 | 4.02 | N/A |
| Camless Valve Actuation-6cyl | 0.92 | 1.19 | 1.52 | 1.82 | 2.13 | 2.38 | 2.64 | 2.87 | 3.09 | 3.20 | 3.50 | 3.62 | 3.64 | N/A |
| Camless Valve Actuation-8cyl | 0.89 | 1.11 | 1.29 | 1.44 | 1.55 | 1.66 | 1.78 | 1.90 | 1.97 | 2.09 | 2.15 | 2.16 | 2.15 | N/A |
| Cylinder Deactivation | 2.15 | 2.35 | 2.58 | 2.80 | 3.02 | 3.13 | 3.24 | 3.37 | 3.42 | 3.42 | 3.43 | 3.43 | 3.42 | N/A |
| Turbocharging/Supercharging | 2.15 | 2.23 | 2.24 | 2.26 | 2.29 | 2.28 | 2.28 | 2.28 | 2.29 | 2.29 | 2.29 | 2.29 | 2.30 | 20.5% |
| Engine Friction Reduction I | 67.58 | 67.03 | 66.38 | 65.58 | 64.67 | 63.79 | 62.86 | 61.86 | 60.79 | 60.00 | 59.17 | 58.44 | 57.95 | -0.6% |
| Engine Friction Reduction II | 28.29 | 28.43 | 28.52 | 28.59 | 28.62 | 28.64 | 28.65 | 28.67 | 28.71 | 28.71 | 28.71 | 28.72 | 28.68 | 1.6% |
| Engine Friction Reduction III | 2.33 | 3.07 | 3.87 | 4.72 | 5.59 | 6.30 | 7.01 | 7.69 | 8.40 | 8.76 | 9.12 | 9.34 | 9.34 | N/A |
| Engine Friction Reduction IV | 0.00 | 0.00 | 0.00 | 0.03 | 0.16 | 0.40 | 0.72 | 1.16 | 1.67 | 2.22 | 2.80 | 3.40 | 3.98 | N/A |
| Stoichiometric GDI/4-Cylinder | 1.62 | 1.95 | 2.29 | 2.57 | 2.85 | 3.05 | 3.26 | 3.40 | 3.81 | 3.98 | 4.06 | 4.08 | 4.09 | N/A |
| Stoichiometric GDI/6-Cylinder | 1.44 | 1.71 | 1.99 | 2.22 | 2.46 | 2.64 | 2.82 | 2.92 | 3.18 | 3.29 | 3.32 | 3.33 | 3.33 | N/A |
| Lean Burn GDI | 1.89 | 2.23 | 2.58 | 2.88 | 3.16 | 3.38 | 3.59 | 3.72 | 3.90 | 4.00 | 4.03 | 4.03 | 4.03 | N/A |
| 5W-30 Engine Oil | 39.99 | 39.95 | 39.96 | 39.94 | 39.91 | 39.93 | 39.93 | 39.92 | 39.92 | 39.90 | 39.88 | 39.89 | 39.85 | 0.0% |
| 5W-20 Engine Oil | 14.90 | 16.28 | 17.59 | 18.53 | 18.76 | 19.00 | 19.26 | 19.51 | 19.81 | 19.90 | 20.01 | 20.01 | 19.98 | N/A |
| 0W-20 Engine Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electric Power Steering | 5.43 | 6.25 | 7.13 | 7.89 | 8.63 | 9.09 | 9.57 | 10.20 | 10.68 | 10.95 | 11.22 | 11.37 | 11.36 | N/A |
| Improved Alternator | 2.22 | 2.56 | 2.84 | 3.12 | 3.34 | 3.55 | 3.64 | 3.78 | 3.90 | 3.91 | 3.92 | 3.93 | 3.92 | N/A |
| Improved Oil/Water Pump | 16.31 | 17.37 | 17.75 | 17.93 | 18.05 | 18.07 | 18.08 | 18.13 | 18.23 | 18.24 | 18.27 | 18.27 | 18.24 | 26.3% |
| Electric Oil/Water Pump | 1.34 | 1.65 | 1.98 | 2.32 | 2.61 | 2.89 | 3.12 | 3.38 | 3.53 | 3.66 | 3.78 | 3.81 | 3.81 | N/A |
| Tires II | 52.90 | 52.82 | 52.80 | 52.74 | 52.64 | 52.69 | 52.69 | 52.66 | 52.63 | 52.58 | 52.51 | 52.51 | 52.32 | -0.1% |

**Table 56. Technology Market Penetration in Light-Duty Vehicles**
**(Percentage)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tires III | 9.79 | 11.62 | 13.27 | 14.92 | 16.18 | 17.43 | 17.93 | 18.31 | 18.75 | 18.89 | 19.00 | 19.01 | 18.98 | N/A |
| Tires IV | 0.00 | 0.00 | 0.04 | 0.20 | 0.53 | 1.02 | 1.71 | 2.57 | 3.56 | 4.60 | 5.74 | 6.91 | 7.84 | N/A |
| Front Wheel Drive | 82.64 | 82.64 | 82.65 | 82.64 | 82.63 | 82.64 | 82.64 | 82.64 | 82.64 | 82.64 | 82.63 | 82.63 | 82.62 | 0.0% |
| Four Wheel Drive Improvements | 1.58 | 1.58 | 1.64 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.66 | 1.66 | 1.67 | 1.67 | 1.67 | 21.3% |
| 42V-Launch Assist and Regen | 1.08 | 1.27 | 1.46 | 1.61 | 1.76 | 1.88 | 1.99 | 2.04 | 2.10 | 2.15 | 2.16 | 2.16 | 2.16 | N/A |
| 42V-Engine Off at Idle | 1.27 | 1.46 | 1.61 | 1.76 | 1.88 | 1.99 | 2.04 | 2.10 | 2.15 | 2.16 | 2.16 | 2.16 | 2.16 | N/A |
| Tier 2 Emissions Technology | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | N/A |
| Increased Size/Weight | 65.00 | 70.00 | 75.00 | 80.00 | 85.00 | 90.00 | 95.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 13.3% |
| Variable Compression Ratio | 0.00 | 0.00 | 0.02 | 0.10 | 0.22 | 0.37 | 0.56 | 0.76 | 0.97 | 1.20 | 1.42 | 1.64 | 1.81 | N/A |
| Light Truck | | | | | | | | | | | | | | |
| Unit Body Construction | 21.34 | 21.39 | 21.36 | 21.39 | 21.47 | 21.39 | 21.36 | 21.34 | 21.32 | 21.36 | 21.42 | 21.40 | 21.51 | 0.6% |
| Material Substitution II | 32.11 | 32.24 | 32.32 | 32.38 | 32.39 | 32.40 | 32.40 | 32.41 | 32.41 | 32.40 | 32.38 | 32.39 | 32.37 | 0.2% |
| Material Substitution III | 4.92 | 5.29 | 5.69 | 5.86 | 6.02 | 6.13 | 6.13 | 6.14 | 6.16 | 6.16 | 6.16 | 6.16 | 6.16 | N/A |
| Material Substitution IV | 0.38 | 0.63 | 0.90 | 1.18 | 1.48 | 1.78 | 2.09 | 2.39 | 2.70 | 2.96 | 3.23 | 3.36 | 3.48 | N/A |
| Material Substitution V | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 | 0.13 | 0.23 | 0.37 | 0.52 | 0.68 | 0.84 | N/A |
| Drag Reduction II | 50.96 | 48.85 | 47.28 | 45.64 | 44.27 | 43.12 | 42.29 | 41.39 | 40.10 | 39.29 | 38.64 | 37.99 | 37.37 | 0.6% |
| Drag Reduction III | 30.78 | 32.83 | 33.84 | 34.86 | 35.39 | 35.40 | 35.40 | 35.40 | 35.46 | 35.46 | 35.46 | 35.46 | 35.46 | 27.4% |
| Drag Reduction IV | 8.07 | 9.96 | 11.96 | 13.93 | 15.85 | 17.18 | 18.08 | 18.94 | 20.15 | 20.72 | 20.96 | 20.96 | 20.96 | N/A |
| Drag Reduction V | 0.00 | 0.03 | 0.10 | 0.28 | 0.56 | 0.99 | 1.50 | 2.11 | 2.80 | 3.50 | 4.27 | 4.95 | 5.59 | N/A |
| Roll-Over Technology | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | N/A |
| Side Impact Technology | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | N/A |
| Advanced Low Loss Torque Converter | 37.81 | 43.65 | 49.15 | 54.50 | 58.97 | 63.47 | 65.46 | 68.29 | 70.69 | 70.81 | 70.85 | 70.85 | 70.85 | N/A |
| Early Torque Converter Lockup | 24.25 | 28.41 | 32.52 | 36.87 | 41.23 | 45.09 | 48.96 | 51.43 | 53.95 | 55.53 | 55.78 | 55.78 | 55.78 | N/A |
| Aggressive Shift Logic | 4.65 | 5.67 | 6.75 | 7.78 | 8.78 | 9.66 | 10.57 | 11.28 | 12.02 | 12.47 | 12.63 | 12.63 | 12.63 | N/A |
| 4-Speed Automatic | 81.52 | 80.95 | 80.18 | 79.08 | 77.73 | 76.94 | 76.04 | 75.06 | 74.04 | 73.45 | 72.97 | 72.74 | 72.84 | -0.6% |
| 5-Speed Automatic | 8.15 | 8.28 | 8.34 | 8.40 | 8.43 | 8.44 | 8.44 | 8.44 | 8.44 | 8.44 | 8.44 | 8.44 | 8.42 | 1.4% |
| 6-Speed Automatic | 0.86 | 1.12 | 1.46 | 1.76 | 2.05 | 2.31 | 2.58 | 2.84 | 3.10 | 3.21 | 3.57 | 3.69 | 3.69 | N/A |
| 6-Speed Manual | 2.82 | 3.01 | 3.10 | 3.19 | 3.25 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.25 | 22.5% |
| CVT | 0.28 | 0.36 | 0.49 | 0.60 | 0.72 | 0.82 | 0.92 | 1.02 | 1.12 | 1.18 | 1.36 | 1.44 | 1.46 | N/A |
| Automated Manual Trans | 0.40 | 0.90 | 1.68 | 2.50 | 3.51 | 3.97 | 4.52 | 5.14 | 5.79 | 6.22 | 6.19 | 6.21 | 6.14 | N/A |
| Roller Cam | 98.22 | 98.22 | 98.22 | 98.22 | 98.22 | 98.22 | 98.22 | 98.22 | 98.22 | 98.22 | 98.22 | 98.22 | 98.22 | 0.9% |
| OHC/AdvOHV-4 Cylinder | 2.12 | 2.04 | 2.02 | 1.99 | 1.96 | 1.98 | 1.98 | 1.98 | 1.99 | 1.98 | 1.97 | 1.98 | 1.95 | -1.7% |
| OHC/AdvOHV-6 Cylinder | 38.57 | 38.48 | 38.42 | 38.38 | 38.37 | 38.33 | 38.32 | 38.31 | 38.30 | 38.32 | 38.34 | 38.34 | 38.39 | -0.2% |
| OHC/AdvOHV-8 Cylinder | 23.94 | 23.82 | 23.78 | 23.72 | 23.67 | 23.69 | 23.69 | 23.70 | 23.70 | 23.70 | 23.69 | 23.69 | 23.68 | -0.3% |
| 4-Valve/4-Cylinder | 7.39 | 7.45 | 7.48 | 7.50 | 7.50 | 7.52 | 7.52 | 7.52 | 7.53 | 7.52 | 7.51 | 7.51 | 7.49 | 0.4% |
| 4-Valve/6-Cylinder | 11.95 | 12.21 | 12.33 | 12.45 | 12.53 | 12.53 | 12.54 | 12.54 | 12.54 | 12.54 | 12.53 | 12.53 | 12.53 | 1.8% |
| 4-Valve/8-Cylinder | 5.97 | 6.19 | 6.29 | 6.39 | 6.46 | 6.46 | 6.46 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.46 | 2.5% |
| 5-Valve/6-Cylinder | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| VVT-4 Cylinder | 9.51 | 9.48 | 9.44 | 9.35 | 9.20 | 9.05 | 8.85 | 8.63 | 8.31 | 8.01 | 7.67 | 7.41 | 7.09 | 14.6% |
| VVT-6 Cylinder | 6.74 | 7.15 | 7.32 | 7.48 | 7.57 | 7.52 | 7.46 | 7.40 | 7.34 | 7.28 | 7.22 | 7.16 | 7.10 | 21.7% |
| VVT-8 Cylinder | 5.23 | 5.66 | 5.87 | 6.08 | 6.20 | 6.21 | 6.21 | 6.21 | 6.22 | 6.22 | 6.21 | 6.21 | 6.19 | 22.1% |
| VVL-4 Cylinder | 3.13 | 3.04 | 2.91 | 2.74 | 2.53 | 2.28 | 1.99 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.69 | N/A |
| VVL-6 Cylinder | 4.07 | 4.32 | 4.36 | 4.39 | 4.37 | 4.28 | 4.16 | 4.05 | 3.95 | 3.95 | 3.95 | 3.95 | 3.95 | 20.6% |
| VVL-8 Cylinder | 1.07 | 1.25 | 1.47 | 1.68 | 1.89 | 2.09 | 2.30 | 2.41 | 2.53 | 2.61 | 2.62 | 2.62 | 2.62 | N/A |
| Camless Valve Actuation-4cyl | 0.00 | 0.02 | 0.06 | 0.14 | 0.27 | 0.45 | 0.65 | 0.88 | 1.20 | 1.49 | 1.80 | 2.08 | 2.34 | N/A |
| Camless Valve Actuation-6cyl | 0.09 | 0.21 | 0.39 | 0.65 | 0.94 | 1.24 | 1.64 | 2.02 | 2.42 | 2.78 | 3.16 | 3.49 | 3.80 | N/A |
| Camless Valve Actuation-8cyl | 0.14 | 0.26 | 0.41 | 0.58 | 0.75 | 0.96 | 1.16 | 1.38 | 1.59 | 1.81 | 2.02 | 2.24 | 2.33 | N/A |
| Cylinder Deactivation | 3.59 | 4.09 | 4.63 | 5.17 | 5.69 | 5.92 | 6.16 | 6.47 | 6.60 | 6.60 | 6.60 | 6.60 | 6.59 | N/A |
| Turbocharging/Supercharging | 1.55 | 1.65 | 1.69 | 1.74 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 20.7% |
| Engine Friction Reduction I | 61.13 | 57.71 | 55.03 | 51.98 | 49.30 | 47.05 | 44.61 | 41.51 | 37.88 | 35.15 | 32.64 | 30.73 | 29.19 | -1.8% |
| Engine Friction Reduction II | 37.03 | 39.83 | 41.03 | 42.29 | 42.98 | 42.98 | 42.98 | 42.99 | 43.07 | 43.07 | 43.07 | 43.07 | 43.04 | 27.4% |
| Engine Friction Reduction III | 1.32 | 2.46 | 3.95 | 5.68 | 7.56 | 9.54 | 11.54 | 13.91 | 16.54 | 18.24 | 19.60 | 20.33 | 20.73 | N/A |
| Engine Friction Reduction IV | 0.00 | 0.00 | 0.00 | 0.04 | 0.16 | 0.43 | 0.87 | 1.59 | 2.51 | 3.54 | 4.68 | 5.87 | 7.04 | N/A |
| Stoichiometric GDI/4-Cylinder | 0.68 | 0.90 | 1.21 | 1.50 | 1.79 | 2.06 | 2.33 | 2.57 | 2.46 | 2.32 | 2.30 | 2.17 | 1.99 | N/A |
| Stoichiometric GDI/6-Cylinder | 0.37 | 0.61 | 0.88 | 1.16 | 1.52 | 1.84 | 2.17 | 2.50 | 2.82 | 2.99 | 3.17 | 3.23 | 3.47 | N/A |
| Lean Burn GDI | 0.47 | 0.79 | 1.14 | 1.51 | 1.92 | 2.32 | 2.74 | 3.15 | 3.55 | 3.79 | 4.03 | 4.11 | 4.25 | N/A |
| 5W-30 Engine Oil | 39.99 | 39.92 | 39.92 | 39.92 | 39.90 | 39.75 | 39.52 | 39.45 | 39.39 | 39.39 | 39.38 | 39.38 | 39.37 | 0.2% |
| 5W-20 Engine Oil | 28.31 | 30.34 | 32.79 | 35.66 | 36.95 | 37.98 | 38.87 | 39.52 | 39.87 | 39.88 | 39.89 | 39.89 | 39.88 | N/A |

**Table 56. Technology Market Penetration in Light-Duty Vehicles (Percentage)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0W-20 Engine Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electric Power Steering | 4.08 | 5.05 | 6.04 | 7.10 | 8.05 | 9.00 | 9.67 | 10.57 | 11.49 | 11.73 | 11.95 | 12.05 | 12.05 | N/A |
| Improved Alternator | 2.67 | 3.10 | 3.50 | 3.90 | 4.25 | 4.59 | 4.75 | 4.97 | 5.16 | 5.18 | 5.18 | 5.18 | 5.18 | N/A |
| Improved Oil/Water Pump | 30.93 | 33.08 | 34.13 | 35.17 | 35.71 | 35.72 | 35.72 | 35.72 | 35.79 | 35.78 | 35.78 | 35.78 | 35.78 | 27.4% |
| Electric Oil/Water Pump | 1.09 | 1.45 | 1.84 | 2.25 | 2.67 | 3.07 | 3.47 | 3.88 | 4.31 | 4.53 | 4.77 | 4.95 | 4.97 | N/A |
| Tires II | 64.66 | 64.10 | 63.36 | 62.26 | 60.65 | 58.92 | 57.71 | 55.95 | 53.91 | 52.33 | 50.73 | 49.25 | 47.81 | 1.2% |
| Tires III | 20.50 | 22.80 | 24.96 | 27.64 | 29.79 | 32.19 | 33.49 | 35.49 | 37.35 | 37.70 | 37.89 | 37.88 | 37.88 | N/A |
| Tires IV | 0.00 | 0.00 | 0.05 | 0.19 | 0.56 | 1.20 | 2.26 | 3.72 | 5.53 | 7.51 | 9.73 | 11.88 | 13.85 | N/A |
| Front Wheel Drive | 15.97 | 16.05 | 16.01 | 16.06 | 16.18 | 16.06 | 16.03 | 16.01 | 15.98 | 16.04 | 16.12 | 16.09 | 16.27 | 0.3% |
| Four Wheel Drive Improvements | 4.54 | 4.82 | 5.35 | 5.57 | 5.68 | 5.68 | 5.68 | 5.68 | 5.69 | 5.69 | 5.69 | 5.69 | 5.69 | 23.7% |
| 42V-Launch Assist and Regen | 1.04 | 1.24 | 1.43 | 1.60 | 1.78 | 1.93 | 2.07 | 2.14 | 2.22 | 2.28 | 2.29 | 2.29 | 2.29 | N/A |
| 42V-Engine Off at Idle | 1.24 | 1.43 | 1.60 | 1.78 | 1.93 | 2.07 | 2.14 | 2.22 | 2.28 | 2.29 | 2.29 | 2.29 | 2.29 | N/A |
| Tier 2 Emissions Technology | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | N/A |
| Increased Size/Weight | 65.00 | 70.00 | 75.00 | 80.00 | 85.00 | 90.00 | 95.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 13.3% |
| Variable Compression Ratio | 0.00 | 0.00 | 0.01 | 0.06 | 0.14 | 0.25 | 0.39 | 0.54 | 0.70 | 0.89 | 1.06 | 1.23 | 1.37 | N/A |
| | | | | | | | | | | | | | | |
| Light-Duty Vehicle Total | | | | | | | | | | | | | | |
| Unit Body Construction | 57.76 | 57.74 | 57.67 | 57.65 | 57.69 | 57.58 | 57.54 | 57.51 | 57.49 | 57.52 | 57.57 | 57.55 | 57.66 | -0.1% |
| Material Substitution II | 41.11 | 41.16 | 41.18 | 41.19 | 41.19 | 41.18 | 41.17 | 41.17 | 41.17 | 41.16 | 41.15 | 41.15 | 41.14 | 0.0% |
| Material Substitution III | 5.35 | 5.70 | 5.98 | 6.15 | 6.29 | 6.34 | 6.34 | 6.35 | 6.39 | 6.39 | 6.40 | 6.40 | 6.41 | 26.4% |
| Material Substitution IV | 1.04 | 1.33 | 1.63 | 1.92 | 2.21 | 2.47 | 2.74 | 2.96 | 3.19 | 3.38 | 3.54 | 3.62 | 3.68 | N/A |
| Material Substitution V | 0.00 | 0.01 | 0.05 | 0.12 | 0.21 | 0.33 | 0.47 | 0.63 | 0.82 | 1.02 | 1.24 | 1.43 | 1.63 | N/A |
| Drag Reduction II | 52.01 | 50.64 | 49.60 | 48.61 | 47.74 | 47.02 | 46.46 | 45.87 | 45.07 | 44.57 | 44.15 | 43.79 | 43.44 | -0.1% |
| Drag Reduction III | 23.40 | 24.95 | 25.65 | 26.25 | 26.58 | 26.61 | 26.62 | 26.65 | 26.73 | 26.73 | 26.75 | 26.75 | 26.73 | 23.5% |
| Drag Reduction IV | 8.49 | 9.73 | 11.05 | 12.19 | 13.30 | 14.07 | 14.53 | 15.03 | 15.71 | 16.01 | 16.16 | 16.16 | 16.15 | N/A |
| Drag Reduction V | 0.40 | 0.66 | 0.97 | 1.35 | 1.80 | 2.32 | 2.91 | 3.54 | 4.21 | 4.81 | 5.44 | 5.90 | 6.30 | N/A |
| Roll-Over Technology | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | N/A |
| Side Impact Technology | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | N/A |
| Advanced Low Loss Torque Converter | 42.22 | 46.49 | 49.75 | 53.08 | 55.80 | 58.06 | 59.06 | 60.61 | 62.06 | 62.18 | 62.28 | 62.29 | 62.25 | 12.3% |
| Early Torque Converter Lockup | 24.47 | 27.40 | 30.16 | 32.65 | 35.09 | 37.25 | 39.21 | 40.64 | 42.14 | 43.00 | 43.23 | 43.24 | 43.20 | N/A |
| Aggressive Shift Logic | 5.89 | 6.57 | 7.20 | 7.80 | 8.37 | 8.81 | 9.26 | 9.63 | 10.03 | 10.26 | 10.35 | 10.35 | 10.35 | 8.1% |
| 4-Speed Automatic | 71.42 | 70.62 | 69.49 | 68.76 | 67.88 | 67.51 | 67.00 | 66.45 | 65.89 | 65.55 | 65.25 | 65.15 | 65.10 | -0.7% |
| 5-Speed Automatic | 8.56 | 8.67 | 8.72 | 8.78 | 8.81 | 8.82 | 8.81 | 8.81 | 8.81 | 8.81 | 8.81 | 8.81 | 8.79 | 0.9% |
| 6-Speed Automatic | 1.28 | 1.48 | 1.73 | 1.93 | 2.12 | 2.27 | 2.47 | 2.64 | 2.78 | 2.83 | 3.01 | 3.08 | 3.07 | N/A |
| 6-Speed Manual | 3.01 | 3.14 | 3.20 | 3.26 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 3.31 | 7.8% |
| CVT | 1.95 | 2.10 | 2.22 | 2.34 | 2.45 | 2.50 | 2.56 | 2.65 | 2.74 | 2.79 | 2.90 | 2.95 | 2.97 | 20.8% |
| Automated Manual Trans | 3.75 | 4.92 | 5.93 | 6.37 | 6.93 | 7.15 | 7.43 | 7.74 | 8.05 | 8.28 | 8.28 | 8.28 | 8.30 | N/A |
| Roller Cam | 95.81 | 95.81 | 95.82 | 95.82 | 95.82 | 95.82 | 95.83 | 95.83 | 95.83 | 95.83 | 95.82 | 95.82 | 95.82 | 0.6% |
| OHC/AdvOHV-4 Cylinder | 2.84 | 2.80 | 2.79 | 2.77 | 2.76 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.76 | 2.76 | 2.76 | -0.7% |
| OHC/AdvOHV-6 Cylinder | 20.93 | 20.91 | 20.90 | 20.90 | 20.90 | 20.91 | 20.92 | 20.92 | 20.92 | 20.92 | 20.93 | 20.93 | 20.94 | -0.1% |
| OHC/AdvOHV-8 Cylinder | 13.36 | 13.31 | 13.31 | 13.28 | 13.26 | 13.29 | 13.30 | 13.31 | 13.31 | 13.30 | 13.30 | 13.30 | 13.27 | -0.1% |
| 4-Valve/4-Cylinder | 27.93 | 27.99 | 27.95 | 27.98 | 28.05 | 27.95 | 27.91 | 27.90 | 27.88 | 27.92 | 27.96 | 27.94 | 28.06 | 0.0% |
| 4-Valve/6-Cylinder | 17.99 | 18.09 | 18.14 | 18.18 | 18.18 | 18.21 | 18.22 | 18.22 | 18.22 | 18.21 | 18.19 | 18.20 | 18.15 | 0.4% |
| 4-Valve/8-Cylinder | 7.68 | 7.77 | 7.82 | 7.86 | 7.88 | 7.90 | 7.90 | 7.90 | 7.91 | 7.90 | 7.88 | 7.89 | 7.85 | 0.9% |
| 5-Valve/6-Cylinder | 1.11 | 1.11 | 1.11 | 1.11 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.0% |
| VVT-4 Cylinder | 29.24 | 29.15 | 28.99 | 28.81 | 28.67 | 28.37 | 28.13 | 27.90 | 27.64 | 27.46 | 27.29 | 26.99 | 26.92 | 4.5% |
| VVT-6 Cylinder | 6.75 | 6.99 | 7.09 | 7.20 | 7.26 | 7.24 | 7.21 | 7.18 | 7.16 | 7.13 | 7.10 | 7.07 | 7.04 | 5.7% |
| VVT-8 Cylinder | 4.00 | 4.21 | 4.32 | 4.45 | 4.54 | 4.55 | 4.56 | 4.56 | 4.58 | 4.57 | 4.55 | 4.55 | 4.53 | 12.3% |
| VVL-4 Cylinder | 6.11 | 6.07 | 6.00 | 5.92 | 5.84 | 5.70 | 5.55 | 5.41 | 5.41 | 5.42 | 5.42 | 5.42 | 5.42 | 1.9% |
| VVL-6 Cylinder | 3.82 | 3.99 | 4.01 | 4.04 | 4.05 | 3.99 | 3.93 | 3.88 | 3.83 | 3.83 | 3.83 | 3.83 | 3.83 | 12.3% |
| VVL-8 Cylinder | 1.54 | 1.59 | 1.66 | 1.76 | 1.86 | 1.97 | 2.07 | 2.13 | 2.19 | 2.23 | 2.24 | 2.24 | 2.23 | 5.5% |
| Camless Valve Actuation-4cyl | 0.35 | 0.49 | 0.65 | 0.88 | 1.11 | 1.37 | 1.61 | 1.88 | 2.17 | 2.43 | 2.65 | 2.98 | 3.18 | N/A |
| Camless Valve Actuation-6cyl | 0.51 | 0.70 | 0.96 | 1.24 | 1.53 | 1.81 | 2.14 | 2.45 | 2.76 | 2.99 | 3.33 | 3.56 | 3.72 | N/A |
| Camless Valve Actuation-8cyl | 0.52 | 0.69 | 0.85 | 1.01 | 1.15 | 1.32 | 1.47 | 1.64 | 1.78 | 1.95 | 2.09 | 2.20 | 2.24 | N/A |
| Cylinder Deactivation | 2.86 | 3.21 | 3.60 | 3.98 | 4.34 | 4.52 | 4.69 | 4.91 | 5.00 | 5.01 | 5.01 | 5.01 | 5.00 | N/A |
| Turbocharging/Supercharging | 1.85 | 1.94 | 1.97 | 2.00 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 20.6% |
| Engine Friction Reduction I | 64.39 | 62.42 | 60.75 | 58.83 | 57.03 | 55.46 | 53.78 | 51.73 | 49.38 | 47.63 | 45.96 | 44.64 | 43.63 | -1.1% |
| Engine Friction Reduction II | 32.60 | 34.07 | 34.72 | 35.39 | 35.75 | 35.78 | 35.78 | 35.80 | 35.86 | 35.86 | 35.86 | 35.86 | 35.83 | 5.3% |
| Engine Friction Reduction III | 1.83 | 2.77 | 3.91 | 5.19 | 6.57 | 7.91 | 9.26 | 10.79 | 12.45 | 13.48 | 14.34 | 14.81 | 15.01 | N/A |

**Table 56. Technology Market Penetration in Light-Duty Vehicles**
**(Percentage)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Engine Friction Reduction IV | 0.00 | 0.00 | 0.00 | 0.04 | 0.16 | 0.41 | 0.79 | 1.38 | 2.09 | 2.88 | 3.74 | 4.63 | 5.51 | N/A |
| Stoichiometric GDI/4-Cylinder | 1.15 | 1.43 | 1.75 | 2.04 | 2.32 | 2.56 | 2.79 | 2.98 | 3.14 | 3.16 | 3.18 | 3.13 | 3.05 | N/A |
| Stoichiometric GDI/6-Cylinder | 0.91 | 1.17 | 1.44 | 1.70 | 1.99 | 2.24 | 2.50 | 2.71 | 3.00 | 3.14 | 3.25 | 3.28 | 3.40 | N/A |
| Lean Burn GDI | 1.18 | 1.52 | 1.87 | 2.20 | 2.55 | 2.85 | 3.17 | 3.44 | 3.72 | 3.89 | 4.03 | 4.07 | 4.14 | N/A |
| 5W-30 Engine Oil | 39.99 | 39.94 | 39.94 | 39.93 | 39.90 | 39.84 | 39.73 | 39.68 | 39.66 | 39.65 | 39.63 | 39.64 | 39.61 | 0.1% |
| 5W-20 Engine Oil | 21.53 | 23.24 | 25.13 | 27.03 | 27.80 | 28.44 | 29.02 | 29.48 | 29.80 | 29.85 | 29.91 | 29.91 | 29.89 | N/A |
| 0W-20 Engine Oil | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electric Power Steering | 4.76 | 5.66 | 6.59 | 7.50 | 8.34 | 9.05 | 9.62 | 10.38 | 11.08 | 11.34 | 11.58 | 11.71 | 11.70 | N/A |
| Improved Alternator | 2.44 | 2.82 | 3.17 | 3.51 | 3.79 | 4.07 | 4.19 | 4.37 | 4.53 | 4.54 | 4.55 | 4.55 | 4.55 | N/A |
| Improved Oil/Water Pump | 23.53 | 25.15 | 25.87 | 26.48 | 26.82 | 26.85 | 26.86 | 26.89 | 26.97 | 26.98 | 26.99 | 26.99 | 26.97 | 27.1% |
| Electric Oil/Water Pump | 1.22 | 1.55 | 1.91 | 2.29 | 2.64 | 2.98 | 3.29 | 3.63 | 3.92 | 4.10 | 4.28 | 4.38 | 4.39 | N/A |
| Tires II | 58.71 | 58.41 | 58.03 | 57.46 | 56.62 | 55.79 | 55.19 | 54.30 | 53.27 | 52.46 | 51.62 | 50.89 | 50.07 | 0.4% |
| Tires III | 15.08 | 17.15 | 19.07 | 21.23 | 22.94 | 24.77 | 25.67 | 26.87 | 28.01 | 28.26 | 28.41 | 28.41 | 28.39 | N/A |
| Tires IV | 0.00 | 0.00 | 0.05 | 0.19 | 0.55 | 1.11 | 1.99 | 3.14 | 4.54 | 6.05 | 7.73 | 9.38 | 10.83 | N/A |
| Front Wheel Drive | 49.70 | 49.68 | 49.62 | 49.60 | 49.61 | 49.53 | 49.49 | 49.46 | 49.44 | 49.47 | 49.51 | 49.50 | 49.58 | -0.1% |
| Four Wheel Drive Improvements | 3.04 | 3.18 | 3.48 | 3.59 | 3.65 | 3.65 | 3.66 | 3.66 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 23.1% |
| 42V-Launch Assist and Regen | 1.06 | 1.26 | 1.44 | 1.61 | 1.77 | 1.90 | 2.03 | 2.09 | 2.16 | 2.22 | 2.22 | 2.23 | 2.23 | N/A |
| 42V-Engine Off at Idle | 1.26 | 1.44 | 1.61 | 1.77 | 1.90 | 2.03 | 2.09 | 2.16 | 2.22 | 2.22 | 2.23 | 2.23 | 2.23 | N/A |
| Tier 2 Emissions Technology | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | N/A |
| Increased Size/Weight | 65.00 | 70.00 | 75.00 | 80.00 | 85.00 | 90.00 | 95.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 13.3% |
| Variable Compression Ratio | 0.00 | 0.00 | 0.02 | 0.08 | 0.18 | 0.31 | 0.48 | 0.65 | 0.83 | 1.05 | 1.24 | 1.43 | 1.59 | N/A |

**Table 56. Technology Market Penetration in Light-Duty Vehicles**
**(Percentage)**

Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 57. New Light-Duty Vehicle Fuel Economy**
**(Miles per Gallon)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline | | | | | | | | | | | | | |
| Mini-compact Cars | 24.50 | 24.45 | 24.69 | 24.80 | 24.90 | 24.82 | 25.04 | 25.04 | 24.86 | 25.07 | 25.40 | 25.54 | 25.72 |
| Subcompact Cars | 31.04 | 30.99 | 30.89 | 30.93 | 30.98 | 30.80 | 30.63 | 30.44 | 30.18 | 30.27 | 30.43 | 30.50 | 30.66 |
| Compact Cars | 30.28 | 30.21 | 30.13 | 30.20 | 30.30 | 30.19 | 30.09 | 29.97 | 29.72 | 29.82 | 29.98 | 30.08 | 30.25 |
| Midsize Cars | 26.73 | 26.67 | 26.60 | 26.66 | 26.73 | 26.63 | 26.55 | 26.42 | 26.20 | 26.31 | 26.48 | 26.57 | 26.69 |
| Large Cars | 25.26 | 25.20 | 25.11 | 25.11 | 25.10 | 24.92 | 24.77 | 24.59 | 24.35 | 24.43 | 24.57 | 24.67 | 24.82 |
| Two Seater Cars | 24.87 | 24.89 | 24.95 | 24.96 | 25.00 | 24.87 | 24.76 | 24.63 | 24.42 | 24.55 | 24.76 | 24.87 | 25.04 |
| Small Pickup | 22.29 | 22.23 | 22.21 | 22.25 | 22.30 | 22.39 | 22.35 | 22.32 | 22.16 | 22.31 | 22.52 | 22.63 | 22.83 |
| Large Pickup | 18.88 | 18.85 | 18.82 | 18.82 | 18.82 | 18.85 | 18.80 | 18.75 | 18.61 | 18.73 | 18.90 | 19.03 | 19.21 |
| Small Van | 23.26 | 23.17 | 23.07 | 23.09 | 23.10 | 23.11 | 22.89 | 22.78 | 22.57 | 22.66 | 22.84 | 22.92 | 23.07 |
| Large Van | 18.10 | 18.07 | 18.03 | 18.03 | 18.04 | 18.09 | 18.05 | 18.04 | 17.91 | 18.05 | 18.26 | 18.41 | 18.63 |
| Small Utility | 21.19 | 21.12 | 21.11 | 21.15 | 21.19 | 21.24 | 21.21 | 21.20 | 21.04 | 21.20 | 21.46 | 21.58 | 21.78 |
| Large Utility | 17.51 | 17.50 | 17.47 | 17.48 | 17.49 | 17.53 | 17.45 | 17.42 | 17.30 | 17.42 | 17.65 | 17.80 | 18.01 |
| Turbo Direct Injection Diesel | | | | | | | | | | | | | |
| Mini-compact Cars | 33.08 | 32.98 | 32.94 | 33.01 | 33.06 | 32.86 | 32.75 | 32.57 | 32.25 | 32.35 | 32.54 | 32.59 | 32.69 |
| Subcompact Cars | 41.90 | 41.73 | 41.47 | 41.49 | 41.49 | 41.22 | 40.88 | 40.51 | 40.09 | 40.11 | 40.12 | 40.10 | 40.12 |
| Compact Cars | 40.87 | 40.70 | 40.44 | 40.48 | 40.49 | 40.25 | 39.96 | 39.62 | 39.19 | 39.20 | 39.24 | 39.23 | 39.26 |
| Midsize Cars | 36.08 | 35.94 | 35.76 | 35.79 | 35.83 | 35.59 | 35.30 | 34.97 | 34.56 | 34.56 | 34.58 | 34.57 | 34.57 |
| Large Cars | 34.11 | 34.01 | 33.86 | 33.85 | 33.83 | 33.55 | 33.22 | 32.88 | 32.51 | 32.52 | 32.57 | 32.57 | 32.61 |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Pickup | 30.10 | 30.00 | 29.84 | 29.86 | 29.92 | 29.98 | 29.59 | 29.38 | 29.11 | 29.17 | 29.25 | 29.28 | 29.35 |
| Large Pickup | 25.49 | 25.44 | 25.27 | 25.27 | 25.28 | 25.28 | 24.95 | 24.74 | 24.48 | 24.51 | 24.61 | 24.66 | 24.75 |
| Small Van | 31.40 | 31.26 | 31.07 | 31.08 | 31.10 | 31.12 | 30.64 | 30.38 | 30.08 | 30.09 | 30.13 | 30.14 | 30.19 |
| Large Van | 24.43 | 24.34 | 24.24 | 24.24 | 24.25 | 24.26 | 24.00 | 23.83 | 23.59 | 23.65 | 23.79 | 23.86 | 23.96 |
| Small Utility | 28.60 | 28.50 | 28.34 | 28.36 | 28.38 | 28.40 | 28.03 | 27.83 | 27.54 | 27.57 | 27.69 | 27.73 | 27.82 |
| Large Utility | 23.64 | 23.54 | 23.47 | 23.47 | 23.45 | 23.43 | 23.14 | 23.00 | 22.77 | 22.84 | 22.99 | 23.05 | 23.15 |
| Methanol | | | | | | | | | | | | | |
| Mini-compact Cars | 26.46 | 26.40 | 26.57 | 26.67 | 26.78 | 26.69 | 26.85 | 26.82 | 26.63 | 26.85 | 27.18 | 27.34 | 27.59 |
| Subcompact Cars | 33.52 | 33.46 | 33.33 | 33.36 | 33.41 | 33.21 | 33.00 | 32.75 | 32.44 | 32.53 | 32.71 | 32.81 | 32.97 |
| Compact Cars | 32.70 | 32.62 | 32.52 | 32.57 | 32.67 | 32.53 | 32.36 | 32.18 | 31.88 | 31.97 | 32.14 | 32.23 | 32.38 |
| Midsize Cars | 28.86 | 28.78 | 28.71 | 28.77 | 28.83 | 28.68 | 28.57 | 28.40 | 28.14 | 28.24 | 28.42 | 28.52 | 28.67 |
| Large Cars | 27.29 | 27.21 | 27.12 | 27.11 | 27.10 | 26.91 | 26.70 | 26.50 | 26.25 | 26.32 | 26.46 | 26.56 | 26.70 |
| Two Seater Cars | 26.86 | 26.88 | 26.93 | 26.94 | 26.96 | 26.80 | 26.69 | 26.55 | 26.33 | 26.45 | 26.66 | 26.80 | 26.97 |
| Small Pickup | 24.08 | 24.01 | 23.96 | 23.99 | 24.03 | 24.09 | 23.98 | 23.91 | 23.72 | 23.89 | 24.13 | 24.28 | 24.47 |
| Large Pickup | 20.39 | 20.35 | 20.32 | 20.32 | 20.31 | 20.34 | 20.24 | 20.17 | 20.02 | 20.18 | 20.41 | 20.54 | 20.72 |
| Small Van | 25.12 | 25.02 | 24.90 | 24.91 | 24.92 | 24.91 | 24.64 | 24.48 | 24.25 | 24.34 | 24.52 | 24.63 | 24.80 |
| Large Van | 19.55 | 19.50 | 19.46 | 19.46 | 19.46 | 19.49 | 19.41 | 19.39 | 19.27 | 19.42 | 19.66 | 19.81 | 20.02 |
| Small Utility | 22.88 | 22.81 | 22.81 | 22.83 | 22.87 | 22.94 | 22.89 | 22.88 | 22.72 | 22.89 | 23.19 | 23.34 | 23.55 |
| Large Utility | 18.91 | 18.88 | 18.86 | 18.87 | 18.87 | 18.91 | 18.79 | 18.77 | 18.65 | 18.79 | 19.02 | 19.18 | 19.39 |
| Methanol Flex | | | | | | | | | | | | | |
| Mini-compact Cars | 24.99 | 24.94 | 25.15 | 25.27 | 25.36 | 25.28 | 25.50 | 25.49 | 25.31 | 25.52 | 25.85 | 26.00 | 26.19 |
| Subcompact Cars | 31.66 | 31.61 | 31.50 | 31.53 | 31.59 | 31.40 | 31.21 | 31.00 | 30.71 | 30.81 | 30.98 | 31.07 | 31.23 |
| Compact Cars | 30.88 | 30.81 | 30.73 | 30.79 | 30.89 | 30.76 | 30.64 | 30.49 | 30.22 | 30.32 | 30.50 | 30.59 | 30.75 |
| Midsize Cars | 27.26 | 27.19 | 27.13 | 27.19 | 27.25 | 27.13 | 27.05 | 26.90 | 26.67 | 26.77 | 26.95 | 27.04 | 27.18 |
| Large Cars | 25.77 | 25.70 | 25.61 | 25.61 | 25.60 | 25.42 | 25.25 | 25.06 | 24.83 | 24.90 | 25.04 | 25.14 | 25.29 |
| Two Seater Cars | 25.37 | 25.39 | 25.46 | 25.46 | 25.50 | 25.36 | 25.26 | 25.13 | 24.92 | 25.05 | 25.27 | 25.39 | 25.56 |
| Small Pickup | 22.74 | 22.67 | 22.65 | 22.68 | 22.72 | 22.79 | 22.73 | 22.70 | 22.52 | 22.69 | 22.91 | 23.03 | 23.23 |
| Large Pickup | 19.26 | 19.22 | 19.20 | 19.20 | 19.20 | 19.22 | 19.16 | 19.11 | 18.97 | 19.09 | 19.27 | 19.41 | 19.59 |
| Small Van | 23.72 | 23.63 | 23.53 | 23.55 | 23.55 | 23.56 | 23.32 | 23.20 | 22.98 | 23.08 | 23.26 | 23.37 | 23.51 |
| Large Van | 18.46 | 18.42 | 18.39 | 18.39 | 18.39 | 18.44 | 18.39 | 18.38 | 18.26 | 18.40 | 18.61 | 18.76 | 18.98 |
| Small Utility | 21.61 | 21.54 | 21.54 | 21.57 | 21.60 | 21.66 | 21.62 | 21.61 | 21.46 | 21.65 | 21.93 | 22.07 | 22.28 |

**Table 57. New Light-Duty Vehicle Fuel Economy**
**(Miles per Gallon)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Large Utility | 17.86 | 17.84 | 17.82 | 17.83 | 17.84 | 17.88 | 17.79 | 17.77 | 17.65 | 17.77 | 18.00 | 18.15 | 18.37 |
| Ethanol | | | | | | | | | | | | | |
| Mini-compact Cars | 25.48 | 25.42 | 25.62 | 25.73 | 25.83 | 25.75 | 25.95 | 25.94 | 25.75 | 25.97 | 26.29 | 26.45 | 26.66 |
| Subcompact Cars | 32.28 | 32.23 | 32.11 | 32.14 | 32.19 | 32.00 | 31.80 | 31.58 | 31.28 | 31.38 | 31.56 | 31.65 | 31.82 |
| Compact Cars | 31.49 | 31.41 | 31.33 | 31.38 | 31.48 | 31.35 | 31.21 | 31.05 | 30.76 | 30.87 | 31.04 | 31.13 | 31.29 |
| Midsize Cars | 27.79 | 27.72 | 27.65 | 27.71 | 27.78 | 27.65 | 27.55 | 27.40 | 27.16 | 27.26 | 27.44 | 27.53 | 27.68 |
| Large Cars | 26.27 | 26.20 | 26.11 | 26.11 | 26.10 | 25.92 | 25.73 | 25.54 | 25.30 | 25.37 | 25.51 | 25.61 | 25.76 |
| Two Seater Cars | 25.87 | 25.89 | 25.95 | 25.95 | 25.98 | 25.84 | 25.74 | 25.61 | 25.39 | 25.52 | 25.74 | 25.87 | 26.04 |
| Small Pickup | 23.19 | 23.12 | 23.08 | 23.12 | 23.16 | 23.22 | 23.15 | 23.10 | 22.92 | 23.09 | 23.31 | 23.44 | 23.65 |
| Large Pickup | 19.64 | 19.60 | 19.57 | 19.57 | 19.57 | 19.60 | 19.52 | 19.46 | 19.33 | 19.46 | 19.67 | 19.80 | 19.98 |
| Small Van | 24.19 | 24.09 | 23.99 | 24.00 | 24.01 | 24.01 | 23.76 | 23.62 | 23.40 | 23.50 | 23.69 | 23.80 | 23.94 |
| Large Van | 18.82 | 18.78 | 18.74 | 18.74 | 18.75 | 18.79 | 18.74 | 18.72 | 18.60 | 18.74 | 18.95 | 19.11 | 19.33 |
| Small Utility | 22.03 | 21.96 | 21.96 | 21.99 | 22.02 | 22.09 | 22.04 | 22.05 | 21.90 | 22.09 | 22.39 | 22.53 | 22.72 |
| Large Utility | 18.21 | 18.19 | 18.17 | 18.18 | 18.18 | 18.22 | 18.13 | 18.11 | 17.98 | 18.13 | 18.35 | 18.50 | 18.71 |
| Ethanol Flex | | | | | | | | | | | | | |
| Mini-compact Cars | 24.75 | 24.69 | 24.92 | 25.03 | 25.13 | 25.05 | 25.27 | 25.27 | 25.09 | 25.30 | 25.63 | 25.78 | 25.97 |
| Subcompact Cars | 31.35 | 31.30 | 31.19 | 31.23 | 31.28 | 31.10 | 30.91 | 30.71 | 30.43 | 30.53 | 30.70 | 30.78 | 30.94 |
| Compact Cars | 30.58 | 30.51 | 30.43 | 30.49 | 30.59 | 30.47 | 30.35 | 30.21 | 29.95 | 30.05 | 30.23 | 30.32 | 30.48 |
| Midsize Cars | 26.99 | 26.93 | 26.86 | 26.92 | 26.99 | 26.88 | 26.80 | 26.66 | 26.43 | 26.53 | 26.70 | 26.80 | 26.93 |
| Large Cars | 25.52 | 25.45 | 25.36 | 25.36 | 25.35 | 25.17 | 25.01 | 24.82 | 24.58 | 24.67 | 24.81 | 24.91 | 25.06 |
| Two Seater Cars | 25.12 | 25.14 | 25.21 | 25.22 | 25.25 | 25.12 | 25.02 | 24.90 | 24.69 | 24.82 | 25.04 | 25.16 | 25.33 |
| Small Pickup | 22.52 | 22.45 | 22.43 | 22.46 | 22.51 | 22.58 | 22.53 | 22.50 | 22.33 | 22.49 | 22.71 | 22.83 | 23.03 |
| Large Pickup | 19.07 | 19.04 | 19.01 | 19.01 | 19.01 | 19.04 | 18.98 | 18.93 | 18.80 | 18.91 | 19.09 | 19.23 | 19.41 |
| Small Van | 23.49 | 23.40 | 23.30 | 23.32 | 23.33 | 23.33 | 23.11 | 22.99 | 22.77 | 22.87 | 23.05 | 23.14 | 23.29 |
| Large Van | 18.28 | 18.24 | 18.21 | 18.21 | 18.21 | 18.26 | 18.22 | 18.21 | 18.09 | 18.23 | 18.44 | 18.59 | 18.81 |
| Small Utility | 21.40 | 21.33 | 21.32 | 21.36 | 21.39 | 21.45 | 21.41 | 21.41 | 21.25 | 21.43 | 21.72 | 21.86 | 22.06 |
| Large Utility | 17.69 | 17.67 | 17.65 | 17.66 | 17.66 | 17.71 | 17.62 | 17.60 | 17.48 | 17.60 | 17.84 | 17.99 | 18.20 |
| Compressed Natural Gas (CNG) | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compact Cars | 32.70 | 32.62 | 32.52 | 32.61 | 32.73 | 32.64 | 32.52 | 32.38 | 32.09 | 32.18 | 32.33 | 32.40 | 32.53 |
| Midsize Cars | 28.86 | 28.78 | 28.71 | 28.79 | 28.89 | 28.77 | 28.67 | 28.51 | 28.25 | 28.31 | 28.43 | 28.49 | 28.59 |
| Large Cars | 27.29 | 27.21 | 27.10 | 27.10 | 27.09 | 26.89 | 26.67 | 26.45 | 26.19 | 26.23 | 26.33 | 26.40 | 26.52 |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Pickup | 24.08 | 24.01 | 23.95 | 24.00 | 24.10 | 24.21 | 24.07 | 24.00 | 23.84 | 23.95 | 24.13 | 24.22 | 24.34 |
| Large Pickup | 20.39 | 20.35 | 20.28 | 20.29 | 20.30 | 20.32 | 20.21 | 20.12 | 19.94 | 20.04 | 20.18 | 20.24 | 20.34 |
| Small Van | 25.12 | 25.02 | 24.89 | 24.91 | 24.95 | 24.98 | 24.68 | 24.54 | 24.33 | 24.40 | 24.53 | 24.59 | 24.71 |
| Large Van | 19.55 | 19.50 | 19.45 | 19.45 | 19.47 | 19.51 | 19.41 | 19.37 | 19.22 | 19.32 | 19.50 | 19.59 | 19.73 |
| Small Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CNG Bi-Fuel | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compact Cars | 30.28 | 30.21 | 30.13 | 30.22 | 30.35 | 30.29 | 30.23 | 30.11 | 29.87 | 29.97 | 30.13 | 30.21 | 30.35 |
| Midsize Cars | 26.73 | 26.67 | 26.60 | 26.67 | 26.80 | 26.73 | 26.67 | 26.53 | 26.31 | 26.38 | 26.51 | 26.59 | 26.68 |
| Large Cars | 25.26 | 25.20 | 25.10 | 25.10 | 25.09 | 24.91 | 24.75 | 24.55 | 24.30 | 24.37 | 24.48 | 24.56 | 24.68 |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Pickup | 22.29 | 22.23 | 22.21 | 22.26 | 22.36 | 22.47 | 22.41 | 22.40 | 22.27 | 22.39 | 22.59 | 22.68 | 22.83 |
| Large Pickup | 18.88 | 18.85 | 18.80 | 18.81 | 18.83 | 18.86 | 18.81 | 18.75 | 18.61 | 18.70 | 18.84 | 18.93 | 19.05 |
| Small Van | 23.26 | 23.17 | 23.07 | 23.09 | 23.14 | 23.18 | 22.95 | 22.86 | 22.69 | 22.78 | 22.92 | 22.98 | 23.09 |
| Large Van | 18.10 | 18.07 | 18.02 | 18.03 | 18.07 | 18.11 | 18.06 | 18.04 | 17.90 | 18.01 | 18.17 | 18.29 | 18.46 |
| Small Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 57. New Light-Duty Vehicle Fuel Economy**
**(Miles per Gallon)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liquefied Petroleum Gas (LPG) | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Subcompact Cars | 32.28 | 32.23 | 32.11 | 32.16 | 32.20 | 32.01 | 31.81 | 31.60 | 31.31 | 31.39 | 31.54 | 31.60 | 31.74 |
| Compact Cars | 31.49 | 31.41 | 31.33 | 31.39 | 31.50 | 31.37 | 31.25 | 31.10 | 30.82 | 30.91 | 31.07 | 31.15 | 31.30 |
| Midsize Cars | 27.79 | 27.72 | 27.65 | 27.72 | 27.79 | 27.67 | 27.57 | 27.41 | 27.17 | 27.27 | 27.42 | 27.50 | 27.62 |
| Large Cars | 26.27 | 26.20 | 26.11 | 26.11 | 26.10 | 25.91 | 25.72 | 25.52 | 25.28 | 25.34 | 25.47 | 25.56 | 25.70 |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Pickup | 23.19 | 23.12 | 23.08 | 23.12 | 23.16 | 23.26 | 23.16 | 23.11 | 22.93 | 23.08 | 23.28 | 23.39 | 23.58 |
| Large Pickup | 19.64 | 19.60 | 19.56 | 19.56 | 19.56 | 19.58 | 19.50 | 19.43 | 19.28 | 19.40 | 19.59 | 19.70 | 19.85 |
| Small Van | 24.19 | 24.09 | 23.98 | 24.00 | 24.01 | 24.02 | 23.76 | 23.62 | 23.39 | 23.48 | 23.64 | 23.74 | 23.87 |
| Large Van | 18.82 | 18.78 | 18.74 | 18.74 | 18.74 | 18.78 | 18.72 | 18.70 | 18.57 | 18.70 | 18.89 | 19.03 | 19.24 |
| Small Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Large Utility | 18.21 | 18.19 | 18.16 | 18.17 | 18.17 | 18.21 | 18.11 | 18.08 | 17.94 | 18.08 | 18.28 | 18.41 | 18.62 |
| LPG Bi-Fuel | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compact Cars | 30.28 | 30.21 | 30.13 | 30.21 | 30.31 | 30.22 | 30.13 | 30.02 | 29.77 | 29.88 | 30.03 | 30.12 | 30.28 |
| Midsize Cars | 26.73 | 26.67 | 26.60 | 26.67 | 26.75 | 26.66 | 26.58 | 26.45 | 26.24 | 26.33 | 26.47 | 26.55 | 26.67 |
| Large Cars | 25.26 | 25.20 | 25.11 | 25.11 | 25.10 | 24.92 | 24.76 | 24.57 | 24.33 | 24.41 | 24.55 | 24.64 | 24.78 |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Pickup | 22.29 | 22.23 | 22.21 | 22.25 | 22.32 | 22.42 | 22.37 | 22.35 | 22.19 | 22.32 | 22.52 | 22.62 | 22.79 |
| Large Pickup | 18.88 | 18.85 | 18.81 | 18.82 | 18.82 | 18.85 | 18.80 | 18.74 | 18.60 | 18.69 | 18.85 | 18.95 | 19.12 |
| Small Van | 23.26 | 23.17 | 23.07 | 23.09 | 23.11 | 23.14 | 22.91 | 22.80 | 22.59 | 22.68 | 22.85 | 22.92 | 23.05 |
| Large Van | 18.10 | 18.07 | 18.02 | 18.03 | 18.05 | 18.11 | 18.07 | 18.05 | 17.91 | 18.04 | 18.23 | 18.37 | 18.58 |
| Small Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Large Utility | 17.51 | 17.50 | 17.47 | 17.48 | 17.48 | 17.52 | 17.44 | 17.41 | 17.28 | 17.39 | 17.61 | 17.74 | 17.94 |
| Electric | | | | | | | | | | | | | |
| Mini-compact Cars | 26.01 | 27.43 | 27.76 | 28.38 | 31.25 | 34.40 | 38.33 | 43.40 | 42.82 | 42.83 | 42.86 | 42.85 | 42.85 |
| Subcompact Cars | 32.69 | 34.46 | 34.80 | 35.57 | 39.15 | 43.07 | 47.92 | 54.19 | 53.42 | 53.39 | 53.37 | 53.34 | 53.33 |
| Compact Cars | 32.04 | 33.78 | 34.12 | 34.86 | 38.36 | 42.20 | 46.94 | 53.07 | 52.32 | 52.29 | 52.28 | 52.25 | 52.23 |
| Midsize Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Large Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Two Seater Cars | 30.17 | 31.81 | 32.13 | 32.84 | 36.15 | 39.77 | 44.26 | 50.07 | 49.37 | 49.35 | 49.34 | 49.31 | 49.28 |
| Small Pickup | 24.93 | 26.27 | 26.52 | 27.08 | 29.79 | 33.11 | 36.43 | 41.18 | 40.59 | 40.52 | 40.47 | 40.41 | 40.36 |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Van | 22.32 | 23.52 | 23.75 | 24.25 | 26.68 | 29.66 | 32.65 | 36.93 | 36.41 | 36.37 | 36.33 | 36.28 | 36.23 |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Diesel-Electric Hybrid | | | | | | | | | | | | | |
| Mini-compact Cars | 39.20 | 39.09 | 38.96 | 39.01 | 39.04 | 38.78 | 38.47 | 38.12 | 37.72 | 37.78 | 37.90 | 37.91 | 37.96 |
| Subcompact Cars | 49.66 | 49.45 | 49.11 | 49.12 | 49.09 | 48.68 | 48.15 | 47.60 | 47.03 | 46.96 | 46.89 | 46.81 | 46.76 |
| Compact Cars | 48.44 | 48.23 | 47.89 | 47.92 | 47.90 | 47.53 | 47.05 | 46.55 | 45.98 | 45.90 | 45.83 | 45.75 | 45.69 |
| Midsize Cars | 42.76 | 42.59 | 42.31 | 42.33 | 42.33 | 41.98 | 41.52 | 41.04 | 40.52 | 40.45 | 40.40 | 40.33 | 40.29 |
| Large Cars | 40.42 | 40.31 | 40.13 | 40.12 | 40.07 | 39.72 | 39.26 | 38.80 | 38.33 | 38.30 | 38.28 | 38.25 | 38.24 |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Van | 37.21 | 37.05 | 36.81 | 36.81 | 36.82 | 36.79 | 36.15 | 35.78 | 35.36 | 35.30 | 35.26 | 35.20 | 35.17 |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Utility | 33.90 | 33.77 | 33.55 | 33.56 | 33.56 | 33.55 | 32.98 | 32.64 | 32.25 | 32.23 | 32.24 | 32.22 | 32.24 |
| Large Utility | 28.02 | 27.89 | 27.74 | 27.73 | 27.71 | 27.66 | 27.23 | 26.98 | 26.66 | 26.66 | 26.72 | 26.74 | 26.80 |
| Gasoline-Electric Hybrid | | | | | | | | | | | | | |

**Table 57. New Light-Duty Vehicle Fuel Economy**
**(Miles per Gallon)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mini-compact Cars | 35.53 | 35.43 | 35.33 | 35.42 | 35.52 | 35.29 | 35.05 | 34.78 | 34.43 | 34.51 | 34.65 | 34.68 | 34.75 |
| Subcompact Cars | 45.00 | 44.91 | 44.68 | 44.73 | 44.74 | 44.41 | 43.96 | 43.50 | 43.01 | 42.98 | 42.95 | 42.89 | 42.86 |
| Compact Cars | 43.90 | 43.78 | 43.57 | 43.64 | 43.73 | 43.48 | 43.11 | 42.72 | 42.24 | 42.20 | 42.17 | 42.11 | 42.08 |
| Midsize Cars | 38.75 | 38.60 | 38.39 | 38.46 | 38.52 | 38.27 | 37.92 | 37.53 | 37.11 | 37.08 | 37.05 | 37.01 | 36.99 |
| Large Cars | 36.63 | 36.53 | 36.37 | 36.36 | 36.32 | 36.01 | 35.61 | 35.21 | 34.80 | 34.78 | 34.78 | 34.76 | 34.77 |
| Two Seater Cars | 36.07 | 36.02 | 36.01 | 36.01 | 36.03 | 35.77 | 35.42 | 35.07 | 34.69 | 34.69 | 34.72 | 34.73 | 34.75 |
| Small Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Van | 33.72 | 33.58 | 33.36 | 33.35 | 33.34 | 33.29 | 32.71 | 32.36 | 31.97 | 31.92 | 31.89 | 31.84 | 31.82 |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Utility | 30.72 | 30.58 | 30.36 | 30.35 | 30.34 | 30.30 | 29.78 | 29.47 | 29.11 | 29.08 | 29.12 | 29.11 | 29.14 |
| Large Utility | 25.39 | 25.27 | 25.16 | 25.15 | 25.12 | 25.07 | 24.71 | 24.49 | 24.21 | 24.23 | 24.32 | 24.35 | 24.42 |
| Fuel Cell Methanol | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compact Cars | 56.51 | 56.42 | 56.35 | 56.28 | 56.20 | 55.52 | 54.75 | 53.98 | 53.22 | 53.18 | 53.17 | 53.14 | 53.12 |
| Midsize Cars | 48.34 | 48.27 | 48.22 | 48.16 | 48.10 | 47.53 | 46.89 | 46.25 | 45.61 | 45.58 | 45.57 | 45.54 | 45.51 |
| Large Cars | 43.45 | 43.40 | 43.35 | 43.30 | 43.25 | 42.73 | 42.16 | 41.59 | 41.02 | 40.99 | 40.96 | 40.93 | 40.90 |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Van | 39.36 | 39.29 | 39.22 | 39.15 | 39.08 | 39.02 | 38.08 | 37.56 | 37.04 | 36.99 | 36.95 | 36.90 | 36.85 |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Utility | 41.44 | 41.36 | 41.29 | 41.22 | 41.16 | 41.10 | 40.12 | 39.58 | 39.02 | 38.98 | 38.94 | 38.89 | 38.85 |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Hydrogen | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compact Cars | 61.96 | 61.87 | 61.78 | 61.71 | 61.62 | 60.88 | 60.03 | 59.19 | 58.35 | 58.31 | 58.30 | 58.27 | 58.25 |
| Midsize Cars | 53.00 | 52.93 | 52.87 | 52.81 | 52.74 | 52.11 | 51.41 | 50.72 | 50.02 | 49.98 | 49.97 | 49.93 | 49.90 |
| Large Cars | 47.65 | 47.59 | 47.53 | 47.47 | 47.42 | 46.86 | 46.23 | 45.60 | 44.98 | 44.94 | 44.91 | 44.88 | 44.85 |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Van | 43.16 | 43.08 | 43.00 | 42.93 | 42.86 | 42.79 | 41.76 | 41.19 | 40.61 | 40.56 | 40.51 | 40.46 | 40.41 |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Utility | 45.44 | 45.35 | 45.28 | 45.20 | 45.13 | 45.06 | 43.99 | 43.40 | 42.79 | 42.74 | 42.70 | 42.65 | 42.60 |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cell Gasoline | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Compact Cars | 52.95 | 52.87 | 52.80 | 52.74 | 52.66 | 52.02 | 51.30 | 50.58 | 49.86 | 49.83 | 49.82 | 49.79 | 49.78 |
| Midsize Cars | 45.29 | 45.23 | 45.18 | 45.13 | 45.07 | 44.53 | 43.93 | 43.34 | 42.74 | 42.71 | 42.70 | 42.67 | 42.65 |
| Large Cars | 40.72 | 40.67 | 40.62 | 40.57 | 40.52 | 40.04 | 39.50 | 38.97 | 38.44 | 38.40 | 38.38 | 38.35 | 38.33 |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Van | 36.88 | 36.81 | 36.75 | 36.68 | 36.62 | 36.57 | 35.68 | 35.20 | 34.70 | 34.66 | 34.62 | 34.57 | 34.53 |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Small Utility | 38.83 | 38.76 | 38.69 | 38.63 | 38.57 | 38.51 | 37.60 | 37.09 | 36.57 | 36.52 | 36.49 | 36.44 | 36.40 |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 57. New Light-Duty Vehicle Fuel Economy**
**(Miles per Gallon)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline | | | | | | | | | | | | | | |
| Mini-compact Cars | 25.87 | 25.96 | 26.03 | 26.10 | 26.16 | 26.21 | 26.26 | 26.31 | 26.39 | 26.45 | 26.52 | 26.58 | 26.61 | 0.4% |
| Subcompact Cars | 30.84 | 30.98 | 31.10 | 31.20 | 31.30 | 31.37 | 31.43 | 31.51 | 31.63 | 31.71 | 31.79 | 31.85 | 31.89 | 0.1% |
| Compact Cars | 30.45 | 30.62 | 30.71 | 30.77 | 30.84 | 30.88 | 30.92 | 30.97 | 31.07 | 31.14 | 31.20 | 31.24 | 31.27 | 0.1% |
| Midsize Cars | 26.83 | 26.92 | 27.00 | 27.09 | 27.16 | 27.21 | 27.26 | 27.31 | 27.39 | 27.45 | 27.50 | 27.55 | 27.57 | 0.1% |
| Large Cars | 25.00 | 25.14 | 25.25 | 25.35 | 25.45 | 25.52 | 25.58 | 25.65 | 25.75 | 25.83 | 25.91 | 25.96 | 25.99 | 0.1% |
| Two Seater Cars | 25.24 | 25.36 | 25.47 | 25.57 | 25.67 | 25.74 | 25.78 | 25.84 | 25.93 | 26.00 | 26.07 | 26.13 | 26.16 | 0.2% |
| Small Pickup | 23.04 | 23.23 | 23.44 | 23.60 | 23.78 | 23.90 | 24.03 | 24.17 | 24.34 | 24.47 | 24.57 | 24.65 | 24.72 | 0.4% |
| Large Pickup | 19.41 | 19.54 | 19.68 | 19.83 | 19.95 | 20.07 | 20.15 | 20.25 | 20.38 | 20.49 | 20.57 | 20.63 | 20.70 | 0.4% |
| Small Van | 23.21 | 23.33 | 23.43 | 23.55 | 23.64 | 23.73 | 23.82 | 23.94 | 24.09 | 24.20 | 24.31 | 24.39 | 24.46 | 0.2% |
| Large Van | 18.89 | 19.05 | 19.18 | 19.33 | 19.46 | 19.58 | 19.67 | 19.78 | 19.93 | 20.04 | 20.16 | 20.25 | 20.35 | 0.5% |
| Small Utility | 22.00 | 22.18 | 22.31 | 22.48 | 22.63 | 22.75 | 22.87 | 23.00 | 23.16 | 23.27 | 23.39 | 23.48 | 23.56 | 0.5% |
| Large Utility | 18.20 | 18.33 | 18.46 | 18.59 | 18.71 | 18.79 | 18.87 | 18.98 | 19.12 | 19.21 | 19.31 | 19.38 | 19.45 | 0.4% |
| Turbo Direct Injection Diesel | | | | | | | | | | | | | | |
| Mini-compact Cars | 32.77 | 32.79 | 32.81 | 32.82 | 32.83 | 32.84 | 32.84 | 32.86 | 32.91 | 32.94 | 32.98 | 33.01 | 33.02 | 0.0% |
| Subcompact Cars | 40.16 | 40.18 | 40.18 | 40.18 | 40.19 | 40.20 | 40.18 | 40.17 | 40.21 | 40.23 | 40.24 | 40.24 | 40.25 | -0.2% |
| Compact Cars | 39.34 | 39.38 | 39.40 | 39.42 | 39.46 | 39.47 | 39.44 | 39.42 | 39.45 | 39.46 | 39.47 | 39.45 | 39.45 | -0.1% |
| Midsize Cars | 34.59 | 34.58 | 34.57 | 34.56 | 34.56 | 34.53 | 34.50 | 34.49 | 34.52 | 34.54 | 34.55 | 34.54 | 34.54 | -0.2% |
| Large Cars | 32.67 | 32.72 | 32.76 | 32.79 | 32.83 | 32.84 | 32.84 | 32.87 | 32.94 | 32.98 | 33.01 | 33.03 | 33.04 | -0.1% |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Pickup | 29.46 | 29.53 | 29.62 | 29.73 | 29.88 | 29.96 | 30.03 | 30.08 | 30.21 | 30.29 | 30.37 | 30.41 | 30.44 | 0.1% |
| Large Pickup | 24.83 | 24.89 | 24.95 | 25.00 | 25.07 | 25.10 | 25.12 | 25.18 | 25.27 | 25.33 | 25.38 | 25.40 | 25.43 | 0.0% |
| Small Van | 30.25 | 30.29 | 30.33 | 30.38 | 30.44 | 30.48 | 30.50 | 30.56 | 30.67 | 30.73 | 30.80 | 30.84 | 30.87 | -0.1% |
| Large Van | 24.10 | 24.19 | 24.25 | 24.34 | 24.42 | 24.47 | 24.50 | 24.57 | 24.69 | 24.77 | 24.84 | 24.89 | 24.94 | 0.1% |
| Small Utility | 27.93 | 27.99 | 28.05 | 28.12 | 28.18 | 28.23 | 28.28 | 28.34 | 28.43 | 28.51 | 28.59 | 28.64 | 28.68 | 0.0% |
| Large Utility | 23.24 | 23.31 | 23.38 | 23.47 | 23.53 | 23.58 | 23.63 | 23.71 | 23.83 | 23.91 | 23.99 | 24.03 | 24.08 | 0.1% |
| Methanol | | | | | | | | | | | | | | |
| Mini-compact Cars | 27.77 | 27.87 | 27.98 | 28.07 | 28.15 | 28.21 | 28.27 | 28.32 | 28.41 | 28.48 | 28.55 | 28.60 | 28.64 | 0.3% |
| Subcompact Cars | 33.18 | 33.34 | 33.48 | 33.62 | 33.72 | 33.80 | 33.88 | 33.98 | 34.12 | 34.22 | 34.31 | 34.38 | 34.43 | 0.1% |
| Compact Cars | 32.58 | 32.74 | 32.88 | 32.97 | 33.05 | 33.10 | 33.15 | 33.21 | 33.32 | 33.39 | 33.46 | 33.51 | 33.54 | 0.1% |
| Midsize Cars | 28.81 | 28.92 | 29.02 | 29.12 | 29.21 | 29.27 | 29.33 | 29.40 | 29.50 | 29.56 | 29.63 | 29.69 | 29.72 | 0.1% |
| Large Cars | 26.87 | 27.02 | 27.14 | 27.26 | 27.37 | 27.45 | 27.52 | 27.61 | 27.73 | 27.81 | 27.90 | 27.96 | 28.00 | 0.1% |
| Two Seater Cars | 27.16 | 27.30 | 27.42 | 27.53 | 27.65 | 27.73 | 27.80 | 27.86 | 27.95 | 28.02 | 28.09 | 28.15 | 28.19 | 0.2% |
| Small Pickup | 24.70 | 24.92 | 25.14 | 25.36 | 25.59 | 25.72 | 25.85 | 25.99 | 26.18 | 26.32 | 26.45 | 26.53 | 26.59 | 0.4% |
| Large Pickup | 20.94 | 21.13 | 21.27 | 21.42 | 21.56 | 21.68 | 21.78 | 21.89 | 22.02 | 22.12 | 22.21 | 22.28 | 22.34 | 0.4% |
| Small Van | 24.94 | 25.06 | 25.17 | 25.28 | 25.40 | 25.50 | 25.59 | 25.71 | 25.87 | 25.99 | 26.11 | 26.20 | 26.28 | 0.2% |
| Large Van | 20.30 | 20.49 | 20.66 | 20.85 | 21.00 | 21.13 | 21.24 | 21.36 | 21.50 | 21.62 | 21.74 | 21.82 | 21.90 | 0.5% |
| Small Utility | 23.76 | 23.92 | 24.07 | 24.22 | 24.36 | 24.47 | 24.60 | 24.73 | 24.90 | 25.03 | 25.16 | 25.25 | 25.34 | 0.4% |
| Large Utility | 19.63 | 19.80 | 19.95 | 20.09 | 20.21 | 20.32 | 20.42 | 20.52 | 20.65 | 20.75 | 20.83 | 20.89 | 20.95 | 0.4% |
| Methanol Flex | | | | | | | | | | | | | | |
| Mini-compact Cars | 26.35 | 26.45 | 26.52 | 26.59 | 26.66 | 26.72 | 26.77 | 26.82 | 26.90 | 26.97 | 27.05 | 27.11 | 27.15 | 0.4% |
| Subcompact Cars | 31.43 | 31.59 | 31.72 | 31.83 | 31.93 | 32.01 | 32.08 | 32.16 | 32.29 | 32.38 | 32.46 | 32.53 | 32.57 | 0.1% |
| Compact Cars | 30.96 | 31.12 | 31.23 | 31.31 | 31.38 | 31.43 | 31.47 | 31.53 | 31.63 | 31.70 | 31.76 | 31.81 | 31.84 | 0.1% |
| Midsize Cars | 27.32 | 27.43 | 27.52 | 27.61 | 27.70 | 27.75 | 27.80 | 27.85 | 27.94 | 28.01 | 28.07 | 28.11 | 28.14 | 0.1% |
| Large Cars | 25.47 | 25.61 | 25.72 | 25.82 | 25.92 | 26.00 | 26.06 | 26.14 | 26.24 | 26.32 | 26.40 | 26.46 | 26.50 | 0.1% |
| Two Seater Cars | 25.76 | 25.89 | 26.00 | 26.11 | 26.21 | 26.28 | 26.33 | 26.39 | 26.48 | 26.55 | 26.63 | 26.68 | 26.72 | 0.2% |
| Small Pickup | 23.45 | 23.64 | 23.86 | 24.05 | 24.23 | 24.35 | 24.49 | 24.65 | 24.84 | 24.98 | 25.10 | 25.19 | 25.26 | 0.5% |
| Large Pickup | 19.83 | 19.98 | 20.13 | 20.29 | 20.43 | 20.54 | 20.64 | 20.74 | 20.86 | 20.96 | 21.04 | 21.10 | 21.17 | 0.4% |
| Small Van | 23.65 | 23.76 | 23.88 | 24.00 | 24.10 | 24.19 | 24.29 | 24.40 | 24.56 | 24.67 | 24.79 | 24.87 | 24.95 | 0.2% |
| Large Van | 19.25 | 19.43 | 19.59 | 19.76 | 19.90 | 20.03 | 20.13 | 20.24 | 20.40 | 20.53 | 20.63 | 20.71 | 20.80 | 0.5% |
| Small Utility | 22.50 | 22.67 | 22.83 | 22.97 | 23.11 | 23.24 | 23.36 | 23.49 | 23.66 | 23.79 | 23.91 | 24.00 | 24.08 | 0.5% |

**Table 57. New Light-Duty Vehicle Fuel Economy**
**(Miles per Gallon)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Large Utility | 18.58 | 18.73 | 18.86 | 19.00 | 19.13 | 19.23 | 19.32 | 19.43 | 19.58 | 19.66 | 19.76 | 19.83 | 19.90 | 0.5% |
| Ethanol | | | | | | | | | | | | | | |
| Mini-compact Cars | 26.82 | 26.91 | 27.01 | 27.09 | 27.17 | 27.23 | 27.29 | 27.35 | 27.43 | 27.50 | 27.58 | 27.64 | 27.68 | 0.4% |
| Subcompact Cars | 32.02 | 32.18 | 32.33 | 32.44 | 32.55 | 32.62 | 32.70 | 32.79 | 32.91 | 33.01 | 33.10 | 33.17 | 33.22 | 0.1% |
| Compact Cars | 31.50 | 31.66 | 31.79 | 31.86 | 31.94 | 31.99 | 32.03 | 32.09 | 32.20 | 32.27 | 32.33 | 32.38 | 32.41 | 0.1% |
| Midsize Cars | 27.82 | 27.93 | 28.03 | 28.13 | 28.22 | 28.27 | 28.33 | 28.39 | 28.48 | 28.55 | 28.61 | 28.66 | 28.69 | 0.1% |
| Large Cars | 25.93 | 26.08 | 26.20 | 26.31 | 26.42 | 26.50 | 26.57 | 26.64 | 26.74 | 26.82 | 26.90 | 26.96 | 27.00 | 0.1% |
| Two Seater Cars | 26.24 | 26.37 | 26.48 | 26.60 | 26.70 | 26.78 | 26.84 | 26.89 | 26.98 | 27.06 | 27.13 | 27.19 | 27.23 | 0.2% |
| Small Pickup | 23.86 | 24.06 | 24.28 | 24.49 | 24.69 | 24.82 | 24.96 | 25.11 | 25.30 | 25.45 | 25.57 | 25.65 | 25.72 | 0.4% |
| Large Pickup | 20.22 | 20.38 | 20.53 | 20.69 | 20.83 | 20.95 | 21.05 | 21.14 | 21.26 | 21.36 | 21.46 | 21.52 | 21.58 | 0.4% |
| Small Van | 24.11 | 24.23 | 24.33 | 24.45 | 24.55 | 24.64 | 24.74 | 24.85 | 25.01 | 25.12 | 25.24 | 25.33 | 25.42 | 0.2% |
| Large Van | 19.61 | 19.81 | 19.98 | 20.15 | 20.29 | 20.42 | 20.53 | 20.64 | 20.79 | 20.91 | 21.01 | 21.09 | 21.18 | 0.5% |
| Small Utility | 22.93 | 23.10 | 23.25 | 23.40 | 23.54 | 23.67 | 23.79 | 23.93 | 24.10 | 24.23 | 24.35 | 24.45 | 24.54 | 0.5% |
| Large Utility | 18.97 | 19.12 | 19.25 | 19.39 | 19.51 | 19.63 | 19.71 | 19.81 | 19.96 | 20.04 | 20.13 | 20.21 | 20.27 | 0.5% |
| Ethanol Flex | | | | | | | | | | | | | | |
| Mini-compact Cars | 26.13 | 26.22 | 26.30 | 26.36 | 26.43 | 26.49 | 26.54 | 26.59 | 26.67 | 26.74 | 26.81 | 26.87 | 26.90 | 0.4% |
| Subcompact Cars | 31.14 | 31.29 | 31.43 | 31.53 | 31.63 | 31.70 | 31.77 | 31.86 | 31.98 | 32.07 | 32.15 | 32.22 | 32.26 | 0.1% |
| Compact Cars | 30.69 | 30.86 | 30.96 | 31.03 | 31.10 | 31.15 | 31.19 | 31.25 | 31.35 | 31.42 | 31.49 | 31.53 | 31.56 | 0.1% |
| Midsize Cars | 27.08 | 27.18 | 27.27 | 27.36 | 27.44 | 27.49 | 27.54 | 27.59 | 27.68 | 27.74 | 27.80 | 27.85 | 27.88 | 0.1% |
| Large Cars | 25.24 | 25.38 | 25.49 | 25.59 | 25.69 | 25.77 | 25.83 | 25.90 | 26.01 | 26.09 | 26.17 | 26.22 | 26.26 | 0.1% |
| Two Seater Cars | 25.53 | 25.65 | 25.77 | 25.88 | 25.98 | 26.05 | 26.10 | 26.16 | 26.25 | 26.32 | 26.39 | 26.45 | 26.48 | 0.2% |
| Small Pickup | 23.25 | 23.44 | 23.65 | 23.85 | 24.02 | 24.14 | 24.26 | 24.42 | 24.61 | 24.75 | 24.87 | 24.96 | 25.03 | 0.5% |
| Large Pickup | 19.63 | 19.78 | 19.93 | 20.09 | 20.22 | 20.34 | 20.44 | 20.53 | 20.66 | 20.76 | 20.84 | 20.90 | 20.97 | 0.4% |
| Small Van | 23.43 | 23.55 | 23.67 | 23.79 | 23.88 | 23.98 | 24.07 | 24.18 | 24.34 | 24.46 | 24.57 | 24.65 | 24.73 | 0.2% |
| Large Van | 19.08 | 19.25 | 19.40 | 19.56 | 19.70 | 19.84 | 19.93 | 20.05 | 20.20 | 20.33 | 20.43 | 20.52 | 20.61 | 0.5% |
| Small Utility | 22.28 | 22.45 | 22.59 | 22.75 | 22.90 | 23.03 | 23.15 | 23.28 | 23.45 | 23.57 | 23.69 | 23.78 | 23.86 | 0.5% |
| Large Utility | 18.41 | 18.55 | 18.67 | 18.81 | 18.94 | 19.04 | 19.13 | 19.24 | 19.38 | 19.47 | 19.56 | 19.64 | 19.71 | 0.5% |
| Compressed Natural Gas (CNG) | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compact Cars | 32.70 | 32.82 | 32.92 | 32.97 | 33.01 | 33.02 | 33.03 | 33.05 | 33.13 | 33.17 | 33.21 | 33.22 | 33.23 | 0.1% |
| Midsize Cars | 28.69 | 28.76 | 28.80 | 28.86 | 28.91 | 28.93 | 28.95 | 28.98 | 29.06 | 29.10 | 29.14 | 29.15 | 29.16 | 0.1% |
| Large Cars | 26.65 | 26.76 | 26.84 | 26.93 | 27.01 | 27.06 | 27.10 | 27.17 | 27.25 | 27.31 | 27.36 | 27.39 | 27.42 | 0.0% |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Pickup | 24.51 | 24.64 | 24.80 | 24.96 | 25.13 | 25.21 | 25.29 | 25.40 | 25.55 | 25.67 | 25.75 | 25.80 | 25.85 | 0.3% |
| Large Pickup | 20.50 | 20.63 | 20.71 | 20.81 | 20.91 | 21.00 | 21.06 | 21.11 | 21.22 | 21.29 | 21.36 | 21.40 | 21.45 | 0.2% |
| Small Van | 24.82 | 24.89 | 24.96 | 25.04 | 25.13 | 25.19 | 25.25 | 25.33 | 25.46 | 25.55 | 25.65 | 25.70 | 25.76 | 0.1% |
| Large Van | 19.93 | 20.07 | 20.19 | 20.31 | 20.43 | 20.51 | 20.59 | 20.67 | 20.79 | 20.88 | 20.96 | 21.02 | 21.09 | 0.3% |
| Small Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| CNG Bi-Fuel | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compact Cars | 30.52 | 30.66 | 30.72 | 30.75 | 30.79 | 30.80 | 30.80 | 30.82 | 30.88 | 30.91 | 30.94 | 30.95 | 30.95 | 0.1% |
| Midsize Cars | 26.79 | 26.85 | 26.89 | 26.94 | 26.97 | 26.99 | 26.99 | 27.00 | 27.05 | 27.09 | 27.12 | 27.13 | 27.14 | 0.1% |
| Large Cars | 24.83 | 24.92 | 25.00 | 25.07 | 25.15 | 25.18 | 25.21 | 25.27 | 25.37 | 25.44 | 25.50 | 25.53 | 25.55 | 0.1% |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Pickup | 22.99 | 23.12 | 23.28 | 23.40 | 23.53 | 23.61 | 23.70 | 23.81 | 23.96 | 24.05 | 24.13 | 24.17 | 24.21 | 0.4% |
| Large Pickup | 19.19 | 19.27 | 19.37 | 19.46 | 19.54 | 19.61 | 19.64 | 19.70 | 19.81 | 19.86 | 19.92 | 19.96 | 20.00 | 0.2% |
| Small Van | 23.20 | 23.29 | 23.36 | 23.45 | 23.51 | 23.57 | 23.63 | 23.72 | 23.85 | 23.94 | 24.02 | 24.07 | 24.12 | 0.2% |
| Large Van | 18.68 | 18.78 | 18.87 | 18.97 | 19.07 | 19.13 | 19.18 | 19.27 | 19.39 | 19.47 | 19.55 | 19.62 | 19.68 | 0.4% |
| Small Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |

**Table 57. New Light-Duty Vehicle Fuel Economy**
**(Miles per Gallon)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Liquefied Petroleum Gas (LPG) | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Subcompact Cars | 31.91 | 32.04 | 32.16 | 32.26 | 32.34 | 32.41 | 32.46 | 32.54 | 32.66 | 32.74 | 32.81 | 32.87 | 32.91 | 0.1% |
| Compact Cars | 31.49 | 31.63 | 31.75 | 31.81 | 31.87 | 31.90 | 31.94 | 31.99 | 32.08 | 32.14 | 32.20 | 32.24 | 32.27 | 0.1% |
| Midsize Cars | 27.75 | 27.83 | 27.91 | 27.99 | 28.07 | 28.11 | 28.15 | 28.21 | 28.29 | 28.34 | 28.40 | 28.44 | 28.47 | 0.1% |
| Large Cars | 25.86 | 26.00 | 26.11 | 26.21 | 26.30 | 26.37 | 26.43 | 26.49 | 26.58 | 26.66 | 26.73 | 26.78 | 26.81 | 0.1% |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Pickup | 23.78 | 23.96 | 24.16 | 24.35 | 24.51 | 24.62 | 24.73 | 24.87 | 25.04 | 25.16 | 25.26 | 25.34 | 25.41 | 0.4% |
| Large Pickup | 20.06 | 20.19 | 20.33 | 20.47 | 20.60 | 20.71 | 20.80 | 20.89 | 21.02 | 21.11 | 21.21 | 21.27 | 21.32 | 0.4% |
| Small Van | 24.03 | 24.13 | 24.22 | 24.33 | 24.40 | 24.49 | 24.57 | 24.67 | 24.82 | 24.92 | 25.03 | 25.10 | 25.18 | 0.2% |
| Large Van | 19.50 | 19.67 | 19.81 | 19.96 | 20.09 | 20.20 | 20.28 | 20.39 | 20.54 | 20.67 | 20.76 | 20.85 | 20.93 | 0.5% |
| Small Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Large Utility | 18.85 | 18.98 | 19.09 | 19.22 | 19.33 | 19.41 | 19.49 | 19.59 | 19.73 | 19.81 | 19.91 | 19.99 | 20.06 | 0.4% |
| LPG Bi-Fuel | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compact Cars | 30.47 | 30.63 | 30.70 | 30.76 | 30.81 | 30.85 | 30.87 | 30.92 | 31.01 | 31.07 | 31.12 | 31.15 | 31.17 | 0.1% |
| Midsize Cars | 26.80 | 26.88 | 26.96 | 27.03 | 27.09 | 27.13 | 27.16 | 27.20 | 27.27 | 27.32 | 27.37 | 27.41 | 27.43 | 0.1% |
| Large Cars | 24.95 | 25.09 | 25.19 | 25.28 | 25.37 | 25.44 | 25.49 | 25.55 | 25.65 | 25.72 | 25.79 | 25.83 | 25.86 | 0.1% |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Pickup | 22.98 | 23.15 | 23.35 | 23.50 | 23.66 | 23.78 | 23.89 | 24.02 | 24.19 | 24.30 | 24.40 | 24.46 | 24.51 | 0.4% |
| Large Pickup | 19.31 | 19.43 | 19.56 | 19.69 | 19.80 | 19.90 | 19.96 | 20.04 | 20.16 | 20.25 | 20.32 | 20.37 | 20.43 | 0.3% |
| Small Van | 23.18 | 23.28 | 23.38 | 23.49 | 23.57 | 23.65 | 23.73 | 23.84 | 23.99 | 24.09 | 24.19 | 24.26 | 24.32 | 0.2% |
| Large Van | 18.83 | 18.96 | 19.09 | 19.22 | 19.35 | 19.46 | 19.53 | 19.63 | 19.77 | 19.86 | 19.95 | 20.04 | 20.12 | 0.4% |
| Small Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Large Utility | 18.12 | 18.24 | 18.35 | 18.47 | 18.58 | 18.66 | 18.73 | 18.83 | 18.96 | 19.03 | 19.12 | 19.18 | 19.25 | 0.4% |
| Electric | | | | | | | | | | | | | | |
| Mini-compact Cars | 42.83 | 42.79 | 42.77 | 42.74 | 42.71 | 42.68 | 42.64 | 42.62 | 42.64 | 42.67 | 42.70 | 42.72 | 42.74 | 1.9% |
| Subcompact Cars | 53.31 | 53.28 | 53.25 | 53.21 | 53.18 | 53.14 | 53.11 | 53.07 | 53.11 | 53.14 | 53.17 | 53.19 | 53.22 | 1.8% |
| Compact Cars | 52.20 | 52.17 | 52.14 | 52.10 | 52.07 | 52.04 | 52.01 | 51.97 | 52.01 | 52.04 | 52.07 | 52.10 | 52.12 | 1.8% |
| Midsize Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Large Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Two Seater Cars | 49.25 | 49.21 | 49.18 | 49.15 | 49.12 | 49.09 | 49.06 | 49.02 | 49.06 | 49.09 | 49.12 | 49.14 | 49.16 | 1.8% |
| Small Pickup | 40.31 | 40.26 | 40.21 | 40.15 | 40.09 | 40.04 | 39.98 | 39.92 | 39.93 | 39.95 | 39.96 | 39.96 | 39.96 | 1.8% |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Van | 36.19 | 36.15 | 36.10 | 36.05 | 36.00 | 35.95 | 35.90 | 35.85 | 35.87 | 35.89 | 35.92 | 35.94 | 35.96 | 1.8% |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Diesel-Electric Hybrid | | | | | | | | | | | | | | |
| Mini-compact Cars | 37.99 | 37.97 | 37.97 | 37.97 | 37.97 | 37.97 | 37.96 | 37.96 | 38.01 | 38.04 | 38.07 | 38.09 | 38.10 | -0.1% |
| Subcompact Cars | 46.72 | 46.67 | 46.63 | 46.60 | 46.58 | 46.56 | 46.53 | 46.51 | 46.55 | 46.57 | 46.59 | 46.60 | 46.61 | -0.2% |
| Compact Cars | 45.64 | 45.57 | 45.51 | 45.47 | 45.43 | 45.39 | 45.34 | 45.31 | 45.33 | 45.33 | 45.33 | 45.31 | 45.31 | -0.3% |
| Midsize Cars | 40.25 | 40.20 | 40.15 | 40.12 | 40.10 | 40.06 | 40.02 | 40.00 | 40.02 | 40.03 | 40.04 | 40.03 | 40.02 | -0.3% |
| Large Cars | 38.24 | 38.24 | 38.24 | 38.24 | 38.25 | 38.26 | 38.25 | 38.26 | 38.31 | 38.34 | 38.37 | 38.39 | 38.40 | -0.2% |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Van | 35.14 | 35.12 | 35.10 | 35.09 | 35.09 | 35.09 | 35.08 | 35.09 | 35.16 | 35.22 | 35.27 | 35.30 | 35.33 | -0.2% |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Utility | 32.27 | 32.29 | 32.31 | 32.33 | 32.36 | 32.38 | 32.40 | 32.44 | 32.53 | 32.60 | 32.67 | 32.72 | 32.77 | -0.1% |
| Large Utility | 26.89 | 26.91 | 26.94 | 26.99 | 27.03 | 27.05 | 27.08 | 27.11 | 27.17 | 27.24 | 27.30 | 27.34 | 27.39 | -0.1% |
| Gasoline-Electric Hybrid | | | | | | | | | | | | | | |

**Table 57. New Light-Duty Vehicle Fuel Economy**
**(Miles per Gallon)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mini-compact Cars | 34.79 | 34.79 | 34.80 | 34.81 | 34.82 | 34.82 | 34.82 | 34.83 | 34.88 | 34.92 | 34.96 | 34.98 | 35.00 | -0.1% |
| Subcompact Cars | 42.84 | 42.81 | 42.78 | 42.77 | 42.77 | 42.76 | 42.74 | 42.74 | 42.79 | 42.82 | 42.84 | 42.85 | 42.87 | -0.2% |
| Compact Cars | 42.05 | 42.00 | 41.96 | 41.94 | 41.92 | 41.89 | 41.85 | 41.83 | 41.86 | 41.88 | 41.89 | 41.88 | 41.89 | -0.2% |
| Midsize Cars | 36.97 | 36.94 | 36.92 | 36.91 | 36.90 | 36.88 | 36.85 | 36.84 | 36.86 | 36.88 | 36.89 | 36.88 | 36.89 | -0.2% |
| Large Cars | 34.79 | 34.81 | 34.82 | 34.84 | 34.86 | 34.87 | 34.88 | 34.90 | 34.96 | 34.99 | 35.03 | 35.05 | 35.07 | -0.2% |
| Two Seater Cars | 34.79 | 34.81 | 34.82 | 34.84 | 34.85 | 34.86 | 34.86 | 34.87 | 34.92 | 34.96 | 35.00 | 35.02 | 35.03 | -0.1% |
| Small Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Van | 31.82 | 31.82 | 31.81 | 31.82 | 31.84 | 31.84 | 31.84 | 31.87 | 31.95 | 32.01 | 32.07 | 32.11 | 32.14 | -0.2% |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Utility | 29.20 | 29.23 | 29.26 | 29.29 | 29.33 | 29.35 | 29.38 | 29.43 | 29.52 | 29.59 | 29.66 | 29.72 | 29.77 | -0.1% |
| Large Utility | 24.50 | 24.53 | 24.55 | 24.59 | 24.64 | 24.65 | 24.67 | 24.72 | 24.83 | 24.91 | 24.98 | 25.03 | 25.08 | 0.0% |
| Fuel Cell Methanol | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compact Cars | 53.09 | 53.06 | 53.03 | 52.99 | 52.96 | 52.93 | 52.89 | 52.86 | 52.90 | 52.93 | 52.96 | 52.99 | 53.01 | -0.3% |
| Midsize Cars | 45.49 | 45.45 | 45.42 | 45.39 | 45.36 | 45.33 | 45.30 | 45.26 | 45.29 | 45.32 | 45.35 | 45.36 | 45.38 | -0.3% |
| Large Cars | 40.87 | 40.84 | 40.81 | 40.78 | 40.75 | 40.73 | 40.70 | 40.67 | 40.69 | 40.72 | 40.73 | 40.75 | 40.77 | -0.3% |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Van | 36.81 | 36.76 | 36.72 | 36.67 | 36.62 | 36.56 | 36.51 | 36.46 | 36.48 | 36.51 | 36.53 | 36.56 | 36.58 | -0.3% |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Utility | 38.80 | 38.75 | 38.70 | 38.64 | 38.58 | 38.52 | 38.46 | 38.40 | 38.43 | 38.45 | 38.47 | 38.49 | 38.51 | -0.3% |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Hydrogen | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compact Cars | 58.22 | 58.18 | 58.14 | 58.11 | 58.07 | 58.03 | 58.00 | 57.96 | 58.00 | 58.04 | 58.07 | 58.10 | 58.12 | -0.3% |
| Midsize Cars | 49.87 | 49.84 | 49.80 | 49.77 | 49.74 | 49.70 | 49.67 | 49.63 | 49.66 | 49.69 | 49.72 | 49.74 | 49.76 | -0.3% |
| Large Cars | 44.82 | 44.79 | 44.75 | 44.71 | 44.68 | 44.66 | 44.63 | 44.59 | 44.62 | 44.64 | 44.66 | 44.69 | 44.71 | -0.3% |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Van | 40.36 | 40.31 | 40.26 | 40.21 | 40.15 | 40.09 | 40.03 | 39.98 | 40.00 | 40.03 | 40.06 | 40.08 | 40.11 | -0.3% |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Utility | 42.55 | 42.49 | 42.43 | 42.37 | 42.30 | 42.23 | 42.17 | 42.11 | 42.13 | 42.16 | 42.18 | 42.21 | 42.23 | -0.3% |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cell Gasoline | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Subcompact Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Compact Cars | 49.75 | 49.72 | 49.69 | 49.66 | 49.63 | 49.59 | 49.56 | 49.53 | 49.57 | 49.60 | 49.63 | 49.65 | 49.67 | -0.3% |
| Midsize Cars | 42.62 | 42.59 | 42.56 | 42.53 | 42.51 | 42.47 | 42.45 | 42.41 | 42.44 | 42.47 | 42.49 | 42.51 | 42.53 | -0.3% |
| Large Cars | 38.30 | 38.27 | 38.24 | 38.21 | 38.19 | 38.16 | 38.14 | 38.11 | 38.13 | 38.15 | 38.17 | 38.19 | 38.21 | -0.3% |
| Two Seater Cars | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Large Pickup | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Van | 34.49 | 34.45 | 34.41 | 34.36 | 34.31 | 34.26 | 34.21 | 34.16 | 34.18 | 34.21 | 34.23 | 34.25 | 34.27 | -0.3% |
| Large Van | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Small Utility | 36.36 | 36.31 | 36.26 | 36.20 | 36.15 | 36.09 | 36.04 | 35.99 | 36.01 | 36.03 | 36.05 | 36.07 | 36.09 | -0.3% |
| Large Utility | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |

**Table 57. New Light-Duty Vehicle Fuel Economy**
**(Miles per Gallon)**

Sources: 2001 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); National Highway Traffic and Safety Administration, Mid-Model Year Fuel Economy Reports from Auto Manufacturers, 2000; and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 58. New Light-Duty Vehicle Prices**
**(Thousand 2001 Dollars)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline | | | | | | | | | | | | | |
| Mini-compact Cars | 53.4 | 53.4 | 53.5 | 53.5 | 53.5 | 53.7 | 53.9 | 54.1 | 54.2 | 54.3 | 54.3 | 54.4 | 54.4 |
| Subcompact Cars | 18.4 | 18.4 | 18.5 | 18.5 | 18.5 | 18.7 | 18.9 | 19.0 | 19.1 | 19.2 | 19.2 | 19.3 | 19.3 |
| Compact Cars | 18.6 | 18.6 | 18.7 | 18.7 | 18.8 | 18.9 | 19.1 | 19.3 | 19.4 | 19.5 | 19.5 | 19.6 | 19.6 |
| Midsize Cars | 25.0 | 25.0 | 25.1 | 25.1 | 25.1 | 25.3 | 25.5 | 25.7 | 25.8 | 25.9 | 25.9 | 26.0 | 26.0 |
| Large Cars | 29.5 | 29.6 | 29.6 | 29.6 | 29.6 | 29.8 | 30.0 | 30.1 | 30.2 | 30.2 | 30.3 | 30.3 | 30.4 |
| Two Seater Cars | 42.5 | 42.5 | 42.6 | 42.6 | 42.6 | 42.7 | 42.9 | 43.1 | 43.2 | 43.2 | 43.3 | 43.3 | 43.4 |
| Small Pickup | 17.4 | 17.5 | 17.5 | 17.5 | 17.6 | 17.6 | 18.1 | 18.2 | 18.4 | 18.4 | 18.5 | 18.5 | 18.6 |
| Large Pickup | 24.3 | 24.4 | 24.4 | 24.4 | 24.4 | 24.5 | 24.9 | 25.1 | 25.2 | 25.3 | 25.3 | 25.4 | 25.4 |
| Small Van | 25.7 | 25.7 | 25.8 | 25.8 | 25.8 | 25.8 | 26.3 | 26.4 | 26.6 | 26.6 | 26.7 | 26.7 | 26.8 |
| Large Van | 22.0 | 22.0 | 22.1 | 22.1 | 22.1 | 22.2 | 22.6 | 22.8 | 22.9 | 23.0 | 23.0 | 23.1 | 23.1 |
| Small Utility | 26.6 | 26.7 | 26.7 | 26.7 | 26.8 | 26.8 | 27.3 | 27.4 | 27.6 | 27.6 | 27.7 | 27.7 | 27.8 |
| Large Utility | 34.1 | 34.2 | 34.2 | 34.2 | 34.3 | 34.3 | 34.8 | 34.9 | 35.0 | 35.1 | 35.2 | 35.2 | 35.3 |
| Turbo Direct Injection Diesel | | | | | | | | | | | | | |
| Mini-compact Cars | 54.9 | 54.9 | 55.0 | 55.0 | 55.0 | 55.2 | 55.4 | 55.5 | 55.6 | 55.7 | 55.7 | 55.7 | 55.7 |
| Subcompact Cars | 19.9 | 19.9 | 20.0 | 20.0 | 20.0 | 20.2 | 20.3 | 20.5 | 20.6 | 20.6 | 20.7 | 20.7 | 20.8 |
| Compact Cars | 20.1 | 20.1 | 20.2 | 20.2 | 20.2 | 20.4 | 20.5 | 20.7 | 20.8 | 20.8 | 20.9 | 20.9 | 21.0 |
| Midsize Cars | 27.3 | 27.2 | 27.3 | 27.3 | 27.3 | 27.5 | 27.7 | 27.8 | 27.9 | 28.0 | 28.0 | 28.1 | 28.1 |
| Large Cars | 31.8 | 31.8 | 31.9 | 31.9 | 31.9 | 32.0 | 32.2 | 32.3 | 32.4 | 32.5 | 32.5 | 32.5 | 32.6 |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Pickup | 20.5 | 19.9 | 20.0 | 20.0 | 20.0 | 20.1 | 20.5 | 20.7 | 20.8 | 20.8 | 20.9 | 20.9 | 21.0 |
| Large Pickup | 26.6 | 25.9 | 25.9 | 25.9 | 26.0 | 26.0 | 26.4 | 26.6 | 26.7 | 26.7 | 26.8 | 26.8 | 26.9 |
| Small Van | 28.7 | 27.9 | 28.0 | 27.9 | 27.9 | 28.0 | 28.4 | 28.6 | 28.7 | 28.7 | 28.7 | 28.8 | 28.8 |
| Large Van | 24.3 | 24.0 | 24.1 | 24.1 | 24.1 | 24.1 | 24.6 | 24.7 | 24.8 | 24.9 | 24.9 | 25.0 | 25.0 |
| Small Utility | 29.6 | 28.7 | 28.7 | 28.7 | 28.8 | 28.8 | 29.2 | 29.4 | 29.5 | 29.6 | 29.6 | 29.7 | 29.7 |
| Large Utility | 36.4 | 35.7 | 35.7 | 35.7 | 35.8 | 35.8 | 36.2 | 36.4 | 36.5 | 36.5 | 36.6 | 36.6 | 36.7 |
| Methanol | | | | | | | | | | | | | |
| Mini-compact Cars | 55.4 | 55.4 | 55.4 | 55.5 | 55.5 | 55.6 | 55.9 | 56.0 | 56.2 | 56.2 | 56.3 | 56.3 | 56.3 |
| Subcompact Cars | 20.3 | 20.4 | 20.4 | 20.4 | 20.5 | 20.6 | 20.8 | 20.9 | 21.1 | 21.1 | 21.2 | 21.2 | 21.2 |
| Compact Cars | 20.6 | 20.6 | 20.7 | 20.7 | 20.7 | 20.9 | 21.1 | 21.2 | 21.4 | 21.4 | 21.5 | 21.5 | 21.6 |
| Midsize Cars | 27.1 | 27.2 | 27.2 | 27.2 | 27.3 | 27.4 | 27.6 | 27.8 | 27.9 | 28.0 | 28.0 | 28.1 | 28.1 |
| Large Cars | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.9 | 32.1 | 32.2 | 32.3 | 32.3 | 32.4 | 32.4 | 32.5 |
| Two Seater Cars | 44.5 | 44.5 | 44.5 | 44.5 | 44.5 | 44.7 | 44.9 | 45.0 | 45.1 | 45.2 | 45.2 | 45.3 | 45.3 |
| Small Pickup | 19.7 | 19.8 | 19.8 | 19.8 | 19.9 | 19.9 | 20.4 | 20.5 | 20.6 | 20.7 | 20.7 | 20.8 | 20.8 |
| Large Pickup | 26.5 | 26.5 | 26.6 | 26.6 | 26.6 | 26.6 | 27.0 | 27.2 | 27.3 | 27.3 | 27.4 | 27.4 | 27.5 |
| Small Van | 28.0 | 28.0 | 28.1 | 28.1 | 28.1 | 28.1 | 28.6 | 28.7 | 28.8 | 28.9 | 28.9 | 29.0 | 29.0 |
| Large Van | 24.1 | 24.2 | 24.2 | 24.2 | 24.2 | 24.3 | 24.7 | 24.9 | 25.0 | 25.1 | 25.1 | 25.1 | 25.2 |
| Small Utility | 28.9 | 29.0 | 29.0 | 29.0 | 29.0 | 29.1 | 29.5 | 29.6 | 29.8 | 29.8 | 29.8 | 29.9 | 29.9 |
| Large Utility | 36.3 | 36.3 | 36.4 | 36.4 | 36.4 | 36.4 | 36.9 | 37.0 | 37.1 | 37.2 | 37.2 | 37.3 | 37.3 |
| Methanol Flex | | | | | | | | | | | | | |
| Mini-compact Cars | 55.5 | 55.5 | 55.6 | 55.6 | 55.6 | 55.8 | 56.0 | 56.2 | 56.3 | 56.4 | 56.4 | 56.4 | 56.5 |
| Subcompact Cars | 20.4 | 20.5 | 20.6 | 20.6 | 20.6 | 20.7 | 20.9 | 21.1 | 21.2 | 21.2 | 21.3 | 21.3 | 21.4 |
| Compact Cars | 20.7 | 20.7 | 20.8 | 20.8 | 20.8 | 21.0 | 21.2 | 21.4 | 21.5 | 21.5 | 21.6 | 21.7 | 21.7 |
| Midsize Cars | 27.3 | 27.3 | 27.4 | 27.4 | 27.4 | 27.6 | 27.8 | 28.0 | 28.1 | 28.1 | 28.2 | 28.3 | 28.3 |
| Large Cars | 31.9 | 31.9 | 31.9 | 31.9 | 31.9 | 32.1 | 32.3 | 32.4 | 32.5 | 32.5 | 32.6 | 32.6 | 32.7 |
| Two Seater Cars | 44.6 | 44.6 | 44.6 | 44.6 | 44.7 | 44.8 | 45.0 | 45.2 | 45.3 | 45.3 | 45.4 | 45.4 | 45.4 |

**Table 58. New Light-Duty Vehicle Prices**
**(Thousand 2001 Dollars)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Small Pickup | 20.0 | 20.0 | 20.1 | 20.1 | 20.1 | 20.1 | 20.6 | 20.7 | 20.9 | 20.9 | 21.0 | 21.0 | 21.1 |
| Large Pickup | 26.6 | 26.7 | 26.7 | 26.7 | 26.7 | 26.8 | 27.2 | 27.4 | 27.5 | 27.6 | 27.6 | 27.7 | 27.7 |
| Small Van | 28.2 | 28.2 | 28.3 | 28.3 | 28.3 | 28.4 | 28.8 | 29.0 | 29.1 | 29.1 | 29.2 | 29.2 | 29.3 |
| Large Van | 24.3 | 24.3 | 24.4 | 24.4 | 24.4 | 24.5 | 24.9 | 25.1 | 25.2 | 25.3 | 25.3 | 25.4 | 25.4 |
| Small Utility | 29.1 | 29.2 | 29.3 | 29.3 | 29.3 | 29.3 | 29.8 | 29.9 | 30.1 | 30.1 | 30.1 | 30.2 | 30.2 |
| Large Utility | 36.4 | 36.5 | 36.5 | 36.5 | 36.6 | 36.6 | 37.1 | 37.2 | 37.3 | 37.4 | 37.5 | 37.5 | 37.6 |
| Ethanol | | | | | | | | | | | | | |
| Mini-compact Cars | 55.4 | 55.4 | 55.4 | 55.5 | 55.5 | 55.7 | 55.9 | 56.0 | 56.2 | 56.2 | 56.3 | 56.3 | 56.3 |
| Subcompact Cars | 20.3 | 20.4 | 20.4 | 20.4 | 20.5 | 20.6 | 20.8 | 20.9 | 21.1 | 21.1 | 21.2 | 21.2 | 21.3 |
| Compact Cars | 20.6 | 20.6 | 20.7 | 20.7 | 20.7 | 20.9 | 21.1 | 21.2 | 21.4 | 21.4 | 21.5 | 21.5 | 21.6 |
| Midsize Cars | 27.1 | 27.2 | 27.2 | 27.2 | 27.3 | 27.4 | 27.6 | 27.8 | 27.9 | 28.0 | 28.0 | 28.1 | 28.1 |
| Large Cars | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.9 | 32.1 | 32.2 | 32.3 | 32.4 | 32.4 | 32.5 | 32.5 |
| Two Seater Cars | 44.5 | 44.5 | 44.5 | 44.5 | 44.6 | 44.7 | 44.9 | 45.0 | 45.2 | 45.2 | 45.2 | 45.3 | 45.3 |
| Small Pickup | 19.7 | 19.8 | 19.8 | 19.8 | 19.9 | 19.9 | 20.4 | 20.5 | 20.6 | 20.7 | 20.8 | 20.8 | 20.8 |
| Large Pickup | 26.5 | 26.5 | 26.6 | 26.6 | 26.6 | 26.6 | 27.1 | 27.2 | 27.3 | 27.4 | 27.4 | 27.5 | 27.5 |
| Small Van | 28.0 | 28.0 | 28.1 | 28.1 | 28.1 | 28.1 | 28.6 | 28.7 | 28.8 | 28.9 | 28.9 | 29.0 | 29.0 |
| Large Van | 24.1 | 24.2 | 24.2 | 24.2 | 24.2 | 24.3 | 24.7 | 24.9 | 25.0 | 25.1 | 25.1 | 25.2 | 25.2 |
| Small Utility | 28.9 | 29.0 | 29.0 | 29.0 | 29.0 | 29.1 | 29.5 | 29.7 | 29.8 | 29.8 | 29.9 | 29.9 | 30.0 |
| Large Utility | 36.3 | 36.3 | 36.4 | 36.4 | 36.4 | 36.4 | 36.9 | 37.0 | 37.2 | 37.2 | 37.3 | 37.3 | 37.4 |
| Ethanol Flex | | | | | | | | | | | | | |
| Mini-compact Cars | 55.5 | 55.5 | 55.6 | 55.6 | 55.6 | 55.8 | 56.0 | 56.2 | 56.3 | 56.4 | 56.4 | 56.4 | 56.5 |
| Subcompact Cars | 20.4 | 19.8 | 19.9 | 19.8 | 19.9 | 20.1 | 20.2 | 20.4 | 20.5 | 20.5 | 20.6 | 20.6 | 20.6 |
| Compact Cars | 20.7 | 19.4 | 19.5 | 19.4 | 19.5 | 19.7 | 19.9 | 20.0 | 20.1 | 20.2 | 20.2 | 20.3 | 20.3 |
| Midsize Cars | 27.3 | 25.4 | 25.4 | 25.4 | 25.5 | 25.6 | 25.9 | 26.0 | 26.1 | 26.2 | 26.3 | 26.3 | 26.4 |
| Large Cars | 31.9 | 30.4 | 30.5 | 30.6 | 30.5 | 30.7 | 30.9 | 31.0 | 31.1 | 31.2 | 31.2 | 31.2 | 31.3 |
| Two Seater Cars | 44.6 | 44.6 | 44.6 | 44.7 | 44.7 | 44.8 | 45.0 | 45.2 | 45.3 | 45.3 | 45.4 | 45.4 | 45.4 |
| Small Pickup | 20.0 | 19.3 | 19.4 | 19.5 | 19.4 | 19.5 | 20.0 | 20.1 | 20.2 | 20.2 | 20.3 | 20.3 | 20.4 |
| Large Pickup | 26.6 | 25.4 | 25.5 | 25.5 | 25.5 | 25.6 | 26.0 | 26.1 | 26.3 | 26.3 | 26.3 | 26.4 | 26.4 |
| Small Van | 28.2 | 26.9 | 26.9 | 26.8 | 26.9 | 27.0 | 27.4 | 27.5 | 27.6 | 27.6 | 27.7 | 27.7 | 27.7 |
| Large Van | 24.3 | 24.3 | 24.4 | 24.4 | 24.4 | 24.5 | 24.9 | 25.1 | 25.2 | 25.3 | 25.3 | 25.4 | 25.4 |
| Small Utility | 29.1 | 27.0 | 27.1 | 27.1 | 27.1 | 27.2 | 27.6 | 27.8 | 27.9 | 28.0 | 28.0 | 28.0 | 28.1 |
| Large Utility | 36.4 | 34.8 | 34.9 | 34.9 | 34.9 | 35.0 | 35.4 | 35.5 | 35.7 | 35.7 | 35.7 | 35.8 | 35.8 |
| Compressed Natural Gas (CNG) | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compact Cars | 24.7 | 24.8 | 24.8 | 24.9 | 24.9 | 25.1 | 25.3 | 25.4 | 25.6 | 25.6 | 25.7 | 25.7 | 25.8 |
| Midsize Cars | 31.4 | 31.5 | 31.5 | 31.5 | 31.6 | 31.8 | 32.0 | 32.1 | 32.2 | 32.3 | 32.4 | 32.4 | 32.5 |
| Large Cars | 36.0 | 36.0 | 36.0 | 36.0 | 36.1 | 36.2 | 36.4 | 36.5 | 36.6 | 36.7 | 36.7 | 36.8 | 36.8 |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Pickup | 24.2 | 24.2 | 24.3 | 24.3 | 24.3 | 24.4 | 24.9 | 25.0 | 25.2 | 25.2 | 25.3 | 25.3 | 25.4 |
| Large Pickup | 30.8 | 30.8 | 30.9 | 30.9 | 30.9 | 30.9 | 31.4 | 31.6 | 31.7 | 31.7 | 31.8 | 31.9 | 31.9 |
| Small Van | 32.5 | 32.5 | 32.5 | 32.6 | 32.6 | 32.6 | 33.1 | 33.2 | 33.4 | 33.4 | 33.5 | 33.5 | 33.6 |
| Large Van | 28.4 | 28.5 | 28.5 | 28.5 | 28.6 | 28.6 | 29.1 | 29.2 | 29.4 | 29.4 | 29.5 | 29.5 | 29.6 |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| CNG Bi-Fuel | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compact Cars | 23.6 | 23.6 | 23.7 | 23.7 | 23.8 | 23.9 | 24.2 | 24.3 | 24.5 | 24.5 | 24.6 | 24.7 | 24.7 |

**Table 58. New Light-Duty Vehicle Prices**
**(Thousand 2001 Dollars)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Midsize Cars | 30.5 | 30.5 | 30.6 | 30.6 | 30.6 | 30.8 | 31.0 | 31.2 | 31.3 | 31.4 | 31.5 | 31.5 | 31.6 |
| Large Cars | 35.0 | 35.1 | 35.1 | 35.1 | 35.1 | 35.3 | 35.5 | 35.6 | 35.7 | 35.7 | 35.8 | 35.8 | 35.9 |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Pickup | 23.4 | 23.5 | 23.6 | 23.6 | 23.6 | 23.6 | 24.1 | 24.3 | 24.4 | 24.5 | 24.6 | 24.6 | 24.7 |
| Large Pickup | 29.8 | 29.9 | 29.9 | 29.9 | 30.0 | 30.0 | 30.5 | 30.6 | 30.8 | 30.8 | 30.9 | 31.0 | 31.0 |
| Small Van | 31.7 | 31.7 | 31.8 | 31.8 | 31.8 | 31.9 | 32.3 | 32.5 | 32.6 | 32.7 | 32.7 | 32.8 | 32.9 |
| Large Van | 27.5 | 27.5 | 27.6 | 27.6 | 27.6 | 27.7 | 28.1 | 28.3 | 28.4 | 28.5 | 28.6 | 28.6 | 28.7 |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Liquefied Petroleum Gas (LPG) | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Subcompact Cars | 23.0 | 23.0 | 23.1 | 23.1 | 23.1 | 23.3 | 23.5 | 23.6 | 23.8 | 23.8 | 23.9 | 23.9 | 24.0 |
| Compact Cars | 23.3 | 23.3 | 23.4 | 23.4 | 23.4 | 23.6 | 23.8 | 23.9 | 24.1 | 24.1 | 24.2 | 24.2 | 24.3 |
| Midsize Cars | 30.7 | 30.8 | 30.9 | 30.9 | 30.9 | 31.1 | 31.3 | 31.4 | 31.5 | 31.6 | 31.7 | 31.7 | 31.8 |
| Large Cars | 35.3 | 35.3 | 35.4 | 35.4 | 35.4 | 35.5 | 35.7 | 35.8 | 35.9 | 36.0 | 36.0 | 36.1 | 36.1 |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Pickup | 24.3 | 24.3 | 24.4 | 24.4 | 24.5 | 24.5 | 25.0 | 25.1 | 25.2 | 25.3 | 25.4 | 25.4 | 25.5 |
| Large Pickup | 30.1 | 30.1 | 30.2 | 30.2 | 30.2 | 30.2 | 30.7 | 30.8 | 31.0 | 31.0 | 31.1 | 31.1 | 31.2 |
| Small Van | 32.6 | 32.6 | 32.7 | 32.7 | 32.7 | 32.7 | 33.2 | 33.3 | 33.4 | 33.5 | 33.5 | 33.6 | 33.6 |
| Large Van | 27.8 | 27.8 | 27.9 | 27.9 | 27.9 | 27.9 | 28.4 | 28.5 | 28.7 | 28.7 | 28.8 | 28.8 | 28.9 |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Large Utility | 39.9 | 39.9 | 40.0 | 40.0 | 40.0 | 40.0 | 40.5 | 40.7 | 40.8 | 40.9 | 40.9 | 41.0 | 41.0 |
| LPG Bi-Fuel | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compact Cars | 23.1 | 23.1 | 23.2 | 23.2 | 23.3 | 23.4 | 23.6 | 23.8 | 23.9 | 24.0 | 24.1 | 24.1 | 24.2 |
| Midsize Cars | 29.7 | 29.7 | 29.8 | 29.8 | 29.8 | 30.0 | 30.2 | 30.4 | 30.5 | 30.6 | 30.6 | 30.7 | 30.8 |
| Large Cars | 34.2 | 34.2 | 34.3 | 34.3 | 34.3 | 34.4 | 34.6 | 34.8 | 34.9 | 34.9 | 35.0 | 35.0 | 35.1 |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Pickup | 22.3 | 22.4 | 22.4 | 22.4 | 22.5 | 22.5 | 23.0 | 23.1 | 23.3 | 23.3 | 23.4 | 23.4 | 23.5 |
| Large Pickup | 29.0 | 29.0 | 29.1 | 29.1 | 29.1 | 29.2 | 29.6 | 29.8 | 29.9 | 30.0 | 30.1 | 30.1 | 30.2 |
| Small Van | 30.6 | 30.6 | 30.7 | 30.7 | 30.7 | 30.7 | 31.2 | 31.3 | 31.5 | 31.5 | 31.6 | 31.6 | 31.7 |
| Large Van | 26.7 | 26.7 | 26.8 | 26.8 | 26.8 | 26.9 | 27.3 | 27.5 | 27.6 | 27.7 | 27.7 | 27.8 | 27.9 |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Large Utility | 38.8 | 38.9 | 38.9 | 38.9 | 38.9 | 39.0 | 39.4 | 39.6 | 39.7 | 39.8 | 39.9 | 39.9 | 40.0 |
| Electric | | | | | | | | | | | | | |
| Mini-compact Cars | 78.6 | 78.5 | 78.1 | 77.7 | 77.6 | 78.3 | 79.0 | 79.6 | 79.4 | 79.0 | 78.6 | 78.3 | 77.9 |
| Subcompact Cars | 41.4 | 41.3 | 41.0 | 40.7 | 40.6 | 41.1 | 41.7 | 42.2 | 42.0 | 41.7 | 41.4 | 41.1 | 40.9 |
| Compact Cars | 41.8 | 41.7 | 41.4 | 41.1 | 41.0 | 41.6 | 42.1 | 42.7 | 42.5 | 42.2 | 41.9 | 41.6 | 41.3 |
| Midsize Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Large Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Two Seater Cars | 66.2 | 66.2 | 65.8 | 65.5 | 65.4 | 66.0 | 66.6 | 67.2 | 67.0 | 66.6 | 66.3 | 64.6 | 63.3 |
| Small Pickup | 43.1 | 43.0 | 42.6 | 42.2 | 42.1 | 42.8 | 43.6 | 44.3 | 44.1 | 43.7 | 43.3 | 43.0 | 42.6 |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Van | 52.6 | 52.6 | 52.1 | 51.7 | 51.6 | 52.3 | 53.1 | 51.9 | 51.1 | 49.7 | 49.9 | 48.6 | 48.8 |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Diesel-Electric Hybrid | | | | | | | | | | | | | |

**Table 58. New Light-Duty Vehicle Prices**
**(Thousand 2001 Dollars)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mini-compact Cars | 64.2 | 63.3 | 62.4 | 61.5 | 60.5 | 60.6 | 60.6 | 60.7 | 60.7 | 60.6 | 60.6 | 60.5 | 60.5 |
| Subcompact Cars | 27.7 | 27.0 | 26.3 | 25.6 | 24.8 | 24.9 | 25.0 | 25.0 | 25.0 | 25.0 | 24.9 | 24.8 | 24.7 |
| Compact Cars | 28.1 | 27.3 | 26.7 | 25.9 | 25.1 | 25.2 | 25.3 | 24.9 | 24.2 | 24.1 | 24.0 | 23.9 | 23.8 |
| Midsize Cars | 36.1 | 35.2 | 34.4 | 33.5 | 32.4 | 32.5 | 31.7 | 30.6 | 29.8 | 29.7 | 29.6 | 29.5 | 29.4 |
| Large Cars | 41.4 | 40.5 | 39.5 | 38.5 | 37.5 | 37.5 | 37.6 | 37.1 | 36.2 | 36.1 | 36.0 | 35.8 | 35.7 |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Van | 39.0 | 38.0 | 36.9 | 35.9 | 34.7 | 34.6 | 34.9 | 34.9 | 33.9 | 33.7 | 33.6 | 33.4 | 33.3 |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Utility | 39.5 | 38.5 | 37.6 | 36.5 | 35.4 | 35.3 | 35.3 | 34.3 | 33.3 | 33.2 | 33.1 | 32.9 | 32.8 |
| Large Utility | 49.1 | 47.8 | 46.5 | 45.1 | 43.6 | 43.5 | 43.8 | 43.8 | 43.4 | 43.3 | 43.1 | 42.9 | 42.8 |
| | | | | | | | | | | | | | |
| Gasoline-Electric Hybrid | | | | | | | | | | | | | |
| Mini-compact Cars | 62.2 | 61.5 | 60.8 | 60.1 | 59.2 | 59.3 | 59.4 | 59.5 | 59.5 | 59.5 | 59.4 | 59.4 | 59.4 |
| Subcompact Cars | 26.0 | 25.4 | 24.9 | 23.7 | 22.7 | 22.8 | 22.3 | 21.6 | 21.1 | 21.1 | 21.1 | 21.1 | 21.0 |
| Compact Cars | 26.3 | 25.0 | 24.2 | 23.0 | 22.0 | 22.1 | 21.6 | 21.4 | 21.4 | 21.4 | 21.4 | 21.4 | 21.4 |
| Midsize Cars | 34.2 | 31.1 | 30.2 | 29.2 | 28.0 | 28.1 | 28.1 | 28.1 | 28.2 | 28.1 | 28.1 | 28.1 | 28.0 |
| Large Cars | 39.4 | 37.7 | 36.6 | 35.5 | 34.2 | 34.2 | 33.6 | 32.9 | 32.9 | 32.8 | 32.8 | 32.8 | 32.7 |
| Two Seater Cars | 50.5 | 49.9 | 49.3 | 48.6 | 47.9 | 48.0 | 48.1 | 48.2 | 47.9 | 47.8 | 47.7 | 47.6 | 47.6 |
| Small Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Van | 36.8 | 35.1 | 33.8 | 32.2 | 30.7 | 30.6 | 30.4 | 29.5 | 29.5 | 29.5 | 29.4 | 29.4 | 29.3 |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Utility | 37.4 | 34.6 | 33.5 | 32.1 | 30.7 | 30.6 | 30.3 | 30.3 | 30.3 | 30.3 | 30.2 | 30.2 | 30.1 |
| Large Utility | 46.5 | 45.4 | 44.1 | 42.4 | 40.6 | 40.5 | 40.2 | 39.4 | 38.8 | 38.7 | 38.7 | 38.6 | 38.5 |
| | | | | | | | | | | | | | |
| Fuel Cell Methanol | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 78.7 | 76.9 | 75.2 | 73.4 | 71.0 | 68.8 | 66.7 | 64.6 |
| Midsize Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 94.7 | 92.5 | 90.4 | 88.3 | 85.6 | 83.1 | 80.5 | 78.1 |
| Large Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 106.7 | 104.3 | 102.0 | 99.6 | 96.6 | 93.8 | 91.0 | 88.3 |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 109.9 | 108.1 | 105.6 | 103.0 | 99.7 | 96.6 | 93.5 | 90.6 |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 106.7 | 105.0 | 102.6 | 100.1 | 97.0 | 94.0 | 91.1 | 88.3 |
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | | | | | | |
| Fuel Cell Hydrogen | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 68.0 | 66.7 | 65.5 | 64.3 | 62.7 | 61.1 | 59.6 | 58.2 |
| Midsize Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 81.0 | 79.5 | 78.1 | 76.7 | 74.8 | 73.0 | 71.2 | 69.6 |
| Large Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.8 | 89.0 | 87.5 | 85.9 | 83.8 | 81.8 | 79.8 | 78.1 |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 91.8 | 90.5 | 88.8 | 87.1 | 84.8 | 82.6 | 80.4 | 78.5 |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 89.9 | 88.6 | 87.0 | 85.4 | 83.2 | 81.1 | 79.0 | 77.2 |

**Table 58. New Light-Duty Vehicle Prices**
**(Thousand 2001 Dollars)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | | | | | | |
| Fuel Cell Gasoline | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 87.4 | 85.4 | 83.3 | 81.3 | 78.6 | 76.0 | 73.5 | 71.1 |
| Midsize Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 104.9 | 102.4 | 99.9 | 97.5 | 94.4 | 91.4 | 88.5 | 85.8 |
| Large Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 118.0 | 115.3 | 112.6 | 109.9 | 106.4 | 103.1 | 99.9 | 96.8 |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 122.3 | 120.3 | 117.3 | 114.3 | 110.5 | 106.9 | 103.3 | 100.0 |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 118.5 | 116.5 | 113.7 | 110.9 | 107.3 | 103.8 | 100.4 | 97.3 |
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

**Table 58. New Light-Duty Vehicle Prices**
**(Thousand 2001 Dollars)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline | | | | | | | | | | | | | | |
| Mini-compact Cars | 54.4 | 54.5 | 54.5 | 54.6 | 54.6 | 54.6 | 54.6 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 54.7 | 0.1% |
| Subcompact Cars | 19.4 | 19.4 | 19.4 | 19.5 | 19.5 | 19.5 | 19.6 | 19.6 | 19.6 | 19.6 | 19.7 | 19.7 | 19.7 | 0.3% |
| Compact Cars | 19.7 | 19.7 | 19.8 | 19.8 | 19.9 | 19.9 | 19.9 | 19.9 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 0.3% |
| Midsize Cars | 26.1 | 26.1 | 26.2 | 26.2 | 26.3 | 26.3 | 26.3 | 26.4 | 26.4 | 26.4 | 26.4 | 26.5 | 26.5 | 0.2% |
| Large Cars | 30.4 | 30.5 | 30.5 | 30.6 | 30.6 | 30.6 | 30.7 | 30.7 | 30.7 | 30.8 | 30.8 | 30.8 | 30.8 | 0.2% |
| Two Seater Cars | 43.4 | 43.4 | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 43.6 | 0.1% |
| Small Pickup | 18.6 | 18.7 | 18.8 | 18.8 | 18.8 | 18.8 | 18.9 | 18.9 | 18.9 | 18.9 | 19.0 | 19.0 | 19.0 | 0.3% |
| Large Pickup | 25.5 | 25.6 | 25.6 | 25.7 | 25.7 | 25.7 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 25.9 | 25.9 | 0.3% |
| Small Van | 26.8 | 26.9 | 26.9 | 27.0 | 27.0 | 27.0 | 27.1 | 27.1 | 27.1 | 27.2 | 27.2 | 27.2 | 27.3 | 0.2% |
| Large Van | 23.2 | 23.3 | 23.3 | 23.4 | 23.4 | 23.5 | 23.5 | 23.5 | 23.6 | 23.6 | 23.6 | 23.7 | 23.7 | 0.3% |
| Small Utility | 27.8 | 27.9 | 27.9 | 27.9 | 28.0 | 28.0 | 28.1 | 28.1 | 28.1 | 28.2 | 28.2 | 28.2 | 28.2 | 0.2% |
| Large Utility | 35.3 | 35.4 | 35.4 | 35.5 | 35.5 | 35.6 | 35.6 | 35.7 | 35.7 | 35.7 | 35.8 | 35.8 | 35.8 | 0.2% |
| Turbo Direct Injection Diesel | | | | | | | | | | | | | | |
| Mini-compact Cars | 55.7 | 55.7 | 55.8 | 55.8 | 55.8 | 55.8 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 55.9 | 56.0 | 0.1% |
| Subcompact Cars | 20.8 | 20.8 | 20.8 | 20.9 | 20.9 | 20.9 | 20.9 | 21.0 | 21.0 | 21.0 | 21.0 | 20.9 | 20.9 | 0.2% |
| Compact Cars | 21.0 | 21.0 | 21.1 | 21.1 | 21.1 | 21.2 | 21.2 | 21.2 | 21.2 | 21.3 | 21.3 | 21.3 | 21.3 | 0.2% |
| Midsize Cars | 28.1 | 28.1 | 28.2 | 28.2 | 28.2 | 28.3 | 28.3 | 28.3 | 28.3 | 28.4 | 28.4 | 28.4 | 28.4 | 0.2% |
| Large Cars | 32.6 | 32.6 | 32.6 | 32.7 | 32.7 | 32.7 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.9 | 32.9 | 0.1% |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Pickup | 21.0 | 21.0 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.2 | 21.2 | 21.2 | 21.2 | 21.1 | 0.2% |
| Large Pickup | 26.9 | 27.0 | 27.0 | 27.0 | 27.0 | 27.1 | 27.1 | 27.1 | 27.1 | 27.2 | 27.2 | 27.2 | 27.2 | 0.2% |
| Small Van | 28.9 | 28.9 | 28.9 | 29.0 | 29.0 | 29.0 | 29.0 | 29.0 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 0.2% |
| Large Van | 25.0 | 25.1 | 25.1 | 25.1 | 25.2 | 25.2 | 25.2 | 25.2 | 25.3 | 25.3 | 25.3 | 25.3 | 25.4 | 0.2% |
| Small Utility | 29.7 | 29.8 | 29.8 | 29.8 | 29.9 | 29.9 | 29.9 | 29.9 | 30.0 | 30.0 | 30.0 | 30.0 | 30.1 | 0.2% |
| Large Utility | 36.7 | 36.8 | 36.8 | 36.8 | 36.9 | 36.9 | 36.9 | 37.0 | 37.0 | 37.0 | 37.1 | 37.1 | 37.1 | 0.2% |
| Methanol | | | | | | | | | | | | | | |
| Mini-compact Cars | 56.3 | 56.3 | 56.4 | 56.4 | 56.4 | 56.4 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 0.1% |
| Subcompact Cars | 21.3 | 21.3 | 21.3 | 21.4 | 21.4 | 21.4 | 21.4 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 0.2% |
| Compact Cars | 21.6 | 21.7 | 21.7 | 21.7 | 21.8 | 21.8 | 21.8 | 21.8 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 0.3% |
| Midsize Cars | 28.2 | 28.2 | 28.3 | 28.3 | 28.3 | 28.4 | 28.4 | 28.4 | 28.4 | 28.5 | 28.5 | 28.5 | 28.5 | 0.2% |
| Large Cars | 32.5 | 32.6 | 32.6 | 32.6 | 32.7 | 32.7 | 32.7 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 0.1% |
| Two Seater Cars | 45.3 | 45.3 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4 | 45.5 | 45.5 | 45.5 | 45.5 | 0.1% |
| Small Pickup | 20.9 | 20.9 | 20.9 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 0.3% |
| Large Pickup | 27.5 | 27.5 | 27.6 | 27.6 | 27.6 | 27.7 | 27.7 | 27.7 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 0.2% |
| Small Van | 29.1 | 29.1 | 29.1 | 29.2 | 29.2 | 29.2 | 29.3 | 29.3 | 29.3 | 29.3 | 29.4 | 29.4 | 29.4 | 0.2% |
| Large Van | 25.2 | 25.3 | 25.3 | 25.3 | 25.4 | 25.4 | 25.4 | 25.5 | 25.5 | 25.5 | 25.6 | 25.6 | 25.6 | 0.2% |
| Small Utility | 30.0 | 30.0 | 30.0 | 30.1 | 30.1 | 30.1 | 30.2 | 30.2 | 30.2 | 30.3 | 30.3 | 30.3 | 30.3 | 0.2% |
| Large Utility | 37.4 | 37.4 | 37.4 | 37.5 | 37.5 | 37.6 | 37.6 | 37.6 | 37.6 | 37.7 | 37.7 | 37.7 | 37.7 | 0.2% |
| Methanol Flex | | | | | | | | | | | | | | |
| Mini-compact Cars | 56.5 | 56.5 | 56.6 | 56.6 | 56.6 | 56.7 | 56.7 | 56.7 | 56.7 | 56.7 | 56.7 | 56.7 | 56.7 | 0.1% |
| Subcompact Cars | 21.4 | 21.5 | 21.5 | 21.5 | 21.6 | 21.6 | 21.6 | 21.6 | 21.7 | 21.7 | 21.7 | 21.7 | 21.7 | 0.2% |
| Compact Cars | 21.8 | 21.8 | 21.8 | 21.9 | 21.9 | 21.9 | 22.0 | 22.0 | 22.0 | 22.0 | 22.1 | 22.1 | 22.1 | 0.3% |
| Midsize Cars | 28.4 | 28.4 | 28.5 | 28.5 | 28.6 | 28.6 | 28.6 | 28.6 | 28.7 | 28.7 | 28.7 | 28.7 | 28.7 | 0.2% |
| Large Cars | 32.7 | 32.8 | 32.8 | 32.8 | 32.9 | 32.9 | 32.9 | 33.0 | 33.0 | 33.0 | 33.0 | 33.1 | 33.1 | 0.2% |
| Two Seater Cars | 45.5 | 45.5 | 45.5 | 45.5 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.7 | 45.7 | 0.1% |

**Table 58. New Light-Duty Vehicle Prices**
**(Thousand 2001 Dollars)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Small Pickup | 21.2 | 21.2 | 21.2 | 21.3 | 21.3 | 21.3 | 21.3 | 21.4 | 21.4 | 21.4 | 21.4 | 21.4 | 21.4 | 0.3% |
| Large Pickup | 27.8 | 27.8 | 27.8 | 27.9 | 27.9 | 27.9 | 28.0 | 28.0 | 28.0 | 28.0 | 28.1 | 28.1 | 28.1 | 0.2% |
| Small Van | 29.3 | 29.4 | 29.4 | 29.4 | 29.5 | 29.5 | 29.6 | 29.6 | 29.6 | 29.7 | 29.7 | 29.7 | 29.7 | 0.2% |
| Large Van | 25.5 | 25.5 | 25.6 | 25.6 | 25.7 | 25.7 | 25.7 | 25.8 | 25.8 | 25.8 | 25.8 | 25.9 | 25.9 | 0.3% |
| Small Utility | 30.3 | 30.3 | 30.4 | 30.4 | 30.4 | 30.5 | 30.5 | 30.5 | 30.6 | 30.6 | 30.6 | 30.7 | 30.7 | 0.2% |
| Large Utility | 37.6 | 37.7 | 37.7 | 37.7 | 37.8 | 37.8 | 37.9 | 37.9 | 37.9 | 37.9 | 38.0 | 38.0 | 38.0 | 0.2% |
| Ethanol | | | | | | | | | | | | | | |
| Mini-compact Cars | 56.4 | 56.4 | 56.4 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.5 | 56.6 | 56.6 | 56.6 | 56.6 | 0.1% |
| Subcompact Cars | 21.3 | 21.3 | 21.4 | 21.4 | 21.4 | 21.4 | 21.5 | 21.5 | 21.5 | 21.5 | 21.5 | 21.6 | 21.6 | 0.2% |
| Compact Cars | 21.6 | 21.7 | 21.7 | 21.7 | 21.8 | 21.8 | 21.8 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 0.3% |
| Midsize Cars | 28.2 | 28.2 | 28.3 | 28.3 | 28.4 | 28.4 | 28.4 | 28.4 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 0.2% |
| Large Cars | 32.5 | 32.6 | 32.6 | 32.7 | 32.7 | 32.7 | 32.8 | 32.8 | 32.8 | 32.8 | 32.8 | 32.9 | 32.9 | 0.2% |
| Two Seater Cars | 45.3 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4 | 45.4 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 45.5 | 0.1% |
| Small Pickup | 20.9 | 20.9 | 21.0 | 21.0 | 21.0 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.2 | 0.3% |
| Large Pickup | 27.6 | 27.6 | 27.6 | 27.7 | 27.7 | 27.7 | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 | 27.9 | 27.9 | 0.2% |
| Small Van | 29.1 | 29.1 | 29.2 | 29.2 | 29.2 | 29.3 | 29.3 | 29.3 | 29.4 | 29.4 | 29.4 | 29.4 | 29.5 | 0.2% |
| Large Van | 25.3 | 25.3 | 25.4 | 25.4 | 25.4 | 25.5 | 25.5 | 25.5 | 25.6 | 25.6 | 25.6 | 25.6 | 25.7 | 0.2% |
| Small Utility | 30.0 | 30.0 | 30.1 | 30.1 | 30.2 | 30.2 | 30.2 | 30.3 | 30.3 | 30.3 | 30.4 | 30.4 | 30.4 | 0.2% |
| Large Utility | 37.4 | 37.4 | 37.5 | 37.5 | 37.6 | 37.6 | 37.6 | 37.7 | 37.7 | 37.7 | 37.8 | 37.8 | 37.8 | 0.2% |
| Ethanol Flex | | | | | | | | | | | | | | |
| Mini-compact Cars | 56.5 | 56.5 | 56.6 | 56.6 | 56.6 | 56.7 | 56.7 | 56.7 | 56.7 | 56.7 | 56.8 | 56.8 | 56.8 | 0.1% |
| Subcompact Cars | 20.7 | 20.7 | 20.7 | 20.7 | 20.8 | 20.8 | 20.8 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 20.9 | 0.2% |
| Compact Cars | 20.4 | 20.4 | 20.4 | 20.4 | 20.5 | 20.5 | 20.5 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.7 | 0.3% |
| Midsize Cars | 26.4 | 26.5 | 26.5 | 26.6 | 26.6 | 26.6 | 26.7 | 26.7 | 26.7 | 26.7 | 26.8 | 26.8 | 26.8 | 0.2% |
| Large Cars | 31.3 | 31.3 | 31.4 | 31.4 | 31.4 | 31.5 | 31.5 | 31.5 | 31.6 | 31.6 | 31.6 | 31.6 | 31.7 | 0.2% |
| Two Seater Cars | 45.5 | 45.5 | 45.5 | 45.5 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.6 | 45.7 | 45.7 | 45.7 | 0.1% |
| Small Pickup | 20.4 | 20.4 | 20.4 | 20.5 | 20.5 | 20.5 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.6 | 20.7 | 0.3% |
| Large Pickup | 26.5 | 26.5 | 26.5 | 26.5 | 26.6 | 26.6 | 26.6 | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 | 26.8 | 0.2% |
| Small Van | 27.8 | 27.8 | 27.8 | 27.9 | 27.9 | 27.9 | 28.0 | 28.0 | 28.1 | 28.1 | 28.1 | 28.1 | 28.1 | 0.2% |
| Large Van | 25.5 | 25.5 | 25.6 | 25.6 | 25.7 | 25.7 | 25.7 | 25.8 | 25.8 | 25.8 | 25.9 | 25.9 | 25.9 | 0.3% |
| Small Utility | 28.1 | 28.2 | 28.2 | 28.3 | 28.3 | 28.3 | 28.4 | 28.4 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 0.2% |
| Large Utility | 35.9 | 35.9 | 35.9 | 36.0 | 36.0 | 36.1 | 36.1 | 36.1 | 36.2 | 36.2 | 36.2 | 36.2 | 36.3 | 0.2% |
| Compressed Natural Gas (CNG) | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Compact Cars | 25.9 | 25.9 | 26.0 | 26.0 | 26.0 | 26.1 | 26.1 | 26.1 | 26.2 | 26.2 | 26.2 | 26.2 | 26.3 | 0.2% |
| Midsize Cars | 32.6 | 32.6 | 32.7 | 32.7 | 32.8 | 32.8 | 32.8 | 32.9 | 32.9 | 32.9 | 33.0 | 33.0 | 33.0 | 0.2% |
| Large Cars | 36.9 | 36.9 | 37.0 | 37.0 | 37.0 | 37.1 | 37.1 | 37.2 | 37.2 | 37.2 | 37.2 | 37.3 | 37.3 | 0.1% |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Pickup | 25.5 | 25.5 | 25.6 | 25.6 | 25.6 | 25.7 | 25.7 | 25.7 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 0.3% |
| Large Pickup | 32.0 | 32.0 | 32.1 | 32.1 | 32.2 | 32.2 | 32.3 | 32.3 | 32.4 | 32.4 | 32.4 | 32.4 | 32.5 | 0.2% |
| Small Van | 33.6 | 33.7 | 33.7 | 33.8 | 33.8 | 33.9 | 33.9 | 33.9 | 34.0 | 34.0 | 34.1 | 34.1 | 34.1 | 0.2% |
| Large Van | 29.7 | 29.7 | 29.8 | 29.8 | 29.9 | 29.9 | 30.0 | 30.0 | 30.1 | 30.1 | 30.2 | 30.2 | 30.2 | 0.2% |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| CNG Bi-Fuel | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Compact Cars | 24.8 | 24.8 | 24.9 | 24.9 | 25.0 | 25.0 | 25.1 | 25.1 | 25.1 | 25.1 | 25.2 | 25.2 | 25.2 | 0.3% |

**Table 58. New Light-Duty Vehicle Prices**
**(Thousand 2001 Dollars)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Midsize Cars | 31.7 | 31.7 | 31.8 | 31.8 | 31.9 | 31.9 | 32.0 | 32.0 | 32.0 | 32.1 | 32.1 | 32.1 | 32.1 | 0.2% |
| Large Cars | 36.0 | 36.0 | 36.0 | 36.1 | 36.1 | 36.2 | 36.2 | 36.2 | 36.3 | 36.3 | 36.3 | 36.4 | 36.4 | 0.2% |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Pickup | 24.8 | 24.8 | 24.9 | 24.9 | 24.9 | 25.0 | 25.0 | 25.1 | 25.1 | 25.1 | 25.2 | 25.2 | 25.2 | 0.3% |
| Large Pickup | 31.1 | 31.2 | 31.2 | 31.3 | 31.3 | 31.4 | 31.4 | 31.5 | 31.5 | 31.6 | 31.6 | 31.6 | 31.6 | 0.2% |
| Small Van | 32.9 | 33.0 | 33.0 | 33.1 | 33.1 | 33.2 | 33.2 | 33.3 | 33.3 | 33.4 | 33.4 | 33.4 | 33.5 | 0.2% |
| Large Van | 28.8 | 28.8 | 28.9 | 29.0 | 29.0 | 29.1 | 29.1 | 29.2 | 29.2 | 29.3 | 29.3 | 29.4 | 29.4 | 0.3% |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Liquefied Petroleum Gas (LPG) | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Subcompact Cars | 24.0 | 24.0 | 24.1 | 24.1 | 24.1 | 24.2 | 24.2 | 24.2 | 24.2 | 24.3 | 24.3 | 24.3 | 24.3 | 0.2% |
| Compact Cars | 24.3 | 24.4 | 24.4 | 24.4 | 24.5 | 24.5 | 24.5 | 24.6 | 24.6 | 24.6 | 24.6 | 24.6 | 24.7 | 0.2% |
| Midsize Cars | 31.8 | 31.9 | 31.9 | 32.0 | 32.0 | 32.0 | 32.1 | 32.1 | 32.1 | 32.2 | 32.2 | 32.2 | 32.2 | 0.2% |
| Large Cars | 36.2 | 36.2 | 36.3 | 36.3 | 36.3 | 36.4 | 36.4 | 36.4 | 36.5 | 36.5 | 36.5 | 36.5 | 36.5 | 0.1% |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Pickup | 25.5 | 25.6 | 25.6 | 25.7 | 25.7 | 25.7 | 25.7 | 25.7 | 25.8 | 25.8 | 25.8 | 25.8 | 25.8 | 0.2% |
| Large Pickup | 31.2 | 31.3 | 31.3 | 31.4 | 31.4 | 31.5 | 31.5 | 31.5 | 31.5 | 31.6 | 31.6 | 31.6 | 31.6 | 0.2% |
| Small Van | 33.7 | 33.7 | 33.8 | 33.8 | 33.8 | 33.9 | 33.9 | 34.0 | 34.0 | 34.0 | 34.1 | 34.1 | 34.1 | 0.2% |
| Large Van | 29.0 | 29.0 | 29.1 | 29.1 | 29.2 | 29.2 | 29.2 | 29.3 | 29.3 | 29.3 | 29.4 | 29.4 | 29.4 | 0.2% |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Large Utility | 41.1 | 41.1 | 41.2 | 41.2 | 41.3 | 41.3 | 41.3 | 41.4 | 41.4 | 41.5 | 41.5 | 41.5 | 41.5 | 0.2% |
| LPG Bi-Fuel | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Compact Cars | 24.2 | 24.3 | 24.3 | 24.4 | 24.4 | 24.4 | 24.5 | 24.5 | 24.5 | 24.5 | 24.6 | 24.6 | 24.6 | 0.3% |
| Midsize Cars | 30.8 | 30.9 | 30.9 | 31.0 | 31.0 | 31.0 | 31.1 | 31.1 | 31.1 | 31.2 | 31.2 | 31.2 | 31.2 | 0.2% |
| Large Cars | 35.1 | 35.2 | 35.2 | 35.3 | 35.3 | 35.4 | 35.4 | 35.4 | 35.5 | 35.5 | 35.5 | 35.5 | 35.5 | 0.2% |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Pickup | 23.6 | 23.6 | 23.7 | 23.7 | 23.8 | 23.8 | 23.8 | 23.8 | 23.9 | 23.9 | 23.9 | 23.9 | 24.0 | 0.3% |
| Large Pickup | 30.2 | 30.3 | 30.4 | 30.4 | 30.5 | 30.5 | 30.5 | 30.6 | 30.6 | 30.6 | 30.7 | 30.7 | 30.7 | 0.2% |
| Small Van | 31.7 | 31.8 | 31.8 | 31.9 | 31.9 | 32.0 | 32.0 | 32.1 | 32.1 | 32.1 | 32.2 | 32.2 | 32.2 | 0.2% |
| Large Van | 27.9 | 28.0 | 28.1 | 28.1 | 28.2 | 28.2 | 28.3 | 28.3 | 28.3 | 28.4 | 28.4 | 28.5 | 28.5 | 0.3% |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Large Utility | 40.1 | 40.1 | 40.2 | 40.2 | 40.3 | 40.3 | 40.4 | 40.4 | 40.5 | 40.5 | 40.5 | 40.6 | 40.6 | 0.2% |
| Electric | | | | | | | | | | | | | | |
| Mini-compact Cars | 77.6 | 77.3 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | 77.0 | -0.1% |
| Subcompact Cars | 40.6 | 40.3 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | 40.1 | -0.1% |
| Compact Cars | 41.0 | 40.7 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | 40.5 | -0.1% |
| Midsize Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Large Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Two Seater Cars | 62.8 | 60.8 | 59.9 | 60.0 | 58.2 | 58.3 | 58.8 | 57.6 | 57.8 | 58.3 | 58.5 | 58.9 | 59.3 | -0.5% |
| Small Pickup | 42.3 | 42.0 | 41.6 | 41.6 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | 41.7 | -0.1% |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Van | 49.7 | 48.9 | 49.3 | 50.6 | 50.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | 51.1 | -0.1% |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Diesel-Electric Hybrid | | | | | | | | | | | | | | |

**Table 58. New Light-Duty Vehicle Prices**
**(Thousand 2001 Dollars)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mini-compact Cars | 60.4 | 60.4 | 60.3 | 60.3 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.4 | 60.5 | 60.5 | 60.5 | -0.2% |
| Subcompact Cars | 24.6 | 24.4 | 24.4 | 24.4 | 24.3 | 24.3 | 24.3 | 24.2 | 24.2 | 24.3 | 24.3 | 24.2 | 24.2 | -0.5% |
| Compact Cars | 23.8 | 23.6 | 23.5 | 23.5 | 23.4 | 23.4 | 23.4 | 23.3 | 23.4 | 23.4 | 23.4 | 23.4 | 23.3 | -0.7% |
| Midsize Cars | 29.3 | 29.1 | 29.1 | 29.1 | 29.0 | 29.0 | 29.0 | 28.8 | 28.9 | 28.9 | 28.9 | 28.9 | 28.9 | -0.8% |
| Large Cars | 35.6 | 35.4 | 35.4 | 35.4 | 35.2 | 35.2 | 35.2 | 35.1 | 35.2 | 35.2 | 35.2 | 35.2 | 35.2 | -0.6% |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Van | 33.2 | 32.9 | 32.8 | 32.8 | 32.6 | 32.6 | 32.6 | 32.5 | 32.6 | 32.6 | 32.6 | 32.5 | 32.5 | -0.6% |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Utility | 32.7 | 32.4 | 32.3 | 32.4 | 32.2 | 32.2 | 32.1 | 32.0 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | -0.8% |
| Large Utility | 42.6 | 42.4 | 42.3 | 42.3 | 42.1 | 42.1 | 42.1 | 42.0 | 42.1 | 42.1 | 42.1 | 42.1 | 42.1 | -0.5% |
| | | | | | | | | | | | | | | |
| Gasoline-Electric Hybrid | | | | | | | | | | | | | | |
| Mini-compact Cars | 59.3 | 59.3 | 59.2 | 59.3 | 59.3 | 59.3 | 59.3 | 59.3 | 59.4 | 59.4 | 59.4 | 59.4 | 59.4 | -0.1% |
| Subcompact Cars | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.0 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | 21.1 | -0.8% |
| Compact Cars | 21.3 | 21.3 | 21.3 | 21.3 | 21.3 | 21.4 | 21.4 | 21.4 | 21.4 | 21.4 | 21.5 | 21.5 | 21.5 | -0.6% |
| Midsize Cars | 28.0 | 28.0 | 27.9 | 28.0 | 28.0 | 28.0 | 28.0 | 28.1 | 28.1 | 28.1 | 28.1 | 28.1 | 28.1 | -0.4% |
| Large Cars | 32.7 | 32.6 | 32.6 | 32.6 | 32.6 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 32.7 | 32.8 | 32.8 | -0.6% |
| Two Seater Cars | 47.5 | 47.4 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | 47.2 | 47.3 | 47.3 | 47.3 | 47.3 | 47.3 | -0.2% |
| Small Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Van | 29.3 | 29.2 | 29.2 | 29.2 | 29.3 | 29.3 | 29.3 | 29.3 | 29.4 | 29.4 | 29.4 | 29.4 | 29.4 | -0.7% |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Utility | 30.1 | 30.1 | 30.0 | 30.0 | 30.1 | 30.1 | 30.1 | 30.1 | 30.1 | 30.2 | 30.2 | 30.2 | 30.2 | -0.6% |
| Large Utility | 38.5 | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 | 38.5 | 38.5 | 38.5 | 38.5 | 38.6 | 38.6 | 38.6 | -0.7% |
| | | | | | | | | | | | | | | |
| Fuel Cell Methanol | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Compact Cars | 62.7 | 60.8 | 59.1 | 57.4 | 55.8 | 54.2 | 52.8 | 51.4 | 50.0 | 48.8 | 47.5 | 46.4 | 45.2 | N/A |
| Midsize Cars | 75.9 | 73.7 | 71.7 | 69.7 | 67.8 | 66.0 | 64.4 | 62.8 | 61.2 | 59.7 | 58.1 | 56.9 | 55.5 | N/A |
| Large Cars | 85.9 | 83.4 | 81.2 | 79.0 | 76.9 | 74.9 | 73.0 | 71.3 | 69.5 | 67.8 | 66.1 | 64.7 | 63.1 | N/A |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Van | 87.9 | 85.2 | 82.7 | 80.3 | 78.0 | 75.8 | 73.8 | 71.9 | 69.8 | 68.0 | 66.1 | 64.5 | 62.7 | N/A |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Utility | 85.8 | 83.2 | 80.9 | 78.6 | 76.4 | 74.4 | 72.4 | 70.6 | 68.7 | 66.9 | 65.1 | 63.6 | 62.0 | N/A |
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| | | | | | | | | | | | | | | |
| Fuel Cell Hydrogen | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Compact Cars | 56.9 | 55.6 | 54.3 | 53.2 | 52.1 | 51.0 | 50.0 | 49.0 | 48.1 | 47.2 | 46.4 | 45.5 | 44.7 | N/A |
| Midsize Cars | 68.0 | 66.5 | 65.1 | 63.7 | 62.4 | 61.2 | 60.0 | 58.9 | 57.8 | 56.7 | 55.7 | 54.8 | 53.8 | N/A |
| Large Cars | 76.3 | 74.7 | 73.0 | 71.5 | 70.1 | 68.7 | 67.4 | 66.2 | 65.0 | 63.8 | 62.7 | 61.6 | 60.5 | N/A |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Van | 76.5 | 74.7 | 72.9 | 71.3 | 69.7 | 68.2 | 66.8 | 65.4 | 64.0 | 62.7 | 61.5 | 60.3 | 59.1 | N/A |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Utility | 75.4 | 73.7 | 71.9 | 70.4 | 68.9 | 67.5 | 66.1 | 64.8 | 63.5 | 62.3 | 61.1 | 60.0 | 58.8 | N/A |

**Table 58. New Light-Duty Vehicle Prices**
**(Thousand 2001 Dollars)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | | | | | | | | | | | | | | |
| Mini-compact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Subcompact Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Compact Cars | 69.0 | 66.8 | 64.7 | 62.8 | 61.0 | 59.2 | 57.5 | 55.9 | 54.3 | 52.9 | 51.4 | 50.1 | 48.7 | N/A |
| Midsize Cars | 83.2 | 80.7 | 78.3 | 76.1 | 73.9 | 71.9 | 69.9 | 68.0 | 66.2 | 64.5 | 62.7 | 61.2 | 59.6 | N/A |
| Large Cars | 94.0 | 91.2 | 88.5 | 86.1 | 83.6 | 81.4 | 79.2 | 77.1 | 75.0 | 73.1 | 71.2 | 69.5 | 67.7 | N/A |
| Two Seater Cars | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Large Pickup | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Van | 96.9 | 93.8 | 90.9 | 88.2 | 85.5 | 83.1 | 80.7 | 78.4 | 76.1 | 73.9 | 71.8 | 69.9 | 67.9 | N/A |
| Large Van | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Small Utility | 94.4 | 91.4 | 88.6 | 86.1 | 83.6 | 81.3 | 79.0 | 76.8 | 74.6 | 72.6 | 70.5 | 68.8 | 66.9 | N/A |
| Large Utility | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |

**Table 58. New Light-Duty Vehicle Prices**
**(Thousand 2001 Dollars)**

Sources: 2001 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 59. New Light-Duty Vehicle Range (Miles)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline | | | | | | | | | | | | | |
| Mini-compact Cars | 404 | 403 | 407 | 409 | 411 | 409 | 413 | 413 | 410 | 414 | 419 | 421 | 424 |
| Subcompact Cars | 432 | 431 | 430 | 430 | 431 | 428 | 426 | 424 | 420 | 421 | 423 | 424 | 427 |
| Compact Cars | 435 | 434 | 433 | 434 | 435 | 434 | 433 | 431 | 427 | 429 | 431 | 432 | 435 |
| Midsize Cars | 454 | 453 | 452 | 453 | 454 | 453 | 452 | 449 | 446 | 448 | 451 | 452 | 454 |
| Large Cars | 458 | 457 | 456 | 456 | 456 | 452 | 449 | 446 | 442 | 443 | 446 | 448 | 450 |
| Two Seater Cars | 398 | 399 | 400 | 400 | 400 | 398 | 396 | 394 | 391 | 393 | 397 | 398 | 401 |
| Small Pickup | 409 | 408 | 408 | 409 | 409 | 411 | 410 | 410 | 407 | 410 | 413 | 416 | 419 |
| Large Pickup | 483 | 482 | 481 | 482 | 482 | 482 | 481 | 480 | 476 | 479 | 484 | 487 | 491 |
| Small Van | 521 | 519 | 517 | 518 | 518 | 518 | 513 | 510 | 506 | 508 | 512 | 514 | 517 |
| Large Van | 588 | 587 | 586 | 586 | 586 | 588 | 587 | 586 | 582 | 587 | 593 | 598 | 605 |
| Small Utility | 403 | 402 | 401 | 402 | 403 | 404 | 404 | 403 | 400 | 404 | 408 | 411 | 414 |
| Large Utility | 476 | 476 | 475 | 475 | 475 | 477 | 474 | 474 | 470 | 474 | 480 | 484 | 489 |
| Turbo Direct Injection Diesel | | | | | | | | | | | | | |
| Mini-compact Cars | 546 | 545 | 550 | 552 | 555 | 553 | 558 | 558 | 554 | 558 | 566 | 569 | 573 |
| Subcompact Cars | 583 | 582 | 580 | 581 | 582 | 578 | 575 | 572 | 567 | 569 | 572 | 573 | 576 |
| Compact Cars | 588 | 586 | 585 | 586 | 588 | 586 | 584 | 582 | 577 | 579 | 582 | 584 | 587 |
| Midsize Cars | 613 | 611 | 610 | 612 | 613 | 611 | 610 | 607 | 602 | 604 | 608 | 610 | 613 |
| Large Cars | 619 | 617 | 615 | 615 | 615 | 611 | 607 | 602 | 597 | 599 | 602 | 604 | 608 |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Pickup | 553 | 551 | 551 | 552 | 553 | 555 | 554 | 553 | 549 | 553 | 558 | 561 | 566 |
| Large Pickup | 652 | 651 | 650 | 650 | 650 | 651 | 649 | 648 | 643 | 647 | 653 | 657 | 664 |
| Small Van | 704 | 701 | 698 | 699 | 699 | 699 | 693 | 689 | 683 | 686 | 691 | 693 | 698 |
| Large Van | 794 | 793 | 791 | 791 | 791 | 794 | 792 | 792 | 786 | 792 | 801 | 808 | 817 |
| Small Utility | 544 | 542 | 542 | 543 | 544 | 546 | 545 | 545 | 541 | 545 | 551 | 554 | 560 |
| Large Utility | 643 | 642 | 641 | 642 | 642 | 643 | 640 | 639 | 635 | 639 | 648 | 653 | 661 |
| Methanol | | | | | | | | | | | | | |
| Mini-compact Cars | 255 | 254 | 257 | 258 | 259 | 258 | 260 | 260 | 258 | 261 | 264 | 266 | 267 |
| Subcompact Cars | 272 | 272 | 271 | 271 | 271 | 270 | 268 | 267 | 264 | 265 | 267 | 267 | 269 |
| Compact Cars | 274 | 274 | 273 | 273 | 274 | 273 | 273 | 271 | 269 | 270 | 272 | 272 | 274 |
| Midsize Cars | 286 | 285 | 285 | 285 | 286 | 285 | 284 | 283 | 281 | 282 | 284 | 285 | 286 |
| Large Cars | 289 | 288 | 287 | 287 | 287 | 285 | 283 | 281 | 278 | 279 | 281 | 282 | 284 |
| Two Seater Cars | 251 | 251 | 252 | 252 | 252 | 251 | 250 | 249 | 246 | 248 | 250 | 251 | 253 |
| Small Pickup | 258 | 257 | 257 | 257 | 258 | 259 | 258 | 258 | 256 | 258 | 260 | 262 | 264 |
| Large Pickup | 304 | 304 | 303 | 303 | 303 | 304 | 303 | 302 | 300 | 302 | 305 | 307 | 310 |
| Small Van | 328 | 327 | 326 | 326 | 326 | 326 | 323 | 322 | 319 | 320 | 322 | 324 | 326 |
| Large Van | 371 | 370 | 369 | 369 | 369 | 370 | 370 | 369 | 367 | 370 | 374 | 377 | 381 |
| Small Utility | 254 | 253 | 253 | 253 | 254 | 255 | 254 | 254 | 252 | 254 | 257 | 259 | 261 |
| Large Utility | 300 | 300 | 299 | 299 | 300 | 300 | 299 | 298 | 296 | 298 | 302 | 305 | 308 |
| Methanol Flex | | | | | | | | | | | | | |
| Mini-compact Cars | 230 | 230 | 232 | 233 | 234 | 233 | 236 | 236 | 234 | 236 | 239 | 240 | 242 |
| Subcompact Cars | 246 | 246 | 245 | 245 | 246 | 244 | 243 | 241 | 239 | 240 | 241 | 242 | 243 |
| Compact Cars | 248 | 247 | 247 | 247 | 248 | 247 | 247 | 246 | 243 | 244 | 246 | 246 | 248 |
| Midsize Cars | 259 | 258 | 258 | 258 | 259 | 258 | 257 | 256 | 254 | 255 | 257 | 258 | 259 |
| Large Cars | 261 | 261 | 260 | 260 | 260 | 258 | 256 | 254 | 252 | 253 | 254 | 255 | 257 |
| Two Seater Cars | 227 | 227 | 228 | 228 | 228 | 227 | 226 | 225 | 223 | 224 | 226 | 227 | 229 |

**Table 59. New Light-Duty Vehicle Range (Miles)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Small Pickup | 233 | 233 | 232 | 233 | 233 | 234 | 234 | 234 | 232 | 233 | 236 | 237 | 239 |
| Large Pickup | 275 | 275 | 274 | 274 | 275 | 275 | 274 | 273 | 271 | 273 | 276 | 278 | 280 |
| Small Van | 297 | 296 | 295 | 295 | 295 | 295 | 292 | 291 | 288 | 289 | 292 | 293 | 295 |
| Large Van | 335 | 335 | 334 | 334 | 334 | 335 | 334 | 334 | 332 | 334 | 338 | 341 | 345 |
| Small Utility | 230 | 229 | 229 | 229 | 230 | 230 | 230 | 230 | 228 | 230 | 233 | 234 | 236 |
| Large Utility | 271 | 271 | 271 | 271 | 271 | 272 | 270 | 270 | 268 | 270 | 274 | 276 | 279 |
| Ethanol | | | | | | | | | | | | | |
| Mini-compact Cars | 307 | 307 | 310 | 311 | 312 | 311 | 314 | 314 | 312 | 314 | 318 | 320 | 322 |
| Subcompact Cars | 328 | 328 | 327 | 327 | 327 | 326 | 324 | 322 | 319 | 320 | 322 | 323 | 324 |
| Compact Cars | 331 | 330 | 329 | 330 | 331 | 330 | 329 | 327 | 325 | 326 | 328 | 329 | 330 |
| Midsize Cars | 345 | 344 | 343 | 344 | 345 | 344 | 343 | 342 | 339 | 340 | 342 | 344 | 345 |
| Large Cars | 348 | 348 | 346 | 346 | 346 | 344 | 342 | 339 | 336 | 337 | 339 | | 342 |
| Two Seater Cars | 303 | 303 | 304 | 304 | 304 | 303 | 301 | 300 | 297 | 299 | 301 | 340 | 305 |
| Small Pickup | 311 | 310 | 310 | 310 | 311 | 312 | 312 | 311 | 309 | 311 | 314 | 303 | 318 |
| Large Pickup | 367 | 367 | 366 | 366 | 366 | 367 | 366 | 365 | 362 | 364 | 368 | 370 | 374 |
| Small Van | 396 | 395 | 393 | 393 | 394 | 394 | 390 | 388 | 384 | 386 | 389 | 390 | 393 |
| Large Van | 447 | 446 | 445 | 445 | 446 | 447 | 446 | 446 | 442 | 446 | 451 | 455 | 460 |
| Small Utility | 306 | 305 | 305 | 306 | 306 | 307 | 307 | 307 | 304 | 307 | 310 | 312 | 315 |
| Large Utility | 362 | 362 | 361 | 361 | 361 | 362 | 361 | 360 | 358 | 360 | 365 | 368 | 372 |
| Ethanol Flex | | | | | | | | | | | | | |
| Mini-compact Cars | 295 | 294 | 297 | 299 | 300 | 299 | 302 | 302 | 299 | 302 | 306 | 308 | 310 |
| Subcompact Cars | 315 | 315 | 314 | 314 | 315 | 313 | 311 | 309 | 306 | 307 | 309 | 310 | 311 |
| Compact Cars | 318 | 317 | 316 | 317 | 318 | 317 | 316 | 314 | 312 | 313 | 315 | 316 | 317 |
| Midsize Cars | 331 | 331 | 330 | 331 | 332 | 330 | 330 | 328 | 325 | 327 | 329 | 330 | 332 |
| Large Cars | 335 | 334 | 333 | 333 | 333 | 330 | 328 | 326 | 323 | 324 | 326 | 327 | 329 |
| Two Seater Cars | 291 | 291 | 292 | 292 | 292 | 291 | 289 | 288 | 286 | 287 | 289 | 291 | 293 |
| Small Pickup | 299 | 298 | 298 | 298 | 299 | 300 | 300 | 299 | 297 | 299 | 302 | 303 | 306 |
| Large Pickup | 353 | 352 | 351 | 352 | 352 | 352 | 351 | 350 | 348 | 350 | 353 | 355 | 359 |
| Small Van | 381 | 379 | 378 | 378 | 378 | 378 | 375 | 373 | 369 | 371 | 374 | 375 | 377 |
| Large Van | 429 | 429 | 428 | 428 | 428 | 429 | 428 | 428 | 425 | 428 | 433 | 437 | 442 |
| Small Utility | 294 | 293 | 293 | 294 | 294 | 295 | 295 | 294 | 292 | 295 | 298 | 300 | 303 |
| Large Utility | 348 | 347 | 347 | 347 | 347 | 348 | 346 | 346 | 343 | 346 | 350 | 353 | 357 |
| Compressed Natural Gas (CNG) | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Compact Cars | 261 | 261 | 260 | 260 | 261 | 260 | 260 | 258 | 256 | 257 | 259 | 259 | 261 |
| Midsize Cars | 272 | 272 | 271 | 272 | 273 | 272 | 271 | 270 | 267 | 269 | 270 | 271 | 272 |
| Large Cars | 275 | 274 | 273 | 273 | 273 | 271 | 270 | 268 | 265 | 266 | 268 | 269 | 270 |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Pickup | 246 | 245 | 245 | 245 | 246 | 247 | 246 | 246 | 244 | 246 | 248 | 249 | 251 |
| Large Pickup | 290 | 289 | 289 | 289 | 289 | 289 | 289 | 288 | 286 | 287 | 290 | 292 | 295 |
| Small Van | 313 | 312 | 310 | 311 | 311 | 311 | 308 | 306 | 303 | 305 | 307 | 308 | 310 |
| Large Van | 353 | 352 | 352 | 352 | 352 | 353 | 352 | 352 | 349 | 352 | 356 | 359 | 363 |
| Small Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CNG Bi-Fuel | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Compact Cars | 218 | 217 | 217 | 217 | 218 | 217 | 216 | 215 | 214 | 214 | 215 | 216 | 217 |

**Table 59. New Light-Duty Vehicle Range (Miles)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Midsize Cars | 227 | 226 | 226 | 227 | 227 | 226 | 226 | 225 | 223 | 224 | 225 | 226 | 227 |
| Large Cars | 229 | 229 | 228 | 228 | 228 | 226 | 225 | 223 | 221 | 222 | 223 | 224 | 225 |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Pickup | 205 | 204 | 204 | 204 | 205 | 206 | 205 | 205 | 203 | 205 | 207 | 208 | 210 |
| Large Pickup | 242 | 241 | 241 | 241 | 241 | 241 | 241 | 240 | 238 | 240 | 242 | 243 | 246 |
| Small Van | 261 | 260 | 259 | 259 | 259 | 259 | 257 | 255 | 253 | 254 | 256 | 257 | 258 |
| Large Van | 294 | 294 | 293 | 293 | 293 | 294 | 293 | 293 | 291 | 293 | 297 | 299 | 303 |
| Small Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Liquefied Petroleum Gas (LPG) | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Subcompact Cars | 367 | 366 | 365 | 366 | 366 | 364 | 362 | 360 | 357 | 358 | 360 | 361 | 363 |
| Compact Cars | 370 | 369 | 368 | 369 | 370 | 369 | 368 | 366 | 363 | 364 | 366 | 368 | 370 |
| Midsize Cars | 386 | 385 | 384 | 385 | 386 | 385 | 384 | 382 | 379 | 380 | 383 | 384 | 386 |
| Large Cars | 390 | 389 | 387 | 387 | 387 | 384 | 382 | 379 | 376 | 377 | 379 | 381 | 383 |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Pickup | 348 | 347 | 347 | 347 | 348 | 349 | 349 | 348 | 346 | 348 | 351 | 353 | 356 |
| Large Pickup | 411 | 410 | 409 | 409 | 409 | 410 | 409 | 408 | 405 | 407 | 411 | 414 | 418 |
| Small Van | 443 | 441 | 440 | 440 | 440 | 440 | 436 | 434 | 430 | 432 | 435 | 437 | 439 |
| Large Van | 500 | 499 | 498 | 498 | 498 | 500 | 499 | 498 | 495 | 499 | 504 | 508 | 515 |
| Small Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Large Utility | 405 | 404 | 404 | 404 | 404 | 405 | 403 | 403 | 400 | 403 | 408 | 411 | 416 |
| LPG Bi-Fuel | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Compact Cars | 348 | 347 | 346 | 347 | 348 | 347 | 346 | 345 | 342 | 343 | 345 | 346 | 348 |
| Midsize Cars | 363 | 362 | 362 | 363 | 364 | 362 | 361 | 360 | 357 | 358 | 360 | 362 | 363 |
| Large Cars | 367 | 366 | 365 | 365 | 364 | 362 | 360 | 357 | 354 | 355 | 357 | 358 | 360 |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Pickup | 328 | 327 | 326 | 327 | 328 | 329 | 328 | 328 | 325 | 328 | 331 | 332 | 335 |
| Large Pickup | 386 | 386 | 385 | 385 | 385 | 386 | 385 | 384 | 381 | 383 | 387 | 390 | 393 |
| Small Van | 417 | 415 | 414 | 414 | 414 | 414 | 410 | 408 | 405 | 406 | 409 | 411 | 414 |
| Large Van | 471 | 470 | 469 | 469 | 469 | 470 | 469 | 469 | 466 | 469 | 475 | 479 | 484 |
| Small Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Large Utility | 381 | 381 | 380 | 380 | 380 | 381 | 380 | 379 | 376 | 379 | 384 | 387 | 392 |
| Electric | | | | | | | | | | | | | |
| Mini-compact Cars | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Subcompact Cars | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Compact Cars | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Midsize Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Large Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Two Seater Cars | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Small Pickup | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Van | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Diesel-Electric Hybrid | | | | | | | | | | | | | |

**Table 59. New Light-Duty Vehicle Range (Miles)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mini-compact Cars | 526 | 524 | 530 | 532 | 534 | 532 | 537 | 537 | 533 | 538 | 545 | 548 | 552 |
| Subcompact Cars | 561 | 560 | 559 | 559 | 560 | 557 | 554 | 551 | 546 | 548 | 550 | 552 | 555 |
| Compact Cars | 566 | 564 | 563 | 564 | 566 | 564 | 562 | 560 | 555 | 557 | 560 | 562 | 565 |
| Midsize Cars | 590 | 589 | 588 | 589 | 591 | 588 | 587 | 584 | 579 | 582 | 586 | 588 | 590 |
| Large Cars | 596 | 594 | 592 | 592 | 592 | 588 | 584 | 580 | 574 | 576 | 580 | 582 | 586 |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Van | 678 | 675 | 672 | 673 | 673 | 673 | 667 | 664 | 657 | 660 | 665 | 668 | 672 |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Utility | 524 | 522 | 522 | 523 | 524 | 525 | 525 | 524 | 521 | 525 | 531 | 534 | 539 |
| Large Utility | 619 | 618 | 618 | 618 | 618 | 620 | 617 | 616 | 612 | 616 | 624 | 629 | 636 |
| | | | | | | | | | | | | | |
| Gasoline-Electric Hybrid | | | | | | | | | | | | | |
| Mini-compact Cars | 505 | 504 | 509 | 512 | 513 | 512 | 517 | 517 | 513 | 517 | 524 | 527 | 530 |
| Subcompact Cars | 540 | 539 | 537 | 538 | 539 | 536 | 533 | 529 | 525 | 526 | 529 | 531 | 533 |
| Compact Cars | 544 | 543 | 541 | 543 | 544 | 542 | 541 | 538 | 534 | 536 | 539 | 541 | 543 |
| Midsize Cars | 567 | 566 | 565 | 566 | 568 | 566 | 564 | 562 | 557 | 559 | 563 | 565 | 568 |
| Large Cars | 573 | 572 | 570 | 570 | 569 | 565 | 562 | 558 | 552 | 554 | 557 | 560 | 563 |
| Two Seater Cars | 498 | 498 | 499 | 500 | 500 | 498 | 496 | 493 | 489 | 491 | 496 | 498 | 501 |
| Small Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Van | 652 | 649 | 646 | 647 | 647 | 647 | 641 | 638 | 632 | 635 | 640 | 642 | 646 |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Utility | 503 | 502 | 502 | 503 | 504 | 505 | 504 | 504 | 501 | 504 | 511 | 513 | 518 |
| Large Utility | 595 | 595 | 594 | 594 | 594 | 596 | 593 | 592 | 588 | 592 | 600 | 605 | 612 |
| | | | | | | | | | | | | | |
| Fuel Cell Methanol | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Compact Cars | 435 | 434 | 433 | 434 | 435 | 434 | 433 | 431 | 427 | 429 | 431 | 432 | 435 |
| Midsize Cars | 454 | 453 | 452 | 453 | 454 | 453 | 452 | 449 | 446 | 448 | 451 | 452 | 454 |
| Large Cars | 458 | 457 | 456 | 456 | 456 | 452 | 449 | 446 | 442 | 443 | 446 | 448 | 450 |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Van | 521 | 519 | 517 | 518 | 518 | 518 | 513 | 510 | 506 | 508 | 512 | 514 | 517 |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Utility | 403 | 402 | 401 | 402 | 403 | 404 | 404 | 403 | 400 | 404 | 408 | 411 | 414 |
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | |
| Fuel Cell Hydrogen | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Compact Cars | 435 | 434 | 433 | 434 | 435 | 434 | 433 | 431 | 427 | 429 | 431 | 432 | 435 |
| Midsize Cars | 454 | 453 | 452 | 453 | 454 | 453 | 452 | 449 | 446 | 448 | 451 | 452 | 454 |
| Large Cars | 458 | 457 | 456 | 456 | 456 | 452 | 449 | 446 | 442 | 443 | 446 | 448 | 450 |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Van | 521 | 519 | 517 | 518 | 518 | 518 | 513 | 510 | 506 | 508 | 512 | 514 | 517 |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Utility | 403 | 402 | 401 | 402 | 403 | 404 | 404 | 403 | 400 | 404 | 408 | 411 | 414 |

**Table 59. New Light-Duty Vehicle Range (Miles)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | |
| Fuel Cell Gasoline | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Compact Cars | 435 | 434 | 433 | 434 | 435 | 434 | 433 | 431 | 427 | 429 | 431 | 432 | 435 |
| Midsize Cars | 454 | 453 | 452 | 453 | 454 | 453 | 452 | 449 | 446 | 448 | 451 | 452 | 454 |
| Large Cars | 458 | 457 | 456 | 456 | 456 | 452 | 449 | 446 | 442 | 443 | 446 | 448 | 450 |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Van | 521 | 519 | 517 | 518 | 518 | 518 | 513 | 510 | 506 | 508 | 512 | 514 | 517 |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Small Utility | 403 | 402 | 401 | 402 | 403 | 404 | 404 | 403 | 400 | 404 | 408 | 411 | 414 |
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Table 59. New Light-Duty Vehicle Range (Miles)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline | | | | | | | | | | | | | | |
| Mini-compact Cars | 427 | 428 | 430 | 431 | 432 | 432 | 433 | 434 | 435 | 436 | 438 | 438 | 439 | 0.4% |
| Subcompact Cars | 429 | 431 | 433 | 434 | 435 | 436 | 437 | 438 | 440 | 441 | 442 | 443 | 444 | 0.1% |
| Compact Cars | 438 | 440 | 441 | 442 | 443 | 444 | 444 | 445 | 447 | 448 | 448 | 449 | 449 | 0.1% |
| Midsize Cars | 456 | 458 | 459 | 461 | 462 | 463 | 464 | 464 | 466 | 467 | 468 | 468 | 469 | 0.1% |
| Large Cars | 454 | 456 | 458 | 460 | 462 | 463 | 464 | 465 | 467 | 469 | 470 | 471 | 472 | 0.1% |
| Two Seater Cars | 404 | 406 | 408 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 418 | 419 | 419 | 0.2% |
| Small Pickup | 423 | 426 | 430 | 433 | 437 | 439 | 441 | 444 | 447 | 449 | 451 | 453 | 454 | 0.4% |
| Large Pickup | 497 | 500 | 504 | 507 | 510 | 513 | 515 | 518 | 521 | 524 | 526 | 528 | 530 | 0.4% |
| Small Van | 520 | 523 | 525 | 528 | 530 | 532 | 534 | 536 | 540 | 542 | 545 | 547 | 548 | 0.2% |
| Large Van | 614 | 619 | 623 | 628 | 633 | 636 | 639 | 643 | 648 | 651 | 655 | 658 | 661 | 0.5% |
| Small Utility | 419 | 422 | 424 | 427 | 430 | 433 | 435 | 437 | 440 | 442 | 445 | 446 | 448 | 0.5% |
| Large Utility | 495 | 498 | 502 | 505 | 509 | 511 | 513 | 516 | 520 | 522 | 525 | 527 | 529 | 0.4% |
| Turbo Direct Injection Diesel | | | | | | | | | | | | | | |
| Mini-compact Cars | 576 | 578 | 580 | 581 | 583 | 584 | 585 | 586 | 588 | 589 | 591 | 592 | 593 | 0.4% |
| Subcompact Cars | 579 | 582 | 584 | 586 | 588 | 589 | 590 | 592 | 594 | 596 | 597 | 598 | 599 | 0.1% |
| Compact Cars | 591 | 594 | 596 | 597 | 598 | 599 | 600 | 601 | 603 | 604 | 605 | 606 | 607 | 0.1% |
| Midsize Cars | 616 | 618 | 620 | 622 | 624 | 625 | 626 | 627 | 629 | 630 | 631 | 632 | 633 | 0.1% |
| Large Cars | 612 | 616 | 619 | 621 | 623 | 625 | 627 | 628 | 631 | 633 | 635 | 636 | 637 | 0.1% |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Pickup | 571 | 576 | 581 | 585 | 589 | 592 | 596 | 599 | 604 | 607 | 609 | 611 | 613 | 0.4% |
| Large Pickup | 670 | 675 | 680 | 685 | 689 | 693 | 696 | 699 | 704 | 708 | 710 | 713 | 715 | 0.4% |
| Small Van | 702 | 706 | 709 | 712 | 715 | 718 | 721 | 724 | 729 | 732 | 736 | 738 | 740 | 0.2% |
| Large Van | 829 | 836 | 842 | 848 | 854 | 859 | 863 | 868 | 875 | 879 | 884 | 889 | 893 | 0.5% |
| Small Utility | 565 | 570 | 573 | 577 | 581 | 584 | 587 | 590 | 594 | 597 | 600 | 603 | 605 | 0.5% |
| Large Utility | 668 | 673 | 677 | 682 | 687 | 690 | 693 | 697 | 702 | 705 | 709 | 711 | 714 | 0.4% |
| Methanol | | | | | | | | | | | | | | |
| Mini-compact Cars | 269 | 270 | 271 | 271 | 272 | 272 | 273 | 273 | 274 | 275 | 276 | 276 | 277 | 0.4% |
| Subcompact Cars | 270 | 272 | 273 | 273 | 274 | 275 | 275 | 276 | 277 | 278 | 279 | 279 | 279 | 0.1% |
| Compact Cars | 276 | 277 | 278 | 279 | 279 | 280 | 280 | 280 | 281 | 282 | 283 | 283 | 283 | 0.1% |
| Midsize Cars | 288 | 289 | 289 | 290 | 291 | 292 | 292 | 293 | 293 | 294 | 295 | 295 | 295 | 0.1% |
| Large Cars | 286 | 287 | 289 | 290 | 291 | 292 | 292 | 293 | 294 | 295 | 296 | 297 | 297 | 0.1% |
| Two Seater Cars | 255 | 256 | 257 | 258 | 259 | 260 | 260 | 261 | 262 | 262 | 263 | 264 | 264 | 0.2% |
| Small Pickup | 267 | 269 | 271 | 273 | 275 | 276 | 278 | 280 | 282 | 283 | 284 | 285 | 286 | 0.4% |
| Large Pickup | 313 | 315 | 317 | 320 | 322 | 323 | 325 | 326 | 329 | 330 | 332 | 333 | 334 | 0.4% |
| Small Van | 328 | 329 | 331 | 332 | 334 | 335 | 336 | 338 | 340 | 342 | 343 | 344 | 345 | 0.2% |
| Large Van | 387 | 390 | 393 | 396 | 398 | 401 | 403 | 405 | 408 | 410 | 413 | 415 | 417 | 0.5% |
| Small Utility | 264 | 266 | 267 | 269 | 271 | 273 | 274 | 275 | 277 | 279 | 280 | 281 | 282 | 0.5% |
| Large Utility | 312 | 314 | 316 | 318 | 320 | 322 | 323 | 325 | 328 | 329 | 331 | 332 | 333 | 0.4% |
| Methanol Flex | | | | | | | | | | | | | | |
| Mini-compact Cars | 243 | 244 | 245 | 245 | 246 | 247 | 247 | 247 | 248 | 249 | 249 | 250 | 250 | 0.4% |
| Subcompact Cars | 245 | 246 | 247 | 247 | 248 | 249 | 249 | 250 | 251 | 251 | 252 | 253 | 253 | 0.1% |
| Compact Cars | 250 | 251 | 252 | 252 | 253 | 253 | 253 | 254 | 255 | 255 | 256 | 256 | 256 | 0.1% |
| Midsize Cars | 260 | 261 | 262 | 263 | 263 | 264 | 264 | 265 | 265 | 266 | 267 | 267 | 267 | 0.1% |
| Large Cars | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 265 | 266 | 267 | 268 | 269 | 269 | 0.1% |
| Two Seater Cars | 230 | 232 | 232 | 233 | 234 | 235 | 235 | 236 | 237 | 237 | 238 | 239 | 239 | 0.2% |

**Table 59. New Light-Duty Vehicle Range (Miles)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Small Pickup | 241 | 243 | 245 | 247 | 249 | 250 | 251 | 253 | 255 | 256 | 257 | 258 | 259 | 0.4% |
| Large Pickup | 283 | 285 | 287 | 289 | 291 | 293 | 294 | 295 | 297 | 299 | 300 | 301 | 302 | 0.4% |
| Small Van | 296 | 298 | 299 | 301 | 302 | 303 | 304 | 306 | 308 | 309 | 311 | 312 | 312 | 0.2% |
| Large Van | 350 | 353 | 355 | 358 | 361 | 363 | 364 | 366 | 369 | 371 | 373 | 375 | 377 | 0.5% |
| Small Utility | 239 | 240 | 242 | 244 | 245 | 247 | 248 | 249 | 251 | 252 | 253 | 254 | 255 | 0.5% |
| Large Utility | 282 | 284 | 286 | 288 | 290 | 291 | 292 | 294 | 296 | 298 | 299 | 300 | 301 | 0.4% |
| Ethanol | | | | | | | | | | | | | | |
| Mini-compact Cars | 324 | 326 | 326 | 327 | 328 | 329 | 329 | 330 | 331 | 332 | 333 | 333 | 334 | 0.4% |
| Subcompact Cars | 326 | 328 | 329 | 330 | 331 | 332 | 332 | 333 | 334 | 335 | 336 | 337 | 337 | 0.1% |
| Compact Cars | 333 | 334 | 335 | 336 | 337 | 337 | 338 | 338 | 339 | 340 | 341 | 341 | 342 | 0.1% |
| Midsize Cars | 347 | 348 | 349 | 350 | 351 | 352 | 352 | 353 | 354 | 355 | 355 | 356 | 356 | 0.1% |
| Large Cars | 345 | 347 | 348 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 358 | 0.1% |
| Two Seater Cars | 307 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 317 | 318 | 319 | 0.2% |
| Small Pickup | 321 | 324 | 327 | 329 | 332 | 334 | 335 | 337 | 340 | 341 | 343 | 344 | 345 | 0.4% |
| Large Pickup | 377 | 380 | 383 | 386 | 388 | 390 | 392 | 394 | 396 | 398 | 400 | 401 | 402 | 0.4% |
| Small Van | 395 | 397 | 399 | 401 | 403 | 404 | 406 | 408 | 410 | 412 | 414 | 415 | 417 | 0.2% |
| Large Van | 467 | 470 | 474 | 477 | 481 | 484 | 486 | 488 | 492 | 495 | 498 | 500 | 503 | 0.5% |
| Small Utility | 318 | 321 | 323 | 325 | 327 | 329 | 330 | 332 | 335 | 336 | 338 | 339 | 340 | 0.5% |
| Large Utility | 376 | 379 | 381 | 384 | 387 | 388 | 390 | 392 | 395 | 397 | 399 | 401 | 402 | 0.4% |
| Ethanol Flex | | | | | | | | | | | | | | |
| Mini-compact Cars | 312 | 313 | 314 | 314 | 315 | 316 | 316 | 317 | 318 | 319 | 319 | 320 | 321 | 0.4% |
| Subcompact Cars | 313 | 315 | 316 | 317 | 318 | 319 | 319 | 320 | 321 | 322 | 323 | 323 | 324 | 0.1% |
| Compact Cars | 320 | 321 | 322 | 323 | 324 | 324 | 324 | 325 | 326 | 327 | 327 | 328 | 328 | 0.1% |
| Midsize Cars | 333 | 334 | 335 | 336 | 337 | 338 | 338 | 339 | 340 | 341 | 341 | 342 | 342 | 0.1% |
| Large Cars | 331 | 333 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 344 | 0.1% |
| Two Seater Cars | 295 | 297 | 298 | 299 | 300 | 301 | 301 | 302 | 303 | 304 | 305 | 306 | 306 | 0.2% |
| Small Pickup | 309 | 311 | 314 | 316 | 319 | 320 | 322 | 324 | 326 | 328 | 329 | 330 | 331 | 0.4% |
| Large Pickup | 363 | 365 | 368 | 370 | 373 | 375 | 376 | 378 | 381 | 383 | 384 | 385 | 387 | 0.4% |
| Small Van | 380 | 382 | 383 | 385 | 387 | 388 | 390 | 392 | 394 | 396 | 398 | 399 | 400 | 0.2% |
| Large Van | 448 | 452 | 455 | 459 | 462 | 465 | 467 | 469 | 473 | 475 | 478 | 481 | 483 | 0.5% |
| Small Utility | 306 | 308 | 310 | 312 | 314 | 316 | 317 | 319 | 321 | 323 | 325 | 326 | 327 | 0.5% |
| Large Utility | 361 | 364 | 366 | 369 | 371 | 373 | 375 | 377 | 380 | 381 | 383 | 385 | 386 | 0.4% |
| Compressed Natural Gas (CNG) | | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Compact Cars | 263 | 264 | 265 | 265 | 266 | 266 | 267 | 267 | 268 | 269 | 269 | 269 | 270 | 0.1% |
| Midsize Cars | 274 | 275 | 276 | 276 | 277 | 278 | 278 | 279 | 279 | 280 | 281 | 281 | 281 | 0.1% |
| Large Cars | 272 | 274 | 275 | 276 | 277 | 278 | 279 | 279 | 280 | 281 | 282 | 283 | 283 | 0.1% |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Pickup | 254 | 256 | 258 | 260 | 262 | 263 | 265 | 266 | 268 | 270 | 271 | 272 | 272 | 0.4% |
| Large Pickup | 298 | 300 | 302 | 304 | 306 | 308 | 309 | 311 | 313 | 315 | 316 | 317 | 318 | 0.4% |
| Small Van | 312 | 314 | 315 | 317 | 318 | 319 | 320 | 322 | 324 | 325 | 327 | 328 | 329 | 0.2% |
| Large Van | 368 | 371 | 374 | 377 | 380 | 382 | 383 | 386 | 389 | 391 | 393 | 395 | 397 | 0.5% |
| Small Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| CNG Bi-Fuel | | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Compact Cars | 219 | 220 | 221 | 221 | 222 | 222 | 222 | 223 | 223 | 224 | 224 | 225 | 225 | 0.1% |

**Table 59. New Light-Duty Vehicle Range (Miles)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Midsize Cars | 228 | 229 | 230 | 230 | 231 | 231 | 232 | 232 | 233 | 233 | 234 | 234 | 234 | 0.1% |
| Large Cars | 227 | 228 | 229 | 230 | 231 | 232 | 232 | 233 | 234 | 234 | 235 | 236 | 236 | 0.1% |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Pickup | 212 | 213 | 215 | 217 | 218 | 219 | 221 | 222 | 224 | 225 | 226 | 226 | 227 | 0.4% |
| Large Pickup | 248 | 250 | 252 | 254 | 255 | 257 | 258 | 259 | 261 | 262 | 263 | 264 | 265 | 0.4% |
| Small Van | 260 | 261 | 263 | 264 | 265 | 266 | 267 | 268 | 270 | 271 | 272 | 273 | 274 | 0.2% |
| Large Van | 307 | 310 | 312 | 314 | 316 | 318 | 320 | 321 | 324 | 326 | 328 | 329 | 331 | 0.5% |
| Small Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Liquefied Petroleum Gas (LPG) | | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Subcompact Cars | 365 | 366 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 377 | 0.1% |
| Compact Cars | 372 | 374 | 375 | 376 | 377 | 377 | 378 | 378 | 380 | 380 | 381 | 382 | 382 | 0.1% |
| Midsize Cars | 388 | 389 | 390 | 392 | 393 | 393 | 394 | 395 | 396 | 397 | 398 | 398 | 399 | 0.1% |
| Large Cars | 386 | 388 | 389 | 391 | 393 | 394 | 395 | 396 | 397 | 398 | 400 | 400 | 401 | 0.1% |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Pickup | 360 | 362 | 366 | 368 | 371 | 373 | 375 | 377 | 380 | 382 | 384 | 385 | 386 | 0.4% |
| Large Pickup | 422 | 425 | 428 | 431 | 434 | 436 | 438 | 440 | 443 | 446 | 447 | 449 | 450 | 0.4% |
| Small Van | 442 | 444 | 446 | 449 | 450 | 452 | 454 | 456 | 459 | 461 | 463 | 465 | 466 | 0.2% |
| Large Van | 522 | 526 | 530 | 534 | 538 | 541 | 543 | 546 | 551 | 554 | 557 | 559 | 562 | 0.5% |
| Small Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Large Utility | 421 | 424 | 426 | 430 | 432 | 434 | 436 | 439 | 442 | 444 | 446 | 448 | 450 | 0.4% |
| LPG Bi-Fuel | | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Compact Cars | 350 | 352 | 353 | 354 | 355 | 355 | 356 | 356 | 357 | 358 | 359 | 359 | 360 | 0.1% |
| Midsize Cars | 365 | 366 | 368 | 369 | 370 | 370 | 371 | 371 | 373 | 373 | 374 | 375 | 375 | 0.1% |
| Large Cars | 363 | 365 | 367 | 368 | 369 | 371 | 371 | 372 | 374 | 375 | 376 | 377 | 377 | 0.1% |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Pickup | 338 | 341 | 344 | 347 | 349 | 351 | 353 | 355 | 358 | 359 | 361 | 362 | 363 | 0.4% |
| Large Pickup | 397 | 400 | 403 | 406 | 408 | 411 | 412 | 414 | 417 | 419 | 421 | 422 | 424 | 0.4% |
| Small Van | 416 | 418 | 420 | 422 | 424 | 425 | 427 | 429 | 432 | 434 | 436 | 437 | 439 | 0.2% |
| Large Van | 491 | 495 | 499 | 503 | 506 | 509 | 511 | 514 | 518 | 521 | 524 | 527 | 529 | 0.5% |
| Small Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Large Utility | 396 | 399 | 401 | 404 | 407 | 409 | 410 | 413 | 416 | 418 | 420 | 422 | 423 | 0.4% |
| Electric | | | | | | | | | | | | | | |
| Mini-compact Cars | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | N/A |
| Subcompact Cars | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | N/A |
| Compact Cars | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | N/A |
| Midsize Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Large Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Two Seater Cars | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | N/A |
| Small Pickup | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | N/A |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Van | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | N/A |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Diesel-Electric Hybrid | | | | | | | | | | | | | | |

**Table 59. New Light-Duty Vehicle Range (Miles)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mini-compact Cars | 555 | 557 | 558 | 560 | 561 | 562 | 563 | 564 | 566 | 567 | 569 | 570 | 571 | 0.4% |
| Subcompact Cars | 558 | 560 | 563 | 564 | 566 | 567 | 568 | 570 | 572 | 574 | 575 | 576 | 577 | 0.1% |
| Compact Cars | 569 | 572 | 574 | 575 | 576 | 577 | 578 | 579 | 581 | 582 | 583 | 584 | 584 | 0.1% |
| Midsize Cars | 593 | 595 | 597 | 599 | 601 | 602 | 603 | 604 | 605 | 607 | 608 | 609 | 610 | 0.1% |
| Large Cars | 590 | 593 | 596 | 598 | 600 | 602 | 603 | 605 | 608 | 609 | 611 | 612 | 613 | 0.1% |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Van | 676 | 679 | 683 | 686 | 689 | 691 | 694 | 697 | 702 | 705 | 708 | 711 | 713 | 0.2% |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Utility | 544 | 548 | 552 | 556 | 559 | 562 | 565 | 568 | 572 | 575 | 578 | 580 | 582 | 0.5% |
| Large Utility | 643 | 648 | 652 | 657 | 661 | 664 | 667 | 671 | 676 | 679 | 682 | 685 | 688 | 0.4% |
| Gasoline-Electric Hybrid | | | | | | | | | | | | | | |
| Mini-compact Cars | 534 | 536 | 537 | 538 | 540 | 541 | 542 | 543 | 544 | 546 | 547 | 548 | 549 | 0.4% |
| Subcompact Cars | 536 | 539 | 541 | 543 | 544 | 545 | 547 | 548 | 550 | 551 | 553 | 554 | 554 | 0.1% |
| Compact Cars | 547 | 550 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 561 | 561 | 562 | 0.1% |
| Midsize Cars | 571 | 572 | 574 | 576 | 578 | 579 | 579 | 580 | 582 | 583 | 585 | 586 | 586 | 0.1% |
| Large Cars | 567 | 570 | 573 | 575 | 577 | 579 | 580 | 582 | 584 | 586 | 588 | 589 | 590 | 0.1% |
| Two Seater Cars | 505 | 508 | 510 | 512 | 514 | 515 | 516 | 517 | 519 | 521 | 522 | 523 | 524 | 0.2% |
| Small Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Van | 650 | 653 | 656 | 660 | 662 | 665 | 667 | 670 | 675 | 678 | 681 | 683 | 685 | 0.2% |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Utility | 523 | 527 | 531 | 534 | 538 | 541 | 543 | 547 | 550 | 553 | 556 | 558 | 560 | 0.5% |
| Large Utility | 619 | 623 | 627 | 632 | 636 | 639 | 641 | 645 | 650 | 653 | 656 | 659 | 661 | 0.4% |
| Fuel Cell Methanol | | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Compact Cars | 438 | 440 | 441 | 442 | 443 | 444 | 444 | 445 | 447 | 448 | 448 | 449 | 449 | 0.1% |
| Midsize Cars | 456 | 458 | 459 | 461 | 462 | 463 | 464 | 464 | 466 | 467 | 468 | 468 | 469 | 0.1% |
| Large Cars | 454 | 456 | 458 | 460 | 462 | 463 | 464 | 465 | 467 | 469 | 470 | 471 | 472 | 0.1% |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Van | 520 | 523 | 525 | 528 | 530 | 532 | 534 | 536 | 540 | 542 | 545 | 547 | 548 | 0.2% |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Utility | 419 | 422 | 424 | 427 | 430 | 433 | 435 | 437 | 440 | 442 | 445 | 446 | 448 | 0.5% |
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Fuel Cell Hydrogen | | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Compact Cars | 438 | 440 | 441 | 442 | 443 | 444 | 444 | 445 | 447 | 448 | 448 | 449 | 449 | 0.1% |
| Midsize Cars | 456 | 458 | 459 | 461 | 462 | 463 | 464 | 464 | 466 | 467 | 468 | 468 | 469 | 0.1% |
| Large Cars | 454 | 456 | 458 | 460 | 462 | 463 | 464 | 465 | 467 | 469 | 470 | 471 | 472 | 0.1% |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Van | 520 | 523 | 525 | 528 | 530 | 532 | 534 | 536 | 540 | 542 | 545 | 547 | 548 | 0.2% |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Utility | 419 | 422 | 424 | 427 | 430 | 433 | 435 | 437 | 440 | 442 | 445 | 446 | 448 | 0.5% |

**Table 59. New Light-Duty Vehicle Range (Miles)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| | | | | | | | | | | | | | | |
| Fuel Cell Gasoline | | | | | | | | | | | | | | |
| Mini-compact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Subcompact Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Compact Cars | 438 | 440 | 441 | 442 | 443 | 444 | 444 | 445 | 447 | 448 | 448 | 449 | 449 | 0.1% |
| Midsize Cars | 456 | 458 | 459 | 461 | 462 | 463 | 464 | 464 | 466 | 467 | 468 | 468 | 469 | 0.1% |
| Large Cars | 454 | 456 | 458 | 460 | 462 | 463 | 464 | 465 | 467 | 469 | 470 | 471 | 472 | 0.1% |
| Two Seater Cars | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Large Pickup | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Van | 520 | 523 | 525 | 528 | 530 | 532 | 534 | 536 | 540 | 542 | 545 | 547 | 548 | 0.2% |
| Large Van | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| Small Utility | 419 | 422 | 424 | 427 | 430 | 433 | 435 | 437 | 440 | 442 | 445 | 446 | 448 | 0.5% |
| Large Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |

**Table 59. New Light-Duty Vehicle Range**
**(Miles)**

Sources: 2001 derived using: Energy and Environmental Analysis Inc., Updates to the Fuel Economy Model, prepared for Energy Information Administration (EIA) (Washington, DC, June 1998); and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 60. Electric Power Projections for EMM Region**
**East Central Area Reliability Coordination Agreement**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 84.37 | 84.34 | 84.34 | 84.33 | 84.17 | 83.59 | 81.64 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 |
| Other Fossil Steam 2/ | 3.78 | 3.80 | 3.80 | 3.80 | 3.80 | 3.78 | 2.21 | 2.21 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Combined Cycle | 2.39 | 4.17 | 7.27 | 9.66 | 10.11 | 12.01 | 12.01 | 12.51 | 12.51 | 16.50 | 16.50 | 18.59 | 18.59 |
| Combustion Turbine/Diesel | 10.34 | 14.06 | 19.27 | 20.03 | 20.03 | 21.36 | 21.25 | 21.22 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 |
| Nuclear Power | 7.66 | 7.66 | 7.67 | 7.67 | 7.67 | 7.68 | 7.68 | 7.05 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 |
| Pumped Storage/Other 3/ | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 1.51 | 1.66 | 1.74 | 1.83 | 1.85 | 1.87 | 1.87 | 1.87 | 1.87 | 1.95 | 1.95 | 1.98 | 1.98 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Capacity | 113.42 | 119.05 | 127.44 | 130.67 | 130.98 | 133.66 | 130.03 | 129.55 | 126.36 | 130.42 | 130.42 | 132.53 | 132.53 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 3.10 | 5.49 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 5.31 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.07 | 0.13 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 8.49 | 12.03 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.90 | 1.90 | 2.45 | 2.45 | 6.44 | 6.44 | 8.52 | 8.52 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.09 | 0.09 | 0.13 | 0.13 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 3.60 | 4.15 | 4.15 | 8.21 | 8.21 | 10.32 | 10.32 |
| Cumulative Total Additions | 0.00 | 0.00 | 8.49 | 12.03 | 12.50 | 16.10 | 16.10 | 16.65 | 16.65 | 20.71 | 20.71 | 22.82 | 22.82 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.01 | 0.17 | 0.75 | 2.70 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 1.58 | 1.58 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.11 | 0.46 | 0.46 | 0.80 | 0.91 | 0.94 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.11 | 0.47 | 0.63 | 1.56 | 5.19 | 6.34 | 9.54 | 9.54 | 9.54 | 9.54 | 9.54 |
| Combined Heat and Power 8/ | | | | | | | | | | | | | |

**Table 60. Electric Power Projections for EMM Region**
**East Central Area Reliability Coordination Agreement**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | |
| Coal | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 |
| Petroleum | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Natural Gas | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 |
| Other Gaseous Fuels | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Renewable Sources 4/ | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.18 | 0.19 |
| Other | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| Total | 1.54 | 1.54 | 1.55 | 1.56 | 1.57 | 1.58 | 1.59 | 1.60 | 1.61 | 1.62 | 1.63 | 1.64 | 1.65 |
| Other End Use Generators | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 159.55 | 162.17 | 169.63 | 174.92 | 178.38 | 181.17 | 184.35 | 187.99 | 192.01 | 194.91 | 197.88 | 200.25 | 202.88 |
| Commercial/Other | 136.30 | 141.93 | 149.37 | 148.99 | 152.30 | 155.22 | 158.14 | 161.12 | 163.69 | 166.18 | 168.40 | 170.74 | 172.94 |
| Industrial | 217.42 | 201.46 | 189.21 | 199.25 | 204.39 | 207.27 | 211.96 | 218.16 | 224.49 | 229.56 | 235.74 | 241.45 | 246.30 |
| Transportation | 3.02 | 3.08 | 3.19 | 3.25 | 3.31 | 3.39 | 3.46 | 3.53 | 3.61 | 3.70 | 3.78 | 3.88 | 3.97 |
| Total Sales | 516.28 | 508.63 | 511.41 | 526.42 | 538.38 | 547.05 | 557.91 | 570.81 | 583.80 | 594.35 | 605.80 | 616.31 | 626.09 |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 1.45 | 0.07 | 2.96 | 8.88 | 9.55 | 8.44 | 3.65 | 5.31 | 8.43 | 7.49 | 8.27 | 8.12 | 8.76 |
| Gross International Exports | 1.21 | 2.10 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Gross Interregional Electricity Imports | 7.08 | 6.38 | 5.89 | 5.70 | 5.61 | 5.60 | 5.60 | 5.60 | 5.62 | 5.60 | 5.06 | 4.50 | 4.08 |
| Gross Interregional Electricity Exports | 52.20 | 46.64 | 55.33 | 62.72 | 65.60 | 67.14 | 66.24 | 67.91 | 66.08 | 74.29 | 69.57 | 71.32 | 68.95 |
| Purchases from Combined Heat and Power 8/ | 1.65 | 1.59 | 1.71 | 1.84 | 1.94 | 2.03 | 2.11 | 2.20 | 2.30 | 2.43 | 2.57 | 2.70 | 2.81 |
| Electric Power Sector Generation for Customers | 560.16 | 542.24 | 577.60 | 595.46 | 610.54 | 621.86 | 636.83 | 649.95 | 658.32 | 677.85 | 684.64 | 697.63 | 704.86 |
| Total Net Energy for Load | 516.92 | 501.55 | 532.78 | 549.11 | 562.00 | 570.75 | 581.89 | 595.10 | 608.55 | 619.03 | 630.93 | 641.58 | 651.52 |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 505.67 | 482.34 | 492.23 | 504.41 | 510.12 | 517.99 | 529.68 | 545.96 | 556.64 | 563.18 | 566.85 | 570.75 | 574.41 |
| Petroleum | 3.26 | 1.95 | 0.43 | 0.77 | 0.72 | 0.72 | 0.69 | 0.70 | 0.68 | 0.61 | 0.58 | 0.55 | 0.54 |
| Natural Gas | 14.60 | 15.53 | 40.07 | 43.85 | 52.37 | 53.71 | 56.74 | 55.88 | 63.54 | 76.18 | 78.53 | 87.50 | 91.16 |
| Nuclear | 47.76 | 55.35 | 56.87 | 57.11 | 57.30 | 57.88 | 58.07 | 56.91 | 47.07 | 47.22 | 47.35 | 47.41 | 47.47 |
| Pumped Storage/Other 3/ | -0.92 | -1.61 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 |
| Renewable Sources 4/ | 5.37 | 5.77 | 6.05 | 6.62 | 6.87 | 8.53 | 8.70 | 7.71 | 7.73 | 8.11 | 8.83 | 8.93 | 8.88 |
| Total Generation | 575.75 | 559.32 | 595.64 | 612.75 | 627.36 | 638.81 | 653.86 | 667.15 | 675.64 | 695.29 | 702.14 | 715.14 | 722.45 |
| Sales to Customers | 573.00 | 554.83 | 590.63 | 607.72 | 622.31 | 633.74 | 648.77 | 662.05 | 670.55 | 690.20 | 697.05 | 710.05 | 717.36 |
| Generation for Own Use | 2.75 | 4.48 | 5.01 | 5.03 | 5.06 | 5.07 | 5.09 | 5.10 | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 5.07 | 5.06 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 |
| Petroleum | 0.26 | 0.25 | 0.28 | 0.28 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 |
| Natural Gas | 1.45 | 1.45 | 1.56 | 1.61 | 1.66 | 1.72 | 1.78 | 1.84 | 1.90 | 1.96 | 2.01 | 2.06 | 2.11 |
| Other Gaseous Fuels | 0.27 | 0.26 | 0.27 | 0.27 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 |
| Renewable Sources 4/ | 4.67 | 4.66 | 4.62 | 4.82 | 4.98 | 5.10 | 5.20 | 5.33 | 5.47 | 5.67 | 5.90 | 6.11 | 6.29 |
| Other | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| Total | 12.81 | 12.76 | 12.88 | 13.13 | 13.39 | 13.57 | 13.73 | 13.92 | 14.12 | 14.38 | 14.66 | 14.92 | 15.15 |
| Other End Use Generators | 0.64 | 0.64 | 0.65 | 0.65 | 0.66 | 0.67 | 0.68 | 0.69 | 0.71 | 0.73 | 0.76 | 0.76 | 0.76 |
| Sales to Utilities | 1.65 | 1.59 | 1.71 | 1.84 | 1.94 | 2.03 | 2.11 | 2.20 | 2.30 | 2.43 | 2.57 | 2.70 | 2.81 |
| Generation for Own Use | 11.79 | 11.81 | 11.82 | 11.95 | 12.11 | 12.21 | 12.30 | 12.41 | 12.53 | 12.68 | 12.85 | 12.98 | 13.10 |

**Table 60. Electric Power Projections for EMM Region**
**East Central Area Reliability Coordination Agreement**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 7.7 | 7.6 | 7.3 | 7.1 | 7.0 | 6.8 | 6.7 | 6.5 | 6.5 | 6.4 | 6.4 | 6.5 | 6.6 |
| Commercial | 6.8 | 6.6 | 6.7 | 6.3 | 6.3 | 6.2 | 6.0 | 5.8 | 5.8 | 5.7 | 5.8 | 5.8 | 6.0 |
| Industrial | 4.3 | 4.2 | 4.1 | 4.2 | 4.2 | 4.2 | 4.1 | 4.0 | 4.1 | 4.1 | 4.1 | 4.1 | 4.2 |
| Transportation | 6.7 | 6.2 | 5.8 | 5.9 | 5.9 | 5.9 | 5.7 | 5.5 | 5.5 | 5.3 | 5.4 | 5.4 | 5.5 |
| All Sectors Average | 6.0 | 6.0 | 5.9 | 5.8 | 5.7 | 5.7 | 5.5 | 5.3 | 5.4 | 5.3 | 5.4 | 5.4 | 5.5 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 3.8 | 4.0 | 3.9 | 3.8 | 3.7 | 3.6 | 3.5 | 3.3 | 3.4 | 3.3 | 3.4 | 3.4 | 3.6 |
| Transmission | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Distribution | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 5.25 | 5.11 | 4.96 | 5.09 | 5.13 | 5.20 | 5.32 | 5.49 | 5.60 | 5.67 | 5.72 | 5.76 | 5.80 |
| Natural Gas | 0.17 | 0.17 | 0.38 | 0.40 | 0.47 | 0.46 | 0.48 | 0.47 | 0.54 | 0.62 | 0.64 | 0.69 | 0.72 |
| Oil | 0.13 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Total | 5.55 | 5.39 | 5.45 | 5.59 | 5.69 | 5.76 | 5.90 | 6.06 | 6.24 | 6.39 | 6.45 | 6.55 | 6.62 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 153.49 | 147.79 | 145.15 | 149.17 | 151.28 | 153.34 | 157.03 | 161.61 | 165.89 | 169.19 | 170.74 | 172.92 | 174.59 |
| Carbon Dioxide | 562.79 | 541.91 | 532.20 | 546.97 | 554.68 | 562.26 | 575.76 | 592.59 | 608.28 | 620.38 | 626.06 | 634.04 | 640.15 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 1.33 | 1.25 | 1.11 | 1.14 | 0.80 | 0.80 | 0.83 | 0.86 | 0.88 | 0.90 | 0.90 | 0.90 | 0.91 |

**Table 60. Electric Power Projections for EMM Region**
**East Central Area Reliability Coordination Agreement**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.52 | 81.52 | 81.96 | -0.1% |
| Other Fossil Steam 2/ | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | -6.3% |
| Combined Cycle | 20.08 | 20.08 | 22.43 | 22.43 | 25.61 | 25.61 | 29.22 | 29.22 | 33.21 | 33.21 | 37.69 | 37.69 | 42.04 | 10.1% |
| Combustion Turbine/Diesel | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.59 | 20.38 | 20.81 | 1.6% |
| Nuclear Power | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | -1.0% |
| Pumped Storage/Other 3/ | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 1.98 | 1.98 | 2.02 | 2.02 | 2.04 | 2.04 | 2.10 | 2.10 | 2.14 | 2.14 | 2.22 | 2.22 | 2.26 | 1.3% |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Capacity | 134.03 | 134.03 | 136.41 | 136.41 | 139.62 | 139.62 | 143.29 | 143.29 | 147.31 | 147.31 | 152.16 | 151.95 | 157.21 | 1.2% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | 5.94 | N/A |
| Combustion Turbine/Diesel | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | 6.42 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | 12.50 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.20 | 0.20 | 0.64 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 10.02 | 10.02 | 12.36 | 12.36 | 15.55 | 15.55 | 19.16 | 19.16 | 23.14 | 23.14 | 27.63 | 27.63 | 31.97 | N/A |
| Combustion Turbine/Diesel | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.76 | 1.76 | 2.19 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.13 | 0.13 | 0.17 | 0.17 | 0.19 | 0.19 | 0.25 | 0.25 | 0.29 | 0.29 | 0.37 | 0.37 | 0.41 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Unplanned Additions | 11.82 | 11.82 | 14.20 | 14.20 | 17.41 | 17.41 | 21.08 | 21.08 | 25.11 | 25.11 | 29.95 | 29.95 | 35.21 | N/A |
| Cumulative Total Additions | 24.32 | 24.32 | 26.70 | 26.70 | 29.91 | 29.91 | 33.58 | 33.58 | 37.61 | 37.61 | 42.45 | 42.45 | 47.71 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | N/A |
| Other Fossil Steam 3/ | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | N/A |
| Combined Cycle | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | N/A |
| Combustion Turbine/Diesel | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.66 | 1.87 | 1.87 | N/A |
| Nuclear Power | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 9.54 | 9.54 | 9.54 | 9.54 | 9.54 | 9.54 | 9.54 | 9.54 | 9.54 | 9.54 | 9.54 | 9.75 | 9.75 | N/A |
| Combined Heat and Power 8/ | | | | | | | | | | | | | | |

**Table 60. Electric Power Projections for EMM Region**
**East Central Area Reliability Coordination Agreement**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | | |
| Coal | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 0.0% |
| Petroleum | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.6% |
| Natural Gas | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 0.25 | 0.25 | 0.26 | 0.27 | 0.28 | 0.29 | 0.30 | 0.31 | 2.7% |
| Other Gaseous Fuels | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.3% |
| Renewable Sources 4/ | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.21 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 | 2.7% |
| Other | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | N/A |
| Total | 1.66 | 1.67 | 1.68 | 1.69 | 1.70 | 1.71 | 1.72 | 1.74 | 1.75 | 1.77 | 1.78 | 1.80 | 1.81 | 0.7% |
| Other End Use Generators | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 2.5% |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 204.46 | 206.70 | 209.36 | 212.12 | 214.09 | 216.46 | 219.17 | 222.09 | 224.06 | 226.51 | 229.45 | 232.68 | 235.23 | 1.6% |
| Commercial/Other | 175.39 | 177.94 | 180.63 | 183.25 | 186.17 | 189.11 | 192.37 | 195.51 | 199.07 | 202.55 | 206.40 | 210.00 | 214.09 | 1.7% |
| Industrial | 250.21 | 254.22 | 257.25 | 259.71 | 263.02 | 266.33 | 270.45 | 273.54 | 276.77 | 280.98 | 285.15 | 289.79 | 293.85 | 1.6% |
| Transportation | 4.06 | 4.15 | 4.25 | 4.34 | 4.45 | 4.56 | 4.67 | 4.80 | 4.94 | 5.06 | 5.19 | 5.32 | 5.44 | 2.4% |
| Total Sales | 634.12 | 643.01 | 651.48 | 659.41 | 667.72 | 676.46 | 686.67 | 695.94 | 704.84 | 715.10 | 726.19 | 737.79 | 748.61 | 1.6% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 8.46 | 7.63 | 5.75 | 4.16 | 2.72 | 1.59 | 0.48 | 0.09 | 0.01 | 0.00 | 0.13 | 0.01 | 0.00 | N/A |
| Gross International Exports | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | -14.9% |
| Gross Interregional Electricity Imports | 3.42 | 2.94 | 2.49 | 2.13 | 1.46 | 0.74 | 0.75 | 0.30 | 0.43 | 0.50 | 0.56 | 1.38 | 2.29 | -4.2% |
| Gross Interregional Electricity Exports | 69.14 | 62.88 | 63.40 | 58.79 | 60.39 | 54.31 | 57.35 | 53.35 | 61.83 | 56.54 | 62.60 | 47.50 | 52.46 | 0.5% |
| Purchases from Combined Heat and Power 8/ | 2.91 | 3.02 | 3.10 | 3.18 | 3.27 | 3.37 | 3.48 | 3.58 | 3.68 | 3.80 | 3.91 | 4.05 | 4.18 | 4.1% |
| Electric Power Sector Generation for Customers | 714.04 | 718.04 | 729.21 | 734.88 | 747.24 | 752.27 | 767.16 | 773.79 | 791.36 | 796.82 | 814.31 | 810.94 | 826.24 | 1.8% |
| Total Net Energy for Load | 659.65 | 668.70 | 677.11 | 685.52 | 694.26 | 703.62 | 714.46 | 724.36 | 733.59 | 744.54 | 756.27 | 768.85 | 780.20 | 1.9% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 577.07 | 579.08 | 580.36 | 582.09 | 582.37 | 582.81 | 584.10 | 586.23 | 586.84 | 587.81 | 590.64 | 591.48 | 595.27 | 0.9% |
| Petroleum | 0.54 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.67 | 0.67 | 0.69 | 0.69 | 0.69 | 0.74 | -4.0% |
| Natural Gas | 97.55 | 99.39 | 109.02 | 112.95 | 124.95 | 129.47 | 142.69 | 147.13 | 163.91 | 168.40 | 182.67 | 178.46 | 189.87 | 11.0% |
| Nuclear | 47.54 | 47.60 | 47.66 | 47.72 | 47.79 | 47.85 | 47.91 | 47.98 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | -0.6% |
| Pumped Storage/Other 3/ | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -18.5% |
| Renewable Sources 4/ | 8.93 | 8.98 | 9.31 | 9.30 | 9.32 | 9.33 | 9.52 | 9.43 | 9.58 | 9.57 | 9.83 | 9.83 | 9.89 | 2.3% |
| Total Generation | 731.60 | 735.65 | 746.94 | 752.66 | 765.02 | 770.05 | 784.82 | 791.43 | 808.99 | 814.46 | 831.82 | 828.45 | 843.75 | 1.7% |
| Sales to Customers | 726.51 | 730.56 | 741.85 | 747.57 | 759.93 | 764.96 | 779.73 | 786.34 | 803.90 | 809.37 | 826.73 | 823.36 | 838.66 | 1.7% |
| Generation for Own Use | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 | 5.09 | 0.5% |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 0.0% |
| Petroleum | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.5% |
| Natural Gas | 2.15 | 2.20 | 2.26 | 2.32 | 2.39 | 2.46 | 2.55 | 2.64 | 2.74 | 2.85 | 2.96 | 3.09 | 3.20 | 3.4% |
| Other Gaseous Fuels | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.33 | 0.33 | 0.33 | 0.34 | 0.34 | 0.35 | 0.36 | 1.4% |
| Renewable Sources 4/ | 6.46 | 6.64 | 6.79 | 6.92 | 7.07 | 7.23 | 7.39 | 7.54 | 7.69 | 7.86 | 8.03 | 8.21 | 8.38 | 2.5% |
| Other | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 0.0% |
| Total | 15.36 | 15.59 | 15.79 | 15.99 | 16.20 | 16.44 | 16.70 | 16.95 | 17.19 | 17.48 | 17.77 | 18.09 | 18.37 | 1.5% |
| Other End Use Generators | 0.77 | 0.77 | 0.78 | 0.79 | 0.80 | 0.81 | 0.81 | 0.83 | 0.85 | 0.87 | 0.89 | 0.91 | 0.93 | 1.6% |
| Sales to Utilities | 2.91 | 3.02 | 3.10 | 3.18 | 3.27 | 3.37 | 3.48 | 3.58 | 3.68 | 3.80 | 3.91 | 4.05 | 4.18 | 4.1% |
| Generation for Own Use | 13.22 | 13.34 | 13.47 | 13.59 | 13.73 | 13.88 | 14.03 | 14.21 | 14.37 | 14.56 | 14.74 | 14.95 | 15.13 | 1.0% |

**Table 60. Electric Power Projections for EMM Region**
**East Central Area Reliability Coordination Agreement**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 6.6 | 6.7 | 6.6 | 6.8 | 6.6 | 6.8 | 6.6 | 6.9 | 6.7 | 6.9 | 6.6 | 6.9 | 6.6 | -0.6% |
| Commercial | 6.1 | 6.2 | 6.2 | 6.4 | 6.2 | 6.4 | 6.3 | 6.5 | 6.3 | 6.6 | 6.3 | 6.7 | 6.3 | -0.2% |
| Industrial | 4.2 | 4.4 | 4.3 | 4.5 | 4.4 | 4.5 | 4.4 | 4.6 | 4.5 | 4.7 | 4.5 | 4.7 | 4.5 | 0.3% |
| Transportation | 5.5 | 5.5 | 5.4 | 5.5 | 5.4 | 5.4 | 5.3 | 5.4 | 5.3 | 5.4 | 5.2 | 5.4 | 5.1 | -0.8% |
| All Sectors Average | 5.5 | 5.6 | 5.6 | 5.8 | 5.6 | 5.8 | 5.6 | 5.9 | 5.7 | 5.9 | 5.7 | 6.0 | 5.7 | -0.2% |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 3.6 | 3.7 | 3.6 | 3.8 | 3.7 | 3.8 | 3.7 | 3.9 | 3.8 | 4.0 | 3.8 | 4.1 | 3.8 | -0.2% |
| Transmission | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4% |
| Distribution | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | -0.4% |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 5.83 | 5.85 | 5.87 | 5.89 | 5.89 | 5.90 | 5.91 | 5.94 | 5.94 | 5.95 | 5.98 | 5.99 | 6.02 | 0.7% |
| Natural Gas | 0.76 | 0.77 | 0.83 | 0.86 | 0.93 | 0.96 | 1.04 | 1.07 | 1.17 | 1.21 | 1.29 | 1.25 | 1.32 | 9.0% |
| Oil | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | -0.6% |
| Total | 6.69 | 6.72 | 6.79 | 6.84 | 6.92 | 6.96 | 7.05 | 7.10 | 7.21 | 7.25 | 7.36 | 7.34 | 7.43 | 1.4% |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 176.08 | 176.94 | 178.30 | 179.43 | 180.73 | 181.47 | 183.13 | 184.39 | 186.16 | 187.00 | 189.08 | 188.83 | 190.75 | 1.1% |
| Carbon Dioxide | 645.64 | 648.78 | 653.76 | 657.92 | 662.68 | 665.41 | 671.48 | 676.08 | 682.59 | 685.67 | 693.31 | 692.38 | 699.42 | 1.1% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | -1.3% |

**Table 60. Electric Power Projections for EMM Region**
**East Central Area Reliability Coordination Agreement**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 61. Electric Power Projections for EMM Region**
**Electric Reliability Council of Texas**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.82 | 15.82 | 15.82 |
| Other Fossil Steam 2/ | 30.13 | 30.08 | 30.01 | 29.72 | 29.48 | 26.09 | 22.88 | 20.61 | 19.48 | 18.31 | 18.27 | 17.82 | 17.79 |
| Combined Cycle | 7.68 | 11.15 | 15.68 | 16.60 | 17.28 | 17.28 | 17.28 | 17.28 | 19.18 | 19.35 | 23.89 | 23.89 | 27.63 |
| Combustion Turbine/Diesel | 4.86 | 6.96 | 7.52 | 7.10 | 7.10 | 7.08 | 7.08 | 6.73 | 8.51 | 8.50 | 10.54 | 10.54 | 12.35 |
| Nuclear Power | 4.80 | 4.82 | 4.82 | 4.82 | 4.85 | 4.89 | 4.89 | 4.89 | 5.07 | 5.08 | 5.08 | 5.08 | 5.08 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.77 | 1.66 | 1.89 | 2.31 | 2.31 | 2.43 | 2.50 | 2.56 | 2.62 | 2.68 | 2.69 | 2.70 | 2.71 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.10 | 0.17 | 0.25 | 0.31 | 0.39 | 0.45 |
| Total Capacity | 63.48 | 69.91 | 75.16 | 75.78 | 76.26 | 73.04 | 69.89 | 67.41 | 70.27 | 69.42 | 76.60 | 76.23 | 81.83 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 4.57 | 5.48 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.23 | 0.64 | 0.65 | 0.77 | 0.84 | 0.90 | 0.96 | 1.02 | 1.03 | 1.04 | 1.04 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 5.37 | 6.70 | 7.38 | 7.51 | 7.57 | 7.63 | 7.69 | 7.76 | 7.76 | 7.77 | 7.78 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.58 | 0.58 | 0.58 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.90 | 2.07 | 6.61 | 6.61 | 10.35 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.78 | 1.78 | 3.82 | 3.82 | 5.64 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.10 | 0.17 | 0.25 | 0.31 | 0.39 | 0.45 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.10 | 3.85 | 4.10 | 11.32 | 11.40 | 17.02 |
| Cumulative Total Additions | 0.00 | 0.00 | 5.37 | 6.70 | 7.38 | 7.53 | 7.59 | 7.73 | 11.54 | 11.85 | 19.08 | 19.17 | 24.80 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.28 | 0.53 | 3.92 | 7.13 | 9.40 | 10.53 | 11.69 | 11.74 | 12.19 | 12.22 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.43 | 0.43 | 0.44 | 0.44 | 0.79 | 0.79 | 0.80 | 0.81 | 0.81 | 0.81 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.71 | 0.96 | 4.36 | 7.57 | 10.19 | 11.32 | 12.50 | 12.54 | 13.00 | 13.03 |
| Combined Heat and Power 8/ Capacity | | | | | | | | | | | | | |

**Table 61. Electric Power Projections for EMM Region**
**Electric Reliability Council of Texas**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas | 5.25 | 5.35 | 5.53 | 5.67 | 5.77 | 5.94 | 6.12 | 6.29 | 6.46 | 6.63 | 6.78 | 6.92 | 7.05 |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Total | 5.65 | 5.75 | 5.93 | 6.07 | 6.17 | 6.34 | 6.52 | 6.69 | 6.86 | 7.03 | 7.18 | 7.32 | 7.45 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Electricity Demand | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 103.76 | 105.06 | 105.12 | 109.60 | 112.44 | 114.83 | 117.36 | 119.42 | 122.46 | 124.10 | 127.57 | 130.08 | 133.27 |
| Commercial/Other | 82.52 | 83.90 | 83.53 | 85.68 | 88.14 | 90.30 | 92.30 | 93.67 | 95.49 | 96.78 | 99.40 | 101.77 | 104.31 |
| Industrial | 83.29 | 79.25 | 72.47 | 76.00 | 77.72 | 78.50 | 80.73 | 83.27 | 85.93 | 87.50 | 89.91 | 92.15 | 94.32 |
| Transportation | 1.33 | 1.37 | 1.38 | 1.42 | 1.46 | 1.50 | 1.54 | 1.59 | 1.63 | 1.68 | 1.73 | 1.79 | 1.84 |
| Total Sales | 270.90 | 269.57 | 262.51 | 272.70 | 279.75 | 285.14 | 291.93 | 297.95 | 305.51 | 310.06 | 318.62 | 325.78 | 333.75 |
| | | | | | | | | | | | | | |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross International Exports | 0.02 | 0.02 | 0.36 | 0.39 | 0.42 | 0.45 | 0.49 | 0.53 | 0.57 | 0.62 | 0.67 | 0.67 | 0.67 |
| Gross Interregional Electricity Imports | 4.03 | 4.00 | 3.67 | 5.99 | 5.65 | 5.87 | 6.21 | 6.23 | 5.40 | 5.50 | 4.06 | 4.04 | 3.22 |
| Gross Interregional Electricity Exports | 2.27 | 1.92 | 1.63 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.62 | 1.61 | 1.47 | 1.31 | 1.15 |
| Purchases from Combined Heat and Power 8/ | 7.29 | 6.75 | 8.28 | 8.74 | 9.02 | 9.59 | 10.14 | 10.70 | 11.24 | 11.81 | 12.26 | 12.71 | 13.11 |
| Electric Power Sector Generation for Customers | 249.57 | 223.18 | 224.23 | 230.66 | 238.18 | 242.64 | 247.88 | 252.65 | 262.39 | 265.78 | 279.74 | 285.71 | 299.12 |
| Total Net Energy for Load | 258.60 | 231.98 | 234.19 | 243.40 | 250.83 | 256.05 | 262.14 | 267.46 | 276.84 | 280.85 | 293.92 | 300.48 | 313.63 |
| | | | | | | | | | | | | | |
| Generation by Fuel Type | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 106.58 | 102.26 | 103.47 | 103.74 | 106.93 | 109.61 | 111.64 | 114.00 | 112.65 | 112.64 | 116.95 | 116.95 | 116.95 |
| Petroleum | 2.49 | 2.92 | 0.02 | 0.04 | 0.04 | 0.04 | 0.03 | 0.04 | 0.05 | 0.17 | 0.04 | 0.05 | 0.03 |
| Natural Gas | 127.96 | 114.21 | 131.05 | 137.61 | 141.13 | 142.56 | 146.05 | 149.07 | 156.92 | 160.42 | 165.82 | 172.50 | 180.81 |
| Nuclear | 37.56 | 38.16 | 38.22 | 38.30 | 38.65 | 38.97 | 38.97 | 38.97 | 40.40 | 40.49 | 40.49 | 40.49 | 40.49 |
| Pumped Storage/Other 3/ | 1.34 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 1.21 | 1.42 | 4.39 | 5.58 | 5.94 | 6.23 | 6.73 | 6.94 | 7.15 | 7.37 | 7.45 | 7.50 | 7.55 |
| Total Generation | 277.14 | 260.32 | 277.15 | 285.27 | 292.70 | 297.42 | 303.42 | 309.02 | 317.17 | 321.09 | 330.76 | 337.48 | 345.82 |
| Sales to Customers | 274.63 | 255.98 | 269.71 | 277.81 | 285.23 | 289.96 | 295.96 | 301.56 | 309.71 | 313.62 | 323.30 | 330.02 | 338.36 |
| Generation for Own Use | 2.51 | 4.34 | 7.44 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.07 | 0.11 | 0.14 | 0.17 | 0.20 |
| | | | | | | | | | | | | | |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 2.80 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 |
| Petroleum | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Natural Gas | 29.85 | 29.76 | 32.12 | 33.12 | 34.11 | 35.36 | 36.61 | 37.86 | 39.07 | 40.33 | 41.36 | 42.38 | 43.30 |
| Other Gaseous Fuels | 0.11 | 0.10 | 0.11 | 0.11 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |
| Total | 33.59 | 33.48 | 35.87 | 36.87 | 37.87 | 39.13 | 40.37 | 41.62 | 42.83 | 44.10 | 45.12 | 46.14 | 47.06 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Sales to Utilities | 7.29 | 6.75 | 8.28 | 8.74 | 9.02 | 9.59 | 10.14 | 10.70 | 11.24 | 11.81 | 12.26 | 12.71 | 13.11 |
| Generation for Own Use | 26.30 | 26.73 | 27.58 | 28.13 | 28.85 | 29.54 | 30.23 | 30.92 | 31.59 | 32.29 | 32.87 | 33.43 | 33.95 |

**Table 61. Electric Power Projections for EMM Region**
**Electric Reliability Council of Texas**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 8.2 | 8.2 | 7.6 | 7.5 | 7.4 | 7.3 | 7.3 | 8.0 | 7.5 | 8.3 | 7.0 | 7.3 | 7.0 |
| Commercial | 7.4 | 7.7 | 7.3 | 6.9 | 6.7 | 6.6 | 6.5 | 7.5 | 7.0 | 8.0 | 6.5 | 6.7 | 6.3 |
| Industrial | 4.3 | 4.6 | 4.4 | 4.3 | 4.2 | 4.2 | 4.2 | 4.9 | 4.6 | 5.3 | 4.3 | 4.6 | 4.3 |
| Transportation | 6.8 | 7.2 | 6.7 | 6.4 | 6.2 | 6.1 | 6.0 | 6.7 | 6.3 | 7.1 | 5.9 | 6.2 | 6.0 |
| All Sectors Average | 6.8 | 7.0 | 6.6 | 6.4 | 6.3 | 6.2 | 6.2 | 7.0 | 6.5 | 7.4 | 6.1 | 6.4 | 6.0 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 4.2 | 4.6 | 4.2 | 4.1 | 3.9 | 3.8 | 3.9 | 4.7 | 4.3 | 5.1 | 3.8 | 4.1 | 3.8 |
| Transmission | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 |
| Distribution | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 1.14 | 1.10 | 1.09 | 1.09 | 1.12 | 1.15 | 1.17 | 1.20 | 1.18 | 1.18 | 1.22 | 1.22 | 1.22 |
| Natural Gas | 1.34 | 1.19 | 1.13 | 1.18 | 1.20 | 1.21 | 1.25 | 1.28 | 1.31 | 1.34 | 1.31 | 1.37 | 1.38 |
| Oil | 0.27 | 0.36 | 0.44 | 0.45 | 0.45 | 0.45 | 0.46 | 0.47 | 0.45 | 0.46 | 0.42 | 0.43 | 0.39 |
| Total | 2.75 | 2.64 | 2.66 | 2.72 | 2.77 | 2.82 | 2.88 | 2.94 | 2.95 | 2.98 | 2.95 | 3.02 | 2.99 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 55.81 | 53.04 | 49.36 | 50.11 | 51.43 | 52.43 | 53.56 | 54.74 | 54.88 | 55.36 | 55.92 | 56.85 | 57.03 |
| Carbon Dioxide | 204.62 | 194.48 | 181.00 | 183.75 | 188.56 | 192.25 | 196.40 | 200.71 | 201.23 | 202.98 | 205.04 | 208.47 | 209.12 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.39 | 0.37 | 0.21 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 |

**Table 61. Electric Power Projections for EMM Region**
**Electric Reliability Council of Texas**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 15.82 | 16.11 | 16.11 | 16.32 | 16.32 | 16.32 | 16.32 | 16.32 | 16.32 | 16.32 | 16.32 | 16.32 | 16.63 | 0.4% |
| Other Fossil Steam 2/ | 15.71 | 15.71 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.58 | 14.58 | 14.34 | 14.34 | 14.34 | 13.94 | -3.2% |
| Combined Cycle | 27.63 | 31.02 | 31.02 | 32.40 | 32.40 | 32.99 | 32.99 | 33.17 | 33.41 | 33.72 | 34.92 | 35.42 | 36.74 | 5.1% |
| Combustion Turbine/Diesel | 12.35 | 13.00 | 13.00 | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 13.39 | 2.8% |
| Nuclear Power | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 0.2% |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 2.71 | 2.72 | 2.73 | 2.74 | 2.75 | 2.75 | 2.76 | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 | 2.78 | 2.2% |
| Distributed Generation 5/ | 0.45 | 0.53 | 0.57 | 0.64 | 0.71 | 0.78 | 0.84 | 0.90 | 0.96 | 1.02 | 1.08 | 1.13 | 1.19 | N/A |
| Total Capacity | 79.76 | 84.18 | 83.31 | 85.23 | 85.31 | 85.98 | 86.05 | 86.07 | 86.38 | 86.50 | 87.77 | 88.33 | 89.74 | 1.0% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | 6.17 | N/A |
| Combustion Turbine/Diesel | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | 0.57 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 1.05 | 1.06 | 1.07 | 1.08 | 1.08 | 1.09 | 1.10 | 1.11 | 1.11 | 1.11 | 1.11 | 1.12 | 1.12 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 7.79 | 7.79 | 7.80 | 7.81 | 7.82 | 7.83 | 7.83 | 7.84 | 7.84 | 7.85 | 7.85 | 7.85 | 7.85 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.58 | 0.87 | 0.87 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.39 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 10.35 | 13.74 | 13.74 | 15.12 | 15.12 | 15.71 | 15.71 | 15.88 | 16.13 | 16.43 | 17.64 | 18.14 | 19.45 | N/A |
| Combustion Turbine/Diesel | 5.64 | 6.29 | 6.29 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.54 | 6.68 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Distributed Generation 5/ | 0.45 | 0.53 | 0.57 | 0.64 | 0.71 | 0.78 | 0.84 | 0.90 | 0.96 | 1.02 | 1.08 | 1.13 | 1.19 | N/A |
| Total Unplanned Additions | 17.02 | 21.43 | 21.47 | 23.38 | 23.45 | 24.11 | 24.17 | 24.40 | 24.71 | 25.07 | 26.33 | 26.89 | 28.71 | N/A |
| Cumulative Total Additions | 24.80 | 29.23 | 29.27 | 31.19 | 31.27 | 31.93 | 32.01 | 32.25 | 32.55 | 32.92 | 34.18 | 34.75 | 36.56 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 3/ | 14.29 | 14.29 | 15.20 | 15.20 | 15.20 | 15.20 | 15.20 | 15.42 | 15.42 | 15.66 | 15.66 | 15.66 | 16.06 | N/A |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combustion Turbine/Diesel | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | 0.81 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 15.11 | 15.11 | 16.02 | 16.02 | 16.02 | 16.02 | 16.02 | 16.24 | 16.24 | 16.48 | 16.48 | 16.48 | 16.88 | N/A |
| Combined Heat and Power 8/ Capacity | | | | | | | | | | | | | | |

**Table 61. Electric Power Projections for EMM Region**
**Electric Reliability Council of Texas**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.0% |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Natural Gas | 7.18 | 7.32 | 7.48 | 7.66 | 7.84 | 8.07 | 8.31 | 8.59 | 8.88 | 9.21 | 9.52 | 9.89 | 10.22 | 2.7% |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Total | 7.58 | 7.72 | 7.88 | 8.06 | 8.25 | 8.47 | 8.71 | 8.99 | 9.28 | 9.61 | 9.93 | 10.29 | 10.62 | 2.6% |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 134.89 | 137.43 | 139.85 | 142.62 | 144.42 | 146.77 | 149.08 | 151.52 | 153.06 | 155.06 | 157.42 | 160.35 | 162.91 | 1.8% |
| Commercial/Other | 106.21 | 108.21 | 109.85 | 111.46 | 112.97 | 114.66 | 116.37 | 117.91 | 119.36 | 120.62 | 121.99 | 123.27 | 125.04 | 1.7% |
| Industrial | 96.18 | 97.64 | 99.10 | 100.25 | 101.58 | 102.76 | 104.32 | 105.65 | 106.99 | 108.67 | 110.30 | 112.08 | 113.70 | 1.5% |
| Transportation | 1.90 | 1.96 | 2.01 | 2.07 | 2.14 | 2.20 | 2.27 | 2.35 | 2.43 | 2.51 | 2.59 | 2.67 | 2.74 | 2.9% |
| Total Sales | 339.17 | 345.24 | 350.82 | 356.40 | 361.10 | 366.39 | 372.04 | 377.42 | 381.84 | 386.86 | 392.30 | 398.37 | 404.38 | 1.7% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross International Exports | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 16.1% |
| Gross Interregional Electricity Imports | 3.45 | 2.96 | 3.38 | 2.78 | 2.70 | 2.59 | 2.62 | 2.56 | 2.50 | 2.54 | 2.16 | 1.33 | 2.13 | -2.6% |
| Gross Interregional Electricity Exports | 0.98 | 0.81 | 0.65 | 0.49 | 0.34 | 0.18 | 0.10 | 0.03 | 0.03 | 0.03 | 0.04 | 0.27 | 0.04 | -15.2% |
| Purchases from Combined Heat and Power 8/ | 13.53 | 13.95 | 14.41 | 14.90 | 15.42 | 16.02 | 16.70 | 17.44 | 18.17 | 19.03 | 19.85 | 20.84 | 21.70 | 5.0% |
| Electric Power Sector Generation for Customers | 302.83 | 313.14 | 317.21 | 324.05 | 327.46 | 332.31 | 336.61 | 340.86 | 344.61 | 348.39 | 354.34 | 360.84 | 366.21 | 2.1% |
| Total Net Energy for Load | 318.16 | 328.57 | 333.67 | 340.58 | 344.57 | 350.08 | 355.15 | 360.16 | 364.59 | 369.26 | 375.64 | 382.06 | 389.33 | 2.2% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 116.95 | 119.11 | 119.11 | 120.64 | 120.64 | 120.64 | 120.64 | 120.64 | 120.64 | 120.64 | 120.64 | 120.64 | 122.95 | 0.8% |
| Petroleum | 0.17 | 0.11 | 0.06 | 0.10 | 0.12 | 0.03 | 0.03 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.18 | -10.9% |
| Natural Gas | 185.56 | 189.44 | 194.26 | 198.46 | 202.39 | 207.37 | 212.43 | 217.10 | 221.05 | 225.44 | 230.77 | 237.21 | 239.39 | 3.1% |
| Nuclear | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 0.2% |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 7.59 | 7.64 | 7.68 | 7.73 | 7.78 | 7.83 | 7.87 | 7.92 | 7.94 | 7.94 | 7.95 | 7.96 | 7.96 | 7.4% |
| Total Generation | 350.76 | 356.78 | 361.60 | 367.43 | 371.42 | 376.36 | 381.47 | 386.33 | 390.30 | 394.70 | 400.03 | 406.49 | 410.97 | 1.9% |
| Sales to Customers | 343.30 | 349.32 | 354.14 | 359.97 | 363.96 | 368.89 | 374.01 | 378.87 | 382.84 | 387.24 | 392.57 | 399.02 | 403.51 | 1.9% |
| Generation for Own Use | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 7.46 | 2.3% |
| Distributed Generation 5/ | 0.20 | 0.23 | 0.25 | 0.28 | 0.31 | 0.34 | 0.37 | 0.39 | 0.42 | 0.45 | 0.47 | 0.50 | 0.52 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 0.0% |
| Petroleum | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.5% |
| Natural Gas | 44.27 | 45.24 | 46.39 | 47.66 | 49.00 | 50.56 | 52.28 | 54.32 | 56.32 | 58.65 | 60.87 | 63.47 | 65.78 | 3.4% |
| Other Gaseous Fuels | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 1.4% |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.0% |
| Total | 48.03 | 49.01 | 50.15 | 51.43 | 52.76 | 54.32 | 56.05 | 58.09 | 60.09 | 62.42 | 64.64 | 67.25 | 69.56 | 3.1% |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Sales to Utilities | 13.53 | 13.95 | 14.41 | 14.90 | 15.42 | 16.02 | 16.70 | 17.44 | 18.17 | 19.03 | 19.85 | 20.84 | 21.70 | 5.0% |
| Generation for Own Use | 34.50 | 35.06 | 35.75 | 36.52 | 37.34 | 38.30 | 39.35 | 40.64 | 41.92 | 43.39 | 44.79 | 46.41 | 47.86 | 2.5% |

**Table 61. Electric Power Projections for EMM Region**
**Electric Reliability Council of Texas**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 7.4 | 7.0 | 7.1 | 7.1 | 7.1 | 7.1 | 7.2 | 7.4 | 7.6 | 7.8 | 7.7 | 7.8 | 7.6 | -0.3% |
| Commercial | 6.5 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.4 | 6.7 | 6.9 | 7.2 | 7.2 | 7.4 | 7.2 | -0.3% |
| Industrial | 4.5 | 4.2 | 4.3 | 4.3 | 4.4 | 4.3 | 4.5 | 4.7 | 4.9 | 5.1 | 5.1 | 5.2 | 5.1 | 0.4% |
| Transportation | 6.2 | 5.9 | 6.0 | 5.9 | 6.0 | 5.9 | 6.0 | 6.2 | 6.3 | 6.5 | 6.4 | 6.5 | 6.3 | -0.5% |
| All Sectors Average | 6.3 | 6.0 | 6.1 | 6.0 | 6.1 | 6.0 | 6.2 | 6.4 | 6.6 | 6.8 | 6.8 | 6.9 | 6.8 | -0.1% |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 4.1 | 3.8 | 3.9 | 3.8 | 3.9 | 3.9 | 4.1 | 4.4 | 4.6 | 4.9 | 4.8 | 5.0 | 4.8 | 0.2% |
| Transmission | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5% |
| Distribution | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | -1.4% |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 1.22 | 1.24 | 1.24 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.27 | 0.6% |
| Natural Gas | 1.42 | 1.41 | 1.45 | 1.46 | 1.50 | 1.53 | 1.57 | 1.60 | 1.63 | 1.67 | 1.69 | 1.74 | 1.74 | 1.6% |
| Oil | 0.40 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.38 | 0.38 | 0.39 | 0.39 | 0.39 | 0.39 | 0.38 | 0.3% |
| Total | 3.04 | 3.01 | 3.06 | 3.08 | 3.12 | 3.15 | 3.20 | 3.24 | 3.27 | 3.31 | 3.33 | 3.38 | 3.40 | 1.0% |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 57.70 | 58.04 | 58.65 | 59.35 | 59.86 | 60.38 | 61.03 | 61.64 | 62.11 | 62.63 | 63.09 | 63.86 | 64.45 | 0.8% |
| Carbon Dioxide | 211.56 | 212.83 | 215.05 | 217.60 | 219.48 | 221.39 | 223.77 | 226.02 | 227.73 | 229.64 | 231.33 | 234.15 | 236.32 | 0.8% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.21 | 0.20 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | -2.2% |

**Table 61. Electric Power Projections for EMM Region**
**Electric Reliability Council of Texas**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 62. Electric Power Projections for EMM Region**
**Mid-Atlantic Area Council**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 20.09 | 19.89 | 19.89 | 19.89 | 19.89 | 19.85 | 20.18 | 20.18 | 20.18 | 20.18 | 20.18 | 20.18 | 20.18 |
| Other Fossil Steam 2/ | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.38 |
| Combined Cycle | 4.55 | 5.78 | 7.74 | 9.76 | 10.48 | 10.48 | 10.48 | 10.48 | 10.84 | 11.09 | 11.85 | 12.10 | 12.61 |
| Combustion Turbine/Diesel | 8.70 | 9.87 | 10.51 | 11.09 | 11.09 | 11.09 | 11.09 | 11.65 | 11.71 | 11.71 | 11.71 | 11.71 | 11.71 |
| Nuclear Power | 12.99 | 12.99 | 13.03 | 13.07 | 13.31 | 13.31 | 13.36 | 13.36 | 13.42 | 13.42 | 13.42 | 13.42 | 13.42 |
| Pumped Storage/Other 3/ | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.06 | 0.09 | 0.11 | 0.13 | 0.16 |
| Renewable Sources 4/ | 1.84 | 1.88 | 1.89 | 1.89 | 1.89 | 1.92 | 1.96 | 1.99 | 2.02 | 2.04 | 2.07 | 2.10 | 2.12 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.09 | 0.15 | 0.21 | 0.27 | 0.34 | 0.41 | 0.47 |
| Total Capacity | 57.90 | 60.14 | 62.78 | 65.42 | 66.39 | 66.44 | 66.91 | 67.58 | 68.16 | 68.52 | 69.40 | 69.77 | 70.36 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 1.96 | 3.98 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.64 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.06 | 0.09 | 0.11 | 0.13 | 0.16 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.07 | 0.10 | 0.13 | 0.16 | 0.19 | 0.21 | 0.24 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 2.60 | 5.21 | 5.93 | 5.98 | 6.03 | 6.07 | 6.12 | 6.17 | 6.22 | 6.27 | 6.32 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.61 | 1.37 | 1.61 | 2.12 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.56 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.09 | 0.15 | 0.21 | 0.27 | 0.34 | 0.41 | 0.47 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.42 | 1.04 | 1.52 | 1.83 | 2.66 | 2.97 | 3.55 |
| Cumulative Total Additions | 0.00 | 0.00 | 2.60 | 5.21 | 5.93 | 6.03 | 6.45 | 7.11 | 7.64 | 8.00 | 8.88 | 9.25 | 9.87 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.08 |
| Combined Heat and Power 8/ | | | | | | | | | | | | | |

**Table 62. Electric Power Projections for EMM Region**
**Mid-Atlantic Area Council**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | |
| Coal | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| Petroleum | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Natural Gas | 0.54 | 0.55 | 0.57 | 0.58 | 0.59 | 0.61 | 0.63 | 0.65 | 0.66 | 0.68 | 0.70 | 0.71 | 0.72 |
| Other Gaseous Fuels | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Total | 0.88 | 0.89 | 0.91 | 0.92 | 0.93 | 0.95 | 0.97 | 0.99 | 1.00 | 1.02 | 1.04 | 1.05 | 1.06 |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 82.96 | 83.43 | 87.72 | 90.98 | 92.77 | 94.11 | 95.67 | 97.41 | 99.15 | 100.03 | 100.78 | 101.32 | 102.03 |
| Commercial/Other | 104.05 | 108.25 | 114.53 | 115.03 | 118.11 | 120.92 | 123.85 | 126.93 | 129.75 | 132.49 | 134.99 | 137.66 | 140.10 |
| Industrial | 54.08 | 50.05 | 47.67 | 50.03 | 50.67 | 51.34 | 52.06 | 53.77 | 55.14 | 56.49 | 57.96 | 59.43 | 60.66 |
| Transportation | 1.81 | 1.84 | 1.93 | 1.97 | 2.01 | 2.05 | 2.09 | 2.14 | 2.18 | 2.23 | 2.29 | 2.34 | 2.40 |
| Total Sales | 242.90 | 243.58 | 251.85 | 258.01 | 263.56 | 268.42 | 273.68 | 280.25 | 286.22 | 291.25 | 296.02 | 300.76 | 305.19 |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross Interregional Electricity Imports | 26.14 | 20.48 | 34.46 | 36.99 | 37.29 | 36.02 | 33.25 | 32.84 | 32.75 | 33.34 | 33.66 | 34.05 | 33.03 |
| Gross Interregional Electricity Exports | 20.35 | 16.78 | 20.98 | 22.94 | 23.81 | 18.26 | 19.51 | 16.43 | 17.62 | 14.60 | 15.06 | 10.98 | 11.34 |
| Purchases from Combined Heat and Power 8/ | 1.29 | 1.19 | 1.41 | 1.49 | 1.56 | 1.63 | 1.71 | 1.79 | 1.87 | 1.96 | 2.04 | 2.12 | 2.19 |
| Electric Power Sector Generation for Customers | 234.03 | 229.60 | 239.24 | 245.16 | 248.69 | 249.60 | 258.70 | 262.60 | 269.50 | 271.27 | 276.10 | 276.68 | 282.14 |
| Total Net Energy for Load | 241.11 | 234.49 | 254.13 | 260.70 | 263.73 | 268.99 | 274.16 | 280.81 | 286.50 | 291.97 | 296.75 | 301.87 | 306.02 |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 118.67 | 112.31 | 117.52 | 120.48 | 121.36 | 124.45 | 133.08 | 137.92 | 139.19 | 140.15 | 140.92 | 140.14 | 141.63 |
| Petroleum | 6.98 | 8.31 | 1.97 | 1.99 | 1.76 | 1.70 | 1.84 | 1.91 | 2.13 | 2.20 | 2.49 | 2.47 | 2.69 |
| Natural Gas | 19.46 | 19.65 | 25.38 | 27.13 | 30.25 | 27.07 | 26.58 | 25.30 | 30.15 | 30.42 | 34.09 | 34.60 | 38.48 |
| Nuclear | 104.08 | 104.68 | 106.11 | 106.62 | 108.52 | 108.62 | 109.18 | 109.25 | 109.74 | 109.74 | 109.74 | 109.74 | 109.74 |
| Pumped Storage/Other 3/ | -0.48 | -0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 7.69 | 6.64 | 8.75 | 9.31 | 9.98 | 10.82 | 11.18 | 11.58 | 12.09 | 12.29 | 12.46 | 13.02 | 13.15 |
| Total Generation | 256.41 | 251.25 | 259.74 | 265.52 | 271.87 | 272.67 | 281.87 | 285.96 | 293.31 | 294.81 | 299.70 | 299.97 | 305.70 |
| Sales to Customers | 253.31 | 247.90 | 255.64 | 261.41 | 267.70 | 268.44 | 277.59 | 281.63 | 289.00 | 290.49 | 295.39 | 295.66 | 301.41 |
| Generation for Own Use | 3.10 | 3.35 | 4.09 | 4.11 | 4.17 | 4.23 | 4.28 | 4.33 | 4.31 | 4.31 | 4.31 | 4.31 | 4.30 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.04 | 0.07 | 0.09 | 0.12 | 0.15 | 0.18 | 0.21 |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 0.92 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Petroleum | 0.60 | 0.59 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 |
| Natural Gas | 3.28 | 3.27 | 3.53 | 3.64 | 3.75 | 3.89 | 4.02 | 4.16 | 4.29 | 4.43 | 4.54 | 4.66 | 4.76 |
| Other Gaseous Fuels | 0.64 | 0.60 | 0.62 | 0.62 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Renewable Sources 4/ | 1.30 | 1.30 | 1.28 | 1.34 | 1.38 | 1.42 | 1.44 | 1.48 | 1.52 | 1.57 | 1.64 | 1.70 | 1.75 |
| Other | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 |
| Total | 7.08 | 7.02 | 7.35 | 7.52 | 7.79 | 7.96 | 8.12 | 8.30 | 8.47 | 8.66 | 8.84 | 9.01 | 9.16 |
| Other End Use Generators | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.21 |
| Sales to Utilities | 1.29 | 1.19 | 1.41 | 1.49 | 1.56 | 1.63 | 1.71 | 1.79 | 1.87 | 1.96 | 2.04 | 2.12 | 2.19 |
| Generation for Own Use | 5.97 | 6.01 | 6.12 | 6.21 | 6.41 | 6.51 | 6.60 | 6.70 | 6.79 | 6.90 | 7.01 | 7.10 | 7.18 |

**Table 62. Electric Power Projections for EMM Region**
**Mid-Atlantic Area Council**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 9.6 | 9.2 | 8.6 | 8.1 | 7.8 | 7.8 | 7.5 | 7.2 | 7.3 | 7.5 | 7.7 | 8.0 | 8.2 |
| Commercial | 8.3 | 7.8 | 7.3 | 6.8 | 6.4 | 6.2 | 5.9 | 5.7 | 5.8 | 6.0 | 6.2 | 6.5 | 6.7 |
| Industrial | 6.7 | 6.4 | 5.9 | 5.7 | 5.5 | 5.4 | 5.3 | 5.2 | 5.3 | 5.3 | 5.2 | 5.2 | 5.3 |
| Transportation | 8.4 | 8.0 | 7.3 | 6.9 | 6.8 | 6.5 | 6.2 | 6.0 | 6.1 | 6.2 | 6.4 | 6.5 | 6.6 |
| All Sectors Average | 8.4 | 8.0 | 7.5 | 7.0 | 6.7 | 6.6 | 6.3 | 6.1 | 6.2 | 6.4 | 6.6 | 6.7 | 6.9 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 5.4 | 5.2 | 4.7 | 4.3 | 3.9 | 3.8 | 3.5 | 3.3 | 3.4 | 3.5 | 3.7 | 3.9 | 4.0 |
| Transmission | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Distribution | 2.5 | 2.4 | 2.3 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 1.30 | 1.26 | 1.17 | 1.20 | 1.21 | 1.24 | 1.32 | 1.37 | 1.39 | 1.40 | 1.41 | 1.40 | 1.41 |
| Natural Gas | 0.21 | 0.20 | 0.23 | 0.25 | 0.27 | 0.25 | 0.24 | 0.23 | 0.27 | 0.27 | 0.29 | 0.30 | 0.32 |
| Oil | 0.21 | 0.21 | 0.11 | 0.10 | 0.12 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.12 | 0.13 |
| Total | 1.72 | 1.67 | 1.51 | 1.55 | 1.60 | 1.60 | 1.68 | 1.72 | 1.78 | 1.79 | 1.82 | 1.81 | 1.86 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 38.85 | 39.09 | 36.67 | 37.70 | 38.26 | 38.68 | 41.02 | 42.25 | 43.31 | 43.62 | 44.29 | 44.10 | 44.99 |
| Carbon Dioxide | 142.44 | 143.34 | 134.47 | 138.23 | 140.27 | 141.83 | 150.40 | 154.93 | 158.81 | 159.94 | 162.41 | 161.69 | 164.97 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.26 | 0.24 | 0.23 | 0.24 | 0.19 | 0.20 | 0.21 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.21 |

**Table 62. Electric Power Projections for EMM Region**
**Mid-Atlantic Area Council**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 20.18 | 20.18 | 20.18 | 20.18 | 20.18 | 20.59 | 20.59 | 20.59 | 20.59 | 20.59 | 20.59 | 21.23 | 21.23 | 0.3% |
| Other Fossil Steam 2/ | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.18 | 8.18 | 8.18 | 8.18 | 8.18 | -0.1% |
| Combined Cycle | 12.64 | 13.38 | 13.39 | 14.48 | 14.51 | 15.50 | 15.50 | 16.65 | 16.65 | 18.09 | 18.09 | 19.49 | 19.49 | 5.2% |
| Combustion Turbine/Diesel | 11.71 | 11.71 | 11.71 | 11.71 | 11.71 | 11.83 | 11.83 | 12.06 | 12.06 | 12.33 | 12.33 | 12.51 | 12.51 | 1.0% |
| Nuclear Power | 13.42 | 13.42 | 13.42 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 0.2% |
| Pumped Storage/Other 3/ | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | N/A |
| Fuel Cells | 0.17 | 0.18 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | N/A |
| Renewable Sources 4/ | 2.15 | 2.18 | 2.20 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.27 | 2.27 | 2.35 | 2.35 | 0.9% |
| Distributed Generation 5/ | 0.53 | 0.59 | 0.76 | 0.91 | 1.06 | 1.20 | 1.24 | 1.36 | 1.40 | 1.53 | 1.58 | 1.72 | 1.77 | N/A |
| Total Capacity | 70.49 | 71.33 | 71.54 | 72.93 | 73.11 | 74.77 | 74.81 | 76.32 | 76.16 | 78.03 | 78.08 | 80.52 | 80.57 | 1.2% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | 4.70 | N/A |
| Combustion Turbine/Diesel | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.17 | 0.18 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | N/A |
| Renewable Sources 4/ | 0.27 | 0.29 | 0.32 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 6.36 | 6.40 | 6.43 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | 6.47 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 1.38 | 1.38 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 2.16 | 2.90 | 2.91 | 4.00 | 4.02 | 5.02 | 5.02 | 6.17 | 6.17 | 7.60 | 7.60 | 9.00 | 9.00 | N/A |
| Combustion Turbine/Diesel | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.74 | 0.74 | 0.97 | 0.97 | 1.24 | 1.24 | 1.42 | 1.42 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.12 | 0.12 | N/A |
| Distributed Generation 5/ | 0.53 | 0.59 | 0.76 | 0.91 | 1.06 | 1.20 | 1.24 | 1.36 | 1.40 | 1.53 | 1.58 | 1.72 | 1.77 | N/A |
| Total Unplanned Additions | 3.64 | 4.44 | 4.62 | 5.86 | 6.04 | 7.70 | 7.74 | 9.24 | 9.28 | 11.16 | 11.21 | 13.65 | 13.70 | N/A |
| Cumulative Total Additions | 10.00 | 10.84 | 11.05 | 12.33 | 12.51 | 14.17 | 14.21 | 15.71 | 15.75 | 17.63 | 17.68 | 20.12 | 20.17 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | N/A |
| Other Fossil Steam 3/ | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | N/A |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | N/A |
| Combined Heat and Power 8/ | | | | | | | | | | | | | | |

**Table 62. Electric Power Projections for EMM Region**
**Mid-Atlantic Area Council**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | | |
| Coal | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.0% |
| Petroleum | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.6% |
| Natural Gas | 0.74 | 0.75 | 0.77 | 0.79 | 0.81 | 0.83 | 0.85 | 0.88 | 0.91 | 0.95 | 0.98 | 1.02 | 1.05 | 2.7% |
| Other Gaseous Fuels | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.3% |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.7% |
| Other | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | N/A |
| Total | 1.08 | 1.09 | 1.11 | 1.13 | 1.15 | 1.17 | 1.20 | 1.22 | 1.25 | 1.29 | 1.32 | 1.36 | 1.39 | 1.9% |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.5% |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 102.26 | 102.85 | 103.55 | 104.47 | 104.97 | 105.80 | 106.71 | 107.88 | 108.61 | 109.67 | 110.77 | 112.19 | 112.98 | 1.3% |
| Commercial/Other | 142.54 | 144.86 | 146.80 | 148.61 | 150.37 | 152.19 | 154.21 | 156.41 | 158.91 | 161.47 | 163.95 | 166.36 | 168.37 | 1.9% |
| Industrial | 61.67 | 62.70 | 63.29 | 63.83 | 64.56 | 65.25 | 66.01 | 66.60 | 67.19 | 68.03 | 68.85 | 69.74 | 70.43 | 1.4% |
| Transportation | 2.45 | 2.51 | 2.57 | 2.63 | 2.69 | 2.76 | 2.83 | 2.91 | 2.99 | 3.07 | 3.15 | 3.23 | 3.30 | 2.5% |
| Total Sales | 308.92 | 312.92 | 316.20 | 319.54 | 322.59 | 325.99 | 329.76 | 333.80 | 337.71 | 342.24 | 346.71 | 351.52 | 355.08 | 1.6% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross Interregional Electricity Imports | 33.30 | 33.75 | 36.46 | 34.60 | 37.26 | 35.81 | 36.14 | 33.18 | 35.24 | 33.78 | 36.71 | 33.88 | 35.05 | 2.3% |
| Gross Interregional Electricity Exports | 9.39 | 10.12 | 11.67 | 13.16 | 13.78 | 16.90 | 13.06 | 11.55 | 8.29 | 8.22 | 6.88 | 7.00 | 7.71 | -3.2% |
| Purchases from Combined Heat and Power 8/ | 2.26 | 2.33 | 2.40 | 2.47 | 2.54 | 2.63 | 2.73 | 2.83 | 2.93 | 3.06 | 3.18 | 3.32 | 3.44 | 4.5% |
| Electric Power Sector Generation for Customers | 283.83 | 288.04 | 290.07 | 296.70 | 297.99 | 305.95 | 305.81 | 311.53 | 310.30 | 316.39 | 316.84 | 324.97 | 328.08 | 1.5% |
| Total Net Energy for Load | 310.00 | 314.00 | 317.25 | 320.60 | 324.01 | 327.49 | 331.61 | 336.00 | 340.19 | 345.01 | 349.85 | 355.17 | 358.87 | 1.8% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 142.29 | 142.91 | 142.98 | 143.45 | 143.86 | 147.47 | 147.48 | 147.86 | 147.87 | 148.15 | 148.09 | 152.48 | 152.28 | 1.3% |
| Petroleum | 2.93 | 2.72 | 2.78 | 2.94 | 2.89 | 2.83 | 2.74 | 2.93 | 2.93 | 2.86 | 2.84 | 2.86 | 2.90 | -4.3% |
| Natural Gas | 39.03 | 42.78 | 44.55 | 49.74 | 50.65 | 55.21 | 55.08 | 60.05 | 58.82 | 64.51 | 64.80 | 67.66 | 70.69 | 5.5% |
| Nuclear | 109.74 | 109.74 | 109.74 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 0.2% |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 13.43 | 13.46 | 13.57 | 13.50 | 13.50 | 13.38 | 13.39 | 13.38 | 13.40 | 13.46 | 13.53 | 13.87 | 13.94 | 3.1% |
| Total Generation | 307.42 | 311.62 | 313.62 | 320.32 | 321.59 | 329.59 | 329.38 | 334.92 | 333.72 | 339.69 | 339.95 | 347.56 | 350.51 | 1.4% |
| Sales to Customers | 303.12 | 307.32 | 309.33 | 316.02 | 317.30 | 325.29 | 325.08 | 330.62 | 329.42 | 335.39 | 335.66 | 343.26 | 346.21 | 1.4% |
| Generation for Own Use | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 1.0% |
| Distributed Generation 5/ | 0.23 | 0.26 | 0.33 | 0.40 | 0.46 | 0.52 | 0.54 | 0.60 | 0.61 | 0.67 | 0.69 | 0.75 | 0.78 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.0% |
| Petroleum | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.65 | 0.65 | 0.65 | 0.65 | 0.66 | 0.66 | 0.5% |
| Natural Gas | 4.86 | 4.97 | 5.10 | 5.24 | 5.38 | 5.55 | 5.74 | 5.97 | 6.19 | 6.44 | 6.69 | 6.97 | 7.23 | 3.4% |
| Other Gaseous Fuels | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.76 | 0.77 | 0.78 | 0.79 | 0.80 | 0.82 | 0.83 | 1.4% |
| Renewable Sources 4/ | 1.79 | 1.84 | 1.88 | 1.92 | 1.96 | 2.01 | 2.05 | 2.10 | 2.14 | 2.18 | 2.23 | 2.28 | 2.33 | 2.5% |
| Other | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.0% |
| Total | 9.31 | 9.47 | 9.64 | 9.82 | 10.00 | 10.22 | 10.47 | 10.75 | 11.02 | 11.33 | 11.64 | 12.00 | 12.31 | 2.4% |
| Other End Use Generators | 0.21 | 0.21 | 0.22 | 0.22 | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 | 0.26 | 1.6% |
| Sales to Utilities | 2.26 | 2.33 | 2.40 | 2.47 | 2.54 | 2.63 | 2.73 | 2.83 | 2.93 | 3.06 | 3.18 | 3.32 | 3.44 | 4.5% |
| Generation for Own Use | 7.27 | 7.35 | 7.46 | 7.57 | 7.68 | 7.82 | 7.97 | 8.15 | 8.32 | 8.52 | 8.71 | 8.93 | 9.13 | 1.8% |

**Table 62. Electric Power Projections for EMM Region**
**Mid-Atlantic Area Council**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 8.3 | 8.4 | 8.5 | 8.5 | 8.6 | 8.5 | 8.6 | 8.6 | 8.8 | 8.7 | 8.9 | 8.7 | 8.9 | -0.1% |
| Commercial | 7.0 | 7.1 | 7.3 | 7.2 | 7.4 | 7.2 | 7.4 | 7.4 | 7.7 | 7.5 | 7.9 | 7.6 | 7.8 | 0.0% |
| Industrial | 5.4 | 5.5 | 5.6 | 5.6 | 5.7 | 5.5 | 5.7 | 5.7 | 5.9 | 5.8 | 6.0 | 5.9 | 6.0 | -0.2% |
| Transportation | 6.8 | 6.8 | 6.9 | 6.8 | 6.8 | 6.7 | 6.8 | 6.7 | 6.8 | 6.7 | 6.8 | 6.6 | 6.7 | -0.7% |
| All Sectors Average | 7.1 | 7.2 | 7.4 | 7.3 | 7.4 | 7.3 | 7.5 | 7.4 | 7.7 | 7.5 | 7.8 | 7.6 | 7.8 | -0.1% |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 4.2 | 4.3 | 4.5 | 4.4 | 4.5 | 4.3 | 4.5 | 4.5 | 4.8 | 4.6 | 4.9 | 4.6 | 4.9 | -0.3% |
| Transmission | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.2% |
| Distribution | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 0.2% |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 1.42 | 1.43 | 1.43 | 1.43 | 1.44 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.51 | 1.50 | 0.7% |
| Natural Gas | 0.33 | 0.35 | 0.36 | 0.40 | 0.40 | 0.43 | 0.43 | 0.46 | 0.45 | 0.49 | 0.49 | 0.51 | 0.52 | 4.1% |
| Oil | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.12 | 0.12 | -2.2% |
| Total | 1.87 | 1.90 | 1.92 | 1.96 | 1.97 | 2.03 | 2.03 | 2.06 | 2.05 | 2.09 | 2.09 | 2.13 | 2.15 | 1.1% |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 45.32 | 45.86 | 46.09 | 46.81 | 47.03 | 48.33 | 48.30 | 48.98 | 48.86 | 49.49 | 49.49 | 50.67 | 50.91 | 1.1% |
| Carbon Dioxide | 166.16 | 168.15 | 169.01 | 171.63 | 172.44 | 177.23 | 177.12 | 179.58 | 179.14 | 181.45 | 181.46 | 185.78 | 186.67 | 1.1% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | -0.8% |

**Table 62. Electric Power Projections for EMM Region**
**Mid-Atlantic Area Council**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 63. Electric Power Projections for EMM Region**
**Mid-America Interconnected Network**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 28.09 | 28.09 | 28.09 | 28.09 | 28.09 | 27.77 | 27.75 | 27.68 | 27.68 | 27.68 | 27.68 | 27.68 | 27.68 |
| Other Fossil Steam 2/ | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | 2.75 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 |
| Combined Cycle | 0.37 | 1.22 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 |
| Combustion Turbine/Diesel | 8.01 | 11.46 | 14.41 | 14.39 | 14.39 | 14.69 | 13.95 | 13.15 | 13.15 | 13.83 | 13.93 | 14.22 | 14.22 |
| Nuclear Power | 13.23 | 13.23 | 13.59 | 13.67 | 13.74 | 13.74 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 |
| Pumped Storage/Other 3/ | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.92 | 1.03 | 1.05 | 1.12 | 1.12 | 1.18 | 1.18 | 1.18 | 1.19 | 1.21 | 1.22 | 1.24 | 1.24 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.05 | 0.10 | 0.15 | 0.20 | 0.37 | 0.42 |
| Total Capacity | 55.05 | 59.46 | 64.00 | 64.13 | 64.19 | 64.27 | 62.37 | 60.97 | 61.03 | 61.78 | 61.94 | 62.43 | 62.48 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.02 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.11 | 0.12 | 0.14 | 0.16 | 0.16 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 4.19 | 4.26 | 4.26 | 4.26 | 4.26 | 4.26 | 4.27 | 4.29 | 4.30 | 4.32 | 4.32 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.43 | 0.43 | 0.43 | 1.11 | 1.20 | 1.50 | 1.50 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.05 | 0.10 | 0.15 | 0.20 | 0.37 | 0.42 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.53 | 0.53 | 0.53 | 0.58 | 1.32 | 1.46 | 1.93 | 1.98 |
| Cumulative Total Additions | 0.00 | 0.00 | 4.19 | 4.26 | 4.26 | 4.79 | 4.79 | 4.79 | 4.85 | 5.60 | 5.77 | 6.25 | 6.30 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.32 | 0.33 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.24 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.01 | 0.03 | 0.03 | 0.16 | 0.89 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.01 | 0.03 | 0.03 | 0.48 | 2.47 | 3.87 | 3.87 | 3.87 | 3.87 | 3.87 | 3.87 |
| Combined Heat and Power 8/ | | | | | | | | | | | | | |

**Table 63. Electric Power Projections for EMM Region**
**Mid-America Interconnected Network**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | |
| Coal | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 | 0.25 |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.21 | 0.21 | 0.21 | 0.22 | 0.23 | 0.24 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.29 | 0.30 |
| Other | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 1.25 | 1.25 | 1.26 | 1.27 | 1.28 | 1.30 | 1.31 | 1.32 | 1.33 | 1.35 | 1.37 | 1.38 | 1.40 |
| Other End Use Generators | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 72.52 | 74.03 | 76.32 | 78.65 | 80.19 | 81.45 | 82.91 | 84.58 | 86.43 | 87.78 | 89.17 | 90.30 | 91.55 |
| Commercial/Other | 78.93 | 82.31 | 85.04 | 84.75 | 86.54 | 88.06 | 89.53 | 90.97 | 92.15 | 93.23 | 94.16 | 95.16 | 96.17 |
| Industrial | 79.60 | 73.42 | 67.82 | 71.47 | 73.47 | 74.56 | 76.35 | 78.60 | 80.89 | 82.71 | 84.90 | 86.92 | 88.60 |
| Transportation | 1.41 | 1.43 | 1.45 | 1.48 | 1.51 | 1.54 | 1.57 | 1.61 | 1.64 | 1.68 | 1.71 | 1.76 | 1.80 |
| Total Sales | 232.46 | 231.18 | 230.63 | 236.36 | 241.70 | 245.61 | 250.35 | 255.76 | 261.11 | 265.40 | 269.95 | 274.14 | 278.12 |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross Interregional Electricity Imports | 17.16 | 9.46 | 7.41 | 6.11 | 6.54 | 8.95 | 8.10 | 7.66 | 5.25 | 7.05 | 5.74 | 6.51 | 5.74 |
| Gross Interregional Electricity Exports | 40.88 | 38.19 | 35.82 | 35.72 | 33.98 | 34.87 | 35.05 | 35.99 | 36.58 | 37.48 | 34.30 | 32.51 | 30.56 |
| Purchases from Combined Heat and Power 8/ | 0.90 | 0.86 | 0.96 | 1.01 | 1.04 | 1.09 | 1.13 | 1.17 | 1.22 | 1.27 | 1.33 | 1.38 | 1.42 |
| Electric Power Sector Generation for Customers | 273.21 | 271.50 | 271.49 | 278.65 | 283.04 | 285.56 | 291.28 | 298.17 | 306.47 | 309.93 | 312.57 | 314.25 | 316.88 |
| Total Net Energy for Load | 250.39 | 243.63 | 244.04 | 250.03 | 256.64 | 260.72 | 265.46 | 271.02 | 276.35 | 280.77 | 285.34 | 289.62 | 293.47 |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 154.02 | 150.75 | 147.21 | 153.16 | 157.94 | 160.13 | 166.51 | 173.27 | 180.51 | 183.02 | 185.73 | 187.46 | 189.24 |
| Petroleum | 0.85 | 2.18 | 0.13 | 0.20 | 0.19 | 0.16 | 0.16 | 0.16 | 0.18 | 0.18 | 0.19 | 0.18 | 0.19 |
| Natural Gas | 5.71 | 5.33 | 12.06 | 12.03 | 10.03 | 9.65 | 8.16 | 8.22 | 9.22 | 9.93 | 9.93 | 9.71 | 10.70 |
| Nuclear | 110.94 | 112.25 | 111.67 | 112.46 | 113.02 | 113.06 | 113.80 | 113.83 | 113.86 | 113.88 | 113.88 | 113.88 | 113.88 |
| Pumped Storage/Other 3/ | -0.15 | -0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 3.88 | 3.91 | 4.50 | 4.84 | 4.95 | 5.63 | 5.71 | 5.77 | 5.91 | 6.11 | 6.17 | 6.29 | 6.31 |
| Total Generation | 275.25 | 274.21 | 275.57 | 282.70 | 286.13 | 288.62 | 294.33 | 301.25 | 309.68 | 313.11 | 315.91 | 317.52 | 320.32 |
| Sales to Customers | 274.60 | 272.75 | 273.42 | 280.55 | 283.99 | 286.48 | 292.19 | 299.11 | 307.54 | 310.97 | 313.77 | 315.38 | 318.18 |
| Generation for Own Use | 0.65 | 1.46 | 2.16 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.04 | 0.06 | 0.09 | 0.16 | 0.19 |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 3.66 | 3.65 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 |
| Petroleum | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Natural Gas | 1.35 | 1.34 | 1.45 | 1.49 | 1.54 | 1.59 | 1.65 | 1.71 | 1.76 | 1.82 | 1.86 | 1.91 | 1.95 |
| Other Gaseous Fuels | 0.11 | 0.10 | 0.10 | 0.10 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| Renewable Sources 4/ | 1.34 | 1.34 | 1.33 | 1.39 | 1.43 | 1.47 | 1.49 | 1.53 | 1.57 | 1.63 | 1.70 | 1.76 | 1.81 |
| Other | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 |
| Total | 7.00 | 6.98 | 7.09 | 7.20 | 7.31 | 7.40 | 7.48 | 7.58 | 7.67 | 7.78 | 7.90 | 8.00 | 8.10 |
| Other End Use Generators | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.21 | 0.22 | 0.22 | 0.22 |
| Sales to Utilities | 0.90 | 0.86 | 0.96 | 1.01 | 1.04 | 1.09 | 1.13 | 1.17 | 1.22 | 1.27 | 1.33 | 1.38 | 1.42 |
| Generation for Own Use | 6.28 | 6.30 | 6.32 | 6.38 | 6.45 | 6.50 | 6.55 | 6.60 | 6.66 | 6.72 | 6.79 | 6.85 | 6.90 |

**Table 63. Electric Power Projections for EMM Region**
**Mid-America Interconnected Network**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 8.1 | 7.9 | 7.5 | 7.5 | 7.6 | 7.6 | 7.5 | 7.4 | 7.4 | 7.3 | 7.4 | 7.4 | 7.5 |
| Commercial | 6.7 | 6.6 | 6.4 | 6.3 | 6.3 | 6.2 | 6.0 | 5.9 | 5.9 | 5.9 | 6.0 | 6.0 | 6.1 |
| Industrial | 4.4 | 4.3 | 4.0 | 4.2 | 4.2 | 4.2 | 4.1 | 4.0 | 4.1 | 4.1 | 4.1 | 4.0 | 4.0 |
| Transportation | 6.8 | 6.5 | 5.9 | 6.2 | 6.2 | 6.2 | 6.0 | 5.9 | 5.9 | 5.9 | 6.0 | 5.9 | 5.9 |
| All Sectors Average | 6.4 | 6.3 | 6.0 | 6.1 | 6.1 | 6.1 | 5.9 | 5.8 | 5.8 | 5.8 | 5.9 | 5.9 | 5.9 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 3.6 | 3.7 | 3.6 | 3.6 | 3.6 | 3.5 | 3.4 | 3.3 | 3.4 | 3.4 | 3.5 | 3.5 | 3.5 |
| Transmission | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 |
| Distribution | 2.3 | 2.2 | 2.1 | 2.1 | 2.1 | 2.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.0 | 2.0 | 2.0 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 1.66 | 1.63 | 1.55 | 1.62 | 1.67 | 1.68 | 1.75 | 1.82 | 1.90 | 1.93 | 1.97 | 1.99 | 2.01 |
| Natural Gas | 0.07 | 0.06 | 0.11 | 0.11 | 0.09 | 0.09 | 0.07 | 0.07 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 |
| Oil | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Total | 1.75 | 1.73 | 1.68 | 1.75 | 1.77 | 1.79 | 1.84 | 1.91 | 2.00 | 2.04 | 2.07 | 2.09 | 2.12 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 48.98 | 48.91 | 45.80 | 47.71 | 48.92 | 49.33 | 51.01 | 53.18 | 55.89 | 56.83 | 57.88 | 58.47 | 59.20 |
| Carbon Dioxide | 179.59 | 179.35 | 167.94 | 174.95 | 179.37 | 180.88 | 187.05 | 195.00 | 204.91 | 208.38 | 212.22 | 214.40 | 217.07 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.40 | 0.38 | 0.32 | 0.34 | 0.29 | 0.30 | 0.31 | 0.32 | 0.34 | 0.34 | 0.35 | 0.35 | 0.36 |

**Table 63. Electric Power Projections for EMM Region**
**Mid-America Interconnected Network**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ | | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 27.68 | 27.68 | 27.68 | 27.68 | 27.68 | 27.17 | 27.17 | 27.17 | 26.63 | 26.63 | 26.63 | 26.63 | 26.63 | -0.2% |
| Other Fossil Steam 2/ | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | -2.4% |
| Combined Cycle | 2.45 | 2.45 | 2.45 | 2.45 | 2.80 | 3.58 | 4.19 | 4.77 | 5.02 | 5.79 | 6.43 | 7.00 | 7.49 | 7.9% |
| Combustion Turbine/Diesel | 14.22 | 14.22 | 14.22 | 14.22 | 14.22 | 14.53 | 14.77 | 15.01 | 16.19 | 16.38 | 16.48 | 16.63 | 16.76 | 1.6% |
| Nuclear Power | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 0.2% |
| Pumped Storage/Other 3/ | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 0.8% |
| Distributed Generation 5/ | 0.57 | 0.62 | 0.66 | 0.70 | 0.82 | 0.95 | 1.07 | 1.20 | 1.33 | 1.47 | 1.61 | 1.75 | 1.89 | N/A |
| Total Capacity | 62.65 | 62.69 | 62.73 | 62.77 | 63.25 | 63.95 | 64.93 | 65.88 | 66.89 | 67.99 | 68.87 | 69.73 | 70.50 | 0.7% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | N/A |
| Combustion Turbine/Diesel | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 4.32 | 4.32 | 4.32 | 4.32 | 4.32 | 4.32 | 4.32 | 4.32 | 4.32 | 4.32 | 4.32 | 4.32 | 4.32 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.27 | 0.27 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 0.02 | 0.02 | 0.02 | 0.02 | 0.38 | 1.15 | 1.77 | 2.35 | 2.59 | 3.37 | 4.01 | 4.57 | 5.07 | N/A |
| Combustion Turbine/Diesel | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.80 | 2.04 | 2.28 | 3.47 | 3.65 | 3.75 | 3.90 | 4.03 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | N/A |
| Distributed Generation 5/ | 0.57 | 0.62 | 0.66 | 0.70 | 0.82 | 0.95 | 1.07 | 1.20 | 1.33 | 1.47 | 1.61 | 1.75 | 1.89 | N/A |
| Total Unplanned Additions | 2.15 | 2.20 | 2.24 | 2.28 | 2.75 | 4.23 | 5.21 | 6.15 | 7.93 | 9.03 | 9.91 | 10.77 | 11.54 | N/A |
| Cumulative Total Additions | 6.47 | 6.51 | 6.56 | 6.60 | 7.07 | 8.55 | 9.52 | 10.47 | 12.25 | 13.35 | 14.23 | 15.09 | 15.86 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 1.18 | 1.18 | 1.18 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | N/A |
| Other Fossil Steam 3/ | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | N/A |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combustion Turbine/Diesel | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 3.87 | 3.87 | 3.87 | 3.87 | 3.87 | 4.64 | 4.64 | 4.64 | 5.41 | 5.41 | 5.41 | 5.41 | 5.41 | N/A |
| Combined Heat and Power 8/ | | | | | | | | | | | | | | |

**Table 63. Electric Power Projections for EMM Region**
**Mid-America Interconnected Network**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | | |
| Coal | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.0% |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Natural Gas | 0.25 | 0.26 | 0.26 | 0.27 | 0.27 | 0.28 | 0.29 | 0.30 | 0.31 | 0.32 | 0.33 | 0.35 | 0.36 | 2.7% |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.31 | 0.32 | 0.33 | 0.33 | 0.34 | 0.35 | 0.36 | 0.37 | 0.37 | 0.38 | 0.39 | 0.40 | 0.41 | 2.7% |
| Other | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | N/A |
| Total | 1.41 | 1.42 | 1.44 | 1.45 | 1.47 | 1.48 | 1.50 | 1.52 | 1.53 | 1.55 | 1.57 | 1.60 | 1.62 | 1.1% |
| Other End Use Generators | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 2.5% |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 92.32 | 93.39 | 94.68 | 95.98 | 96.93 | 98.06 | 99.36 | 100.74 | 101.67 | 102.81 | 104.18 | 105.66 | 106.86 | 1.5% |
| Commercial/Other | 97.33 | 98.57 | 99.93 | 101.27 | 102.78 | 104.30 | 106.00 | 107.58 | 109.39 | 111.13 | 113.07 | 114.84 | 116.95 | 1.5% |
| Industrial | 89.97 | 91.37 | 92.44 | 93.29 | 94.45 | 95.60 | 97.06 | 98.13 | 99.26 | 100.74 | 102.23 | 103.90 | 105.38 | 1.5% |
| Transportation | 1.84 | 1.88 | 1.92 | 1.96 | 2.01 | 2.05 | 2.10 | 2.16 | 2.22 | 2.27 | 2.33 | 2.39 | 2.44 | 2.3% |
| Total Sales | 281.45 | 285.20 | 288.97 | 292.49 | 296.16 | 300.02 | 304.52 | 308.61 | 312.53 | 316.95 | 321.81 | 326.78 | 331.64 | 1.5% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross Interregional Electricity Imports | 5.76 | 6.25 | 7.17 | 6.97 | 6.85 | 7.09 | 7.07 | 7.51 | 9.79 | 9.50 | 11.54 | 13.03 | 16.82 | 2.4% |
| Gross Interregional Electricity Exports | 28.42 | 25.90 | 22.44 | 19.88 | 17.78 | 14.59 | 13.16 | 12.71 | 11.01 | 9.62 | 9.02 | 8.56 | 7.19 | -6.7% |
| Purchases from Combined Heat and Power 8/ | 1.46 | 1.50 | 1.54 | 1.58 | 1.62 | 1.67 | 1.72 | 1.77 | 1.82 | 1.88 | 1.93 | 2.00 | 2.06 | 3.7% |
| Electric Power Sector Generation for Customers | 318.11 | 318.89 | 318.35 | 319.65 | 320.93 | 321.39 | 324.65 | 328.05 | 328.37 | 331.74 | 334.07 | 337.33 | 337.09 | 0.9% |
| Total Net Energy for Load | 296.92 | 300.75 | 304.63 | 308.32 | 311.62 | 315.56 | 320.28 | 324.61 | 328.96 | 333.49 | 338.53 | 343.80 | 348.79 | 1.5% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 190.29 | 190.95 | 190.66 | 191.04 | 191.28 | 188.53 | 189.37 | 190.25 | 187.60 | 187.43 | 187.74 | 188.08 | 188.05 | 0.9% |
| Petroleum | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 0.21 | 0.22 | 0.25 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | -8.4% |
| Natural Gas | 10.75 | 10.84 | 10.59 | 11.55 | 12.60 | 15.76 | 18.16 | 20.62 | 23.63 | 27.21 | 29.21 | 32.06 | 32.06 | 7.8% |
| Nuclear | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 0.1% |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 6.31 | 6.32 | 6.29 | 6.29 | 6.28 | 6.28 | 6.26 | 6.20 | 6.18 | 6.15 | 6.15 | 6.12 | 6.08 | 1.9% |
| Total Generation | 321.43 | 322.20 | 321.63 | 322.98 | 324.25 | 324.67 | 327.89 | 331.21 | 331.55 | 334.94 | 337.24 | 340.41 | 340.34 | 0.9% |
| Sales to Customers | 319.29 | 320.05 | 319.49 | 320.83 | 322.10 | 322.52 | 325.74 | 329.07 | 329.40 | 332.80 | 335.10 | 338.27 | 338.20 | 0.9% |
| Generation for Own Use | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 1.6% |
| Distributed Generation 5/ | 0.25 | 0.27 | 0.29 | 0.31 | 0.36 | 0.41 | 0.47 | 0.52 | 0.58 | 0.64 | 0.70 | 0.77 | 0.83 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 3.66 | 0.0% |
| Petroleum | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.5% |
| Natural Gas | 1.99 | 2.04 | 2.09 | 2.15 | 2.21 | 2.28 | 2.36 | 2.45 | 2.54 | 2.64 | 2.74 | 2.86 | 2.96 | 3.4% |
| Other Gaseous Fuels | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 1.4% |
| Renewable Sources 4/ | 1.86 | 1.91 | 1.95 | 1.99 | 2.03 | 2.08 | 2.13 | 2.17 | 2.21 | 2.26 | 2.31 | 2.36 | 2.41 | 2.5% |
| Other | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 | 0.0% |
| Total | 8.19 | 8.28 | 8.38 | 8.48 | 8.58 | 8.69 | 8.82 | 8.96 | 9.09 | 9.25 | 9.40 | 9.57 | 9.73 | 1.4% |
| Other End Use Generators | 0.22 | 0.22 | 0.22 | 0.23 | 0.23 | 0.23 | 0.23 | 0.24 | 0.25 | 0.25 | 0.26 | 0.26 | 0.27 | 1.6% |
| Sales to Utilities | 1.46 | 1.50 | 1.54 | 1.58 | 1.62 | 1.67 | 1.72 | 1.77 | 1.82 | 1.88 | 1.93 | 2.00 | 2.06 | 3.7% |
| Generation for Own Use | 6.95 | 7.00 | 7.06 | 7.12 | 7.19 | 7.26 | 7.34 | 7.43 | 7.52 | 7.62 | 7.72 | 7.83 | 7.93 | 1.0% |

**Table 63. Electric Power Projections for EMM Region**
**Mid-America Interconnected Network**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.6 | 7.6 | 7.6 | -0.1% |
| Commercial | 6.1 | 6.1 | 6.2 | 6.3 | 6.3 | 6.3 | 6.4 | 6.4 | 6.4 | 6.4 | 6.5 | 6.5 | 6.6 | 0.0% |
| Industrial | 4.1 | 4.1 | 4.1 | 4.2 | 4.2 | 4.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.4 | 4.4 | 4.5 | 0.2% |
| Transportation | 5.9 | 5.9 | 5.8 | 5.9 | 5.8 | 5.8 | 5.7 | 5.7 | 5.7 | 5.6 | 5.7 | 5.6 | 5.6 | -0.6% |
| All Sectors Average | 5.9 | 5.9 | 5.9 | 6.0 | 6.0 | 6.0 | 6.0 | 6.1 | 6.1 | 6.1 | 6.2 | 6.2 | 6.2 | 0.0% |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 3.6 | 3.6 | 3.6 | 3.7 | 3.7 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 | 3.9 | 4.0 | 4.0 | 0.3% |
| Transmission | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | -0.1% |
| Distribution | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | -0.7% |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 2.02 | 2.03 | 2.02 | 2.03 | 2.03 | 2.00 | 2.01 | 2.02 | 1.99 | 1.98 | 1.99 | 1.99 | 1.99 | 0.8% |
| Natural Gas | 0.10 | 0.10 | 0.09 | 0.10 | 0.11 | 0.13 | 0.15 | 0.16 | 0.18 | 0.21 | 0.22 | 0.24 | 0.24 | 5.7% |
| Oil | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | -1.0% |
| Total | 2.14 | 2.15 | 2.14 | 2.15 | 2.16 | 2.15 | 2.17 | 2.20 | 2.19 | 2.21 | 2.23 | 2.25 | 2.25 | 1.1% |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 59.60 | 59.85 | 59.72 | 59.98 | 60.17 | 59.57 | 60.09 | 60.68 | 60.15 | 60.46 | 60.78 | 61.19 | 61.17 | 0.9% |
| Carbon Dioxide | 218.55 | 219.46 | 218.96 | 219.91 | 220.61 | 218.44 | 220.35 | 222.49 | 220.56 | 221.67 | 222.85 | 224.37 | 224.28 | 0.9% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.35 | 0.35 | 0.35 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | -0.4% |

**Table 63. Electric Power Projections for EMM Region**
**Mid-America Interconnected Network**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 64. Electric Power Projections for EMM Region**
**Mid-Continent Area Power Pool**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 20.37 | 20.38 | 20.30 | 20.30 | 20.30 | 20.30 | 20.27 | 20.55 | 20.55 | 21.00 | 21.85 | 22.57 | 22.57 |
| Other Fossil Steam 2/ | 0.58 | 0.57 | 0.56 | 0.56 | 0.56 | 0.56 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 |
| Combined Cycle | 0.39 | 1.28 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.57 | 1.72 |
| Combustion Turbine/Diesel | 5.42 | 6.58 | 6.72 | 7.09 | 7.09 | 7.09 | 7.01 | 7.01 | 7.30 | 7.57 | 7.57 | 7.52 | 7.52 |
| Nuclear Power | 3.78 | 3.78 | 3.87 | 3.87 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 3.95 | 4.08 | 4.34 | 4.51 | 4.58 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.05 | 0.09 | 0.12 | 0.16 | 0.20 |
| Total Capacity | 34.50 | 36.68 | 37.22 | 37.76 | 37.85 | 37.91 | 37.51 | 37.80 | 38.12 | 38.87 | 39.76 | 40.61 | 40.80 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.14 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.24 | 0.42 | 0.49 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 0.53 | 1.08 | 1.15 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.73 | 1.58 | 2.31 | 2.31 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.29 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.55 | 0.55 | 0.55 | 0.55 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.05 | 0.09 | 0.12 | 0.16 | 0.20 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.31 | 0.63 | 1.38 | 2.26 | 3.16 | 3.35 |
| Cumulative Total Additions | 0.00 | 0.00 | 0.53 | 1.08 | 1.15 | 1.21 | 1.21 | 1.51 | 1.83 | 2.57 | 3.46 | 4.35 | 4.54 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.08 | 0.08 | 0.08 | 0.08 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.12 | 0.12 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.08 | 0.08 | 0.08 | 0.08 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.52 | 0.52 |
| Combined Heat and Power 8/ | | | | | | | | | | | | | |

**Table 64. Electric Power Projections for EMM Region**
**Mid-Continent Area Power Pool**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | |
| Coal | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 |
| Other | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.83 | 0.84 | 0.84 | 0.85 | 0.85 | 0.86 | 0.86 | 0.87 | 0.88 | 0.89 | 0.90 | 0.91 | 0.91 |
| Other End Use Generators | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 50.02 | 50.91 | 53.94 | 55.84 | 56.80 | 57.55 | 58.52 | 59.64 | 60.92 | 61.74 | 62.66 | 63.47 | 64.53 |
| Commercial/Other | 41.79 | 43.40 | 45.92 | 46.36 | 47.42 | 48.36 | 49.29 | 50.24 | 51.11 | 51.88 | 52.63 | 53.42 | 54.40 |
| Industrial | 60.18 | 55.54 | 53.23 | 56.11 | 57.72 | 58.60 | 60.00 | 61.78 | 63.58 | 65.02 | 66.73 | 68.31 | 69.61 |
| Transportation | 0.87 | 0.89 | 0.94 | 0.96 | 0.98 | 1.00 | 1.02 | 1.04 | 1.07 | 1.09 | 1.12 | 1.15 | 1.18 |
| Total Sales | 152.87 | 150.74 | 154.02 | 159.26 | 162.92 | 165.51 | 168.84 | 172.70 | 176.67 | 179.73 | 183.13 | 186.35 | 189.71 |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 10.61 | 10.39 | 9.27 | 9.69 | 9.86 | 9.30 | 5.37 | 6.28 | 6.18 | 5.91 | 6.48 | 6.35 | 7.06 |
| Gross International Exports | 0.65 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross Interregional Electricity Imports | 6.72 | 3.72 | 2.58 | 2.62 | 2.28 | 2.18 | 2.33 | 2.16 | 2.28 | 2.48 | 2.12 | 1.84 | 1.97 |
| Gross Interregional Electricity Exports | 19.36 | 16.20 | 12.22 | 12.22 | 13.36 | 14.51 | 11.90 | 15.04 | 14.36 | 15.36 | 18.74 | 20.93 | 19.27 |
| Purchases from Combined Heat and Power 8/ | 0.62 | 0.60 | 0.64 | 0.68 | 0.71 | 0.74 | 0.76 | 0.79 | 0.82 | 0.86 | 0.90 | 0.94 | 0.97 |
| Electric Power Sector Generation for Customers | 164.11 | 159.65 | 166.89 | 171.95 | 177.17 | 181.62 | 186.16 | 192.53 | 196.00 | 200.17 | 206.81 | 212.59 | 213.52 |
| Total Net Energy for Load | 162.06 | 156.67 | 167.16 | 172.72 | 176.66 | 179.33 | 182.73 | 186.72 | 190.93 | 194.07 | 197.56 | 200.80 | 204.26 |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 121.97 | 122.43 | 118.63 | 122.20 | 127.22 | 131.49 | 135.83 | 142.30 | 144.71 | 148.71 | 155.41 | 160.88 | 161.16 |
| Petroleum | 0.71 | 0.82 | 0.18 | 0.23 | 0.19 | 0.19 | 0.20 | 0.21 | 0.25 | 0.30 | 0.31 | 0.29 | 0.31 |
| Natural Gas | 1.89 | 2.33 | 3.38 | 2.54 | 1.77 | 1.55 | 1.68 | 1.54 | 2.56 | 2.67 | 2.59 | 2.91 | 3.58 |
| Nuclear | 26.04 | 24.37 | 29.41 | 29.41 | 29.54 | 29.54 | 29.54 | 29.54 | 29.54 | 29.54 | 29.54 | 29.54 | 29.54 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 14.35 | 10.89 | 16.26 | 18.56 | 19.31 | 19.71 | 19.79 | 19.80 | 19.80 | 19.79 | 19.78 | 19.78 | 19.77 |
| Total Generation | 164.95 | 160.83 | 167.86 | 172.94 | 178.03 | 182.48 | 187.03 | 193.39 | 196.86 | 201.01 | 207.64 | 213.40 | 214.36 |
| Sales to Customers | 164.84 | 160.38 | 167.28 | 172.36 | 177.45 | 181.90 | 186.45 | 192.81 | 196.28 | 200.43 | 207.06 | 212.82 | 213.78 |
| Generation for Own Use | 0.11 | 0.46 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.05 | 0.07 | 0.09 |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 3.26 | 3.25 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 |
| Petroleum | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Natural Gas | 0.44 | 0.44 | 0.47 | 0.49 | 0.50 | 0.52 | 0.54 | 0.56 | 0.58 | 0.59 | 0.61 | 0.62 | 0.64 |
| Other Gaseous Fuels | 0.05 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Renewable Sources 4/ | 1.42 | 1.42 | 1.41 | 1.47 | 1.52 | 1.55 | 1.58 | 1.62 | 1.67 | 1.72 | 1.80 | 1.86 | 1.92 |
| Other | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Total | 5.36 | 5.34 | 5.38 | 5.45 | 5.53 | 5.58 | 5.63 | 5.69 | 5.75 | 5.83 | 5.91 | 5.99 | 6.06 |
| Other End Use Generators | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 | 0.23 |
| Sales to Utilities | 0.62 | 0.60 | 0.64 | 0.68 | 0.71 | 0.74 | 0.76 | 0.79 | 0.82 | 0.86 | 0.90 | 0.94 | 0.97 |
| Generation for Own Use | 4.93 | 4.93 | 4.93 | 4.97 | 5.02 | 5.05 | 5.07 | 5.11 | 5.14 | 5.19 | 5.24 | 5.28 | 5.32 |

**Table 64. Electric Power Projections for EMM Region**
**Mid-Continent Area Power Pool**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 7.6 | 7.1 | 7.0 | 6.9 | 6.9 | 7.0 | 6.8 | 6.7 | 6.6 | 6.7 | 6.8 | 6.7 | 6.7 |
| Commercial | 6.3 | 6.0 | 6.0 | 5.8 | 5.9 | 5.9 | 5.7 | 5.6 | 5.6 | 5.6 | 5.7 | 5.6 | 5.6 |
| Industrial | 4.3 | 4.0 | 3.9 | 3.9 | 4.0 | 4.0 | 3.9 | 3.9 | 3.8 | 3.9 | 3.9 | 3.9 | 3.9 |
| Transportation | 6.5 | 6.0 | 5.8 | 5.8 | 5.8 | 5.8 | 5.7 | 5.6 | 5.5 | 5.5 | 5.6 | 5.5 | 5.4 |
| All Sectors Average | 6.0 | 5.7 | 5.6 | 5.5 | 5.6 | 5.6 | 5.5 | 5.4 | 5.3 | 5.3 | 5.4 | 5.3 | 5.3 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 3.2 | 2.9 | 3.0 | 2.9 | 3.0 | 3.0 | 2.9 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.8 |
| Transmission | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Distribution | 2.1 | 2.0 | 2.0 | 1.9 | 1.9 | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 1.32 | 1.34 | 1.27 | 1.31 | 1.36 | 1.40 | 1.45 | 1.52 | 1.55 | 1.58 | 1.64 | 1.69 | 1.70 |
| Natural Gas | 0.02 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.03 | 0.03 |
| Oil | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 1.36 | 1.37 | 1.30 | 1.34 | 1.38 | 1.42 | 1.47 | 1.54 | 1.58 | 1.62 | 1.68 | 1.73 | 1.73 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 39.28 | 38.53 | 37.10 | 38.13 | 39.46 | 40.73 | 42.10 | 44.06 | 45.07 | 46.21 | 47.96 | 49.38 | 49.58 |
| Carbon Dioxide | 144.01 | 141.29 | 136.04 | 139.81 | 144.68 | 149.34 | 154.38 | 161.54 | 165.26 | 169.44 | 175.86 | 181.07 | 181.79 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.34 | 0.32 | 0.26 | 0.26 | 0.27 | 0.28 | 0.29 | 0.30 | 0.31 | 0.31 | 0.32 | 0.32 | 0.32 |

**Table 64. Electric Power Projections for EMM Region**
**Mid-Continent Area Power Pool**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 22.57 | 23.05 | 23.79 | 24.17 | 24.79 | 25.35 | 25.90 | 26.33 | 26.83 | 27.50 | 28.08 | 28.66 | 29.24 | 1.5% |
| Other Fossil Steam 2/ | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | -2.9% |
| Combined Cycle | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.2% |
| Combustion Turbine/Diesel | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.61 | 7.61 | 7.59 | 7.29 | 7.29 | 0.4% |
| Nuclear Power | 3.95 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 0.3% |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 0.5% |
| Distributed Generation 5/ | 0.23 | 0.26 | 0.30 | 0.33 | 0.36 | 0.39 | 0.42 | 0.45 | 0.48 | 0.52 | 0.55 | 0.58 | 0.61 | N/A |
| Total Capacity | 41.33 | 41.94 | 42.70 | 43.12 | 43.77 | 44.36 | 44.95 | 45.40 | 46.02 | 46.72 | 47.31 | 47.63 | 48.24 | 1.1% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | N/A |
| Combustion Turbine/Diesel | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 2.31 | 2.78 | 3.52 | 3.91 | 4.52 | 5.08 | 5.63 | 6.06 | 6.56 | 7.23 | 7.81 | 8.39 | 8.98 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | N/A |
| Combustion Turbine/Diesel | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Distributed Generation 5/ | 0.23 | 0.26 | 0.30 | 0.33 | 0.36 | 0.39 | 0.42 | 0.45 | 0.48 | 0.52 | 0.55 | 0.58 | 0.61 | N/A |
| Total Unplanned Additions | 3.80 | 4.31 | 5.08 | 5.50 | 6.15 | 6.74 | 7.32 | 7.78 | 8.40 | 9.10 | 9.71 | 10.32 | 10.94 | N/A |
| Cumulative Total Additions | 5.00 | 5.51 | 6.28 | 6.70 | 7.35 | 7.94 | 8.52 | 8.98 | 9.59 | 10.30 | 10.91 | 11.52 | 12.13 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | N/A |
| Other Fossil Steam 3/ | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | N/A |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combustion Turbine/Diesel | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.14 | 0.44 | 0.44 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.54 | 0.84 | 0.84 | N/A |
| Combined Heat and Power 8/ | | | | | | | | | | | | | | |

**Table 64. Electric Power Projections for EMM Region**
**Mid-Continent Area Power Pool**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | | |
| Coal | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.0% |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Natural Gas | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 2.7% |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.22 | 0.22 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 | 0.26 | 0.26 | 0.27 | 0.28 | 0.28 | 0.29 | 2.7% |
| Other | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.92 | 0.93 | 0.94 | 0.94 | 0.95 | 0.96 | 0.97 | 0.97 | 0.98 | 0.99 | 1.00 | 1.01 | 1.02 | 0.8% |
| Other End Use Generators | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 2.5% |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 65.22 | 66.10 | 67.06 | 68.11 | 68.80 | 69.71 | 70.68 | 71.83 | 72.54 | 73.48 | 74.45 | 75.66 | 76.56 | 1.7% |
| Commercial/Other | 55.42 | 56.48 | 57.54 | 58.60 | 59.66 | 60.73 | 61.80 | 62.80 | 63.74 | 64.62 | 65.39 | 66.05 | 66.70 | 1.8% |
| Industrial | 70.67 | 71.76 | 72.60 | 73.25 | 74.15 | 75.05 | 76.19 | 77.02 | 77.89 | 79.05 | 80.21 | 81.53 | 82.69 | 1.7% |
| Transportation | 1.20 | 1.23 | 1.26 | 1.29 | 1.32 | 1.36 | 1.39 | 1.43 | 1.47 | 1.51 | 1.55 | 1.59 | 1.63 | 2.6% |
| Total Sales | 192.50 | 195.58 | 198.46 | 201.25 | 203.94 | 206.85 | 210.07 | 213.08 | 215.65 | 218.66 | 221.61 | 224.83 | 227.58 | 1.7% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 6.82 | 6.74 | 6.52 | 6.56 | 6.32 | 5.68 | 5.15 | 5.01 | 4.90 | 4.15 | 3.79 | 4.02 | 3.72 | -4.2% |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross Interregional Electricity Imports | 2.08 | 1.77 | 1.42 | 1.32 | 1.21 | 1.06 | 0.87 | 0.93 | 0.75 | 0.67 | 0.68 | 0.56 | 0.62 | -7.2% |
| Gross Interregional Electricity Exports | 18.89 | 19.71 | 21.00 | 21.37 | 22.39 | 24.01 | 23.98 | 24.39 | 25.40 | 26.37 | 27.06 | 28.03 | 28.30 | 2.4% |
| Purchases from Combined Heat and Power 8/ | 1.01 | 1.04 | 1.06 | 1.09 | 1.11 | 1.14 | 1.17 | 1.20 | 1.23 | 1.26 | 1.30 | 1.34 | 1.37 | 3.5% |
| Electric Power Sector Generation for Customers | 216.34 | 220.61 | 225.36 | 228.72 | 233.17 | 238.54 | 242.68 | 246.30 | 250.31 | 255.27 | 259.41 | 263.67 | 267.20 | 2.2% |
| Total Net Energy for Load | 207.36 | 210.46 | 213.36 | 216.31 | 219.41 | 222.41 | 225.88 | 229.04 | 231.79 | 234.98 | 238.13 | 241.55 | 244.62 | 1.9% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 161.46 | 165.04 | 170.24 | 173.25 | 177.67 | 182.97 | 187.10 | 190.33 | 194.10 | 198.98 | 203.22 | 207.54 | 211.57 | 2.3% |
| Petroleum | 0.30 | 0.27 | 0.27 | 0.28 | 0.28 | 0.30 | 0.32 | 0.33 | 0.35 | 0.33 | 0.35 | 0.34 | 0.32 | -3.9% |
| Natural Gas | 4.83 | 4.69 | 4.18 | 4.48 | 4.40 | 4.49 | 4.38 | 4.76 | 4.93 | 5.04 | 4.90 | 4.84 | 4.23 | 2.5% |
| Nuclear | 30.76 | 31.61 | 31.66 | 31.71 | 31.76 | 31.82 | 31.87 | 31.92 | 31.94 | 31.94 | 31.94 | 31.94 | 31.94 | 1.1% |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 19.76 | 19.76 | 19.75 | 19.75 | 19.74 | 19.73 | 19.72 | 19.71 | 19.71 | 19.71 | 19.71 | 19.71 | 19.70 | 2.5% |
| Total Generation | 217.12 | 221.37 | 226.11 | 229.47 | 233.86 | 239.30 | 243.39 | 247.05 | 251.04 | 256.00 | 260.13 | 264.37 | 267.76 | 2.1% |
| Sales to Customers | 216.54 | 220.79 | 225.53 | 228.89 | 233.28 | 238.73 | 242.81 | 246.48 | 250.47 | 255.42 | 259.55 | 263.79 | 267.18 | 2.1% |
| Generation for Own Use | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 0.58 | 1.0% |
| Distributed Generation 5/ | 0.10 | 0.11 | 0.13 | 0.14 | 0.16 | 0.17 | 0.19 | 0.20 | 0.21 | 0.23 | 0.24 | 0.25 | 0.27 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 3.26 | 0.0% |
| Petroleum | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.5% |
| Natural Gas | 0.65 | 0.67 | 0.68 | 0.70 | 0.72 | 0.75 | 0.77 | 0.80 | 0.83 | 0.86 | 0.90 | 0.94 | 0.97 | 3.4% |
| Other Gaseous Fuels | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 1.4% |
| Renewable Sources 4/ | 1.97 | 2.02 | 2.07 | 2.11 | 2.15 | 2.20 | 2.25 | 2.30 | 2.34 | 2.39 | 2.44 | 2.50 | 2.55 | 2.5% |
| Other | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.0% |
| Total | 6.13 | 6.19 | 6.26 | 6.32 | 6.38 | 6.45 | 6.53 | 6.61 | 6.68 | 6.77 | 6.85 | 6.95 | 7.03 | 1.2% |
| Other End Use Generators | 0.23 | 0.23 | 0.24 | 0.24 | 0.24 | 0.25 | 0.25 | 0.25 | 0.26 | 0.27 | 0.27 | 0.28 | 0.28 | 1.6% |
| Sales to Utilities | 1.01 | 1.04 | 1.06 | 1.09 | 1.11 | 1.14 | 1.17 | 1.20 | 1.23 | 1.26 | 1.30 | 1.34 | 1.37 | 3.5% |
| Generation for Own Use | 5.35 | 5.39 | 5.43 | 5.47 | 5.51 | 5.56 | 5.61 | 5.66 | 5.71 | 5.77 | 5.83 | 5.89 | 5.95 | 0.8% |

**Table 64. Electric Power Projections for EMM Region**
**Mid-Continent Area Power Pool**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 6.6 | 6.6 | 6.6 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | -0.4% |
| Commercial | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.6 | 5.6 | -0.3% |
| Industrial | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 | 3.9 | -0.2% |
| Transportation | 5.3 | 5.3 | 5.2 | 5.2 | 5.2 | 5.1 | 5.1 | 5.0 | 5.0 | 4.9 | 4.9 | 4.9 | 4.9 | -0.9% |
| All Sectors Average | 5.3 | 5.3 | 5.3 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.3 | 5.3 | 5.3 | -0.3% |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 3.0 | 0.0% |
| Transmission | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | -0.3% |
| Distribution | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | -0.8% |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 1.70 | 1.73 | 1.78 | 1.80 | 1.84 | 1.89 | 1.93 | 1.96 | 1.99 | 2.03 | 2.07 | 2.10 | 2.14 | 2.0% |
| Natural Gas | 0.04 | 0.04 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 | 0.9% |
| Oil | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | -1.2% |
| Total | 1.75 | 1.78 | 1.82 | 1.84 | 1.88 | 1.94 | 1.97 | 2.00 | 2.04 | 2.08 | 2.11 | 2.15 | 2.18 | 1.9% |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 49.83 | 50.71 | 51.92 | 52.73 | 53.82 | 55.35 | 56.37 | 57.26 | 58.24 | 59.44 | 60.49 | 61.56 | 62.44 | 2.0% |
| Carbon Dioxide | 182.70 | 185.94 | 190.36 | 193.36 | 197.36 | 202.96 | 206.70 | 209.95 | 213.53 | 217.95 | 221.80 | 225.70 | 228.94 | 2.0% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.32 | 0.32 | 0.32 | 0.33 | 0.33 | 0.33 | 0.33 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.35 | 0.4% |

**Table 64. Electric Power Projections for EMM Region**
**Mid-Continent Area Power Pool**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 65. Electric Power Projections for EMM Region**
**Northeast Power Coordinating Council/New York**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 |
| Other Fossil Steam 2/ | 12.44 | 12.44 | 12.44 | 12.44 | 12.44 | 11.33 | 10.13 | 10.13 | 9.62 | 9.62 | 8.80 | 8.80 | 8.21 |
| Combined Cycle | 4.01 | 4.01 | 4.01 | 4.22 | 4.22 | 5.58 | 5.58 | 7.02 | 7.02 | 8.18 | 8.18 | 9.51 | 9.51 |
| Combustion Turbine/Diesel | 3.70 | 4.05 | 4.59 | 4.59 | 4.59 | 4.31 | 4.31 | 4.31 | 4.26 | 4.26 | 4.26 | 4.26 | 4.26 |
| Nuclear Power | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.06 | 5.06 | 5.06 | 5.06 | 5.06 | 5.06 |
| Pumped Storage/Other 3/ | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 4.60 | 4.70 | 4.86 | 5.25 | 5.32 | 5.48 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Capacity | 34.82 | 35.27 | 35.97 | 36.57 | 36.65 | 36.76 | 35.71 | 37.17 | 36.60 | 37.75 | 36.93 | 38.27 | 37.68 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.02 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 0.56 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.35 | 1.35 | 2.80 | 2.80 | 3.95 | 3.95 | 5.29 | 5.29 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.43 | 1.43 | 2.88 | 2.88 | 4.03 | 4.03 | 5.37 | 5.37 |
| Cumulative Total Additions | 0.00 | 0.00 | 0.56 | 1.09 | 1.09 | 2.52 | 2.52 | 3.97 | 3.97 | 5.12 | 5.12 | 6.46 | 6.46 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.11 | 2.31 | 2.31 | 2.82 | 2.82 | 3.65 | 3.65 | 4.23 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.28 | 0.28 | 0.28 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.39 | 2.59 | 2.59 | 3.15 | 3.15 | 3.98 | 3.98 | 4.56 |
| Combined Heat and Power 8/ | | | | | | | | | | | | | |

**Table 65. Electric Power Projections for EMM Region**
**Northeast Power Coordinating Council/New York**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | |
| Coal | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| Petroleum | 0.20 | 0.20 | 0.20 | 0.20 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| Natural Gas | 0.25 | 0.25 | 0.26 | 0.27 | 0.27 | 0.28 | 0.29 | 0.29 | 0.30 | 0.31 | 0.32 | 0.32 | 0.33 |
| Other Gaseous Fuels | 0.47 | 0.47 | 0.47 | 0.47 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 |
| Renewable Sources 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Other | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 1.14 | 1.14 | 1.15 | 1.16 | 1.20 | 1.20 | 1.21 | 1.22 | 1.23 | 1.24 | 1.25 | 1.25 | 1.26 |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 44.48 | 44.85 | 44.54 | 46.07 | 46.87 | 47.45 | 48.15 | 48.93 | 49.63 | 49.85 | 49.94 | 49.92 | 49.97 |
| Commercial/Other | 68.02 | 71.14 | 71.07 | 70.80 | 72.55 | 74.12 | 75.75 | 77.44 | 78.85 | 80.16 | 81.21 | 82.37 | 83.26 |
| Industrial | 26.89 | 24.91 | 22.46 | 23.56 | 23.82 | 24.15 | 24.46 | 25.30 | 25.92 | 26.56 | 27.23 | 27.93 | 28.48 |
| Transportation | 1.24 | 1.27 | 1.26 | 1.28 | 1.30 | 1.33 | 1.35 | 1.38 | 1.40 | 1.43 | 1.46 | 1.49 | 1.53 |
| Total Sales | 140.63 | 142.17 | 139.33 | 141.71 | 144.53 | 147.04 | 149.71 | 153.04 | 155.80 | 158.00 | 159.85 | 161.71 | 163.24 |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 9.70 | 11.85 | 18.66 | 19.28 | 19.52 | 20.17 | 20.31 | 20.35 | 20.37 | 20.11 | 20.78 | 20.44 | 19.67 |
| Gross International Exports | 0.87 | 4.08 | 1.47 | 1.49 | 1.50 | 1.51 | 1.52 | 1.53 | 1.54 | 1.56 | 1.57 | 1.56 | 1.56 |
| Gross Interregional Electricity Imports | 20.04 | 17.20 | 22.11 | 21.69 | 22.62 | 17.38 | 18.72 | 15.56 | 15.07 | 12.07 | 13.00 | 9.23 | 9.89 |
| Gross Interregional Electricity Exports | 5.86 | 6.29 | 7.24 | 8.13 | 8.21 | 9.33 | 10.12 | 10.78 | 10.01 | 10.15 | 9.88 | 10.09 | 9.68 |
| Purchases from Combined Heat and Power 8/ | 0.76 | 0.71 | 0.80 | 0.86 | 0.91 | 0.96 | 1.00 | 1.05 | 1.10 | 1.17 | 1.23 | 1.29 | 1.34 |
| Electric Power Sector Generation for Customers | 113.73 | 120.59 | 101.11 | 104.98 | 105.60 | 114.90 | 116.92 | 125.23 | 126.85 | 132.74 | 132.83 | 139.73 | 140.10 |
| Total Net Energy for Load | 137.50 | 139.98 | 133.97 | 137.19 | 138.94 | 142.58 | 145.31 | 149.88 | 151.85 | 154.38 | 156.40 | 159.04 | 159.75 |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 24.16 | 22.71 | 23.84 | 24.05 | 24.39 | 24.82 | 25.86 | 26.08 | 26.00 | 25.96 | 25.91 | 25.60 | 25.62 |
| Petroleum | 14.71 | 16.35 | 11.17 | 7.54 | 7.37 | 7.31 | 7.41 | 7.31 | 7.37 | 7.72 | 8.41 | 8.84 | 9.23 |
| Natural Gas | 38.60 | 37.60 | 28.78 | 31.76 | 32.61 | 39.57 | 39.65 | 45.24 | 47.70 | 52.88 | 52.14 | 57.99 | 58.65 |
| Nuclear | 31.51 | 40.39 | 38.37 | 38.44 | 38.51 | 38.58 | 38.66 | 39.29 | 39.42 | 39.52 | 39.58 | 39.64 | 39.70 |
| Pumped Storage/Other 3/ | -0.64 | -0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 27.01 | 25.19 | 17.15 | 20.55 | 21.39 | 22.13 | 22.86 | 23.63 | 23.62 | 23.57 | 23.61 | 23.61 | 23.66 |
| Total Generation | 135.35 | 141.69 | 119.31 | 122.34 | 124.28 | 132.42 | 134.43 | 141.54 | 144.11 | 149.65 | 149.64 | 155.67 | 156.86 |
| Sales to Customers | 134.28 | 140.27 | 117.18 | 120.21 | 122.14 | 130.28 | 132.30 | 139.40 | 141.97 | 147.51 | 147.50 | 153.53 | 154.72 |
| Generation for Own Use | 1.07 | 1.42 | 2.13 | 2.13 | 2.13 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| Petroleum | 0.35 | 0.35 | 0.38 | 0.38 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |
| Natural Gas | 1.20 | 1.20 | 1.30 | 1.34 | 1.38 | 1.43 | 1.48 | 1.53 | 1.58 | 1.63 | 1.67 | 1.71 | 1.75 |
| Other Gaseous Fuels | 0.37 | 0.35 | 0.37 | 0.37 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 |
| Renewable Sources 4/ | 1.80 | 1.80 | 1.78 | 1.86 | 1.92 | 1.96 | 2.00 | 2.05 | 2.11 | 2.18 | 2.27 | 2.35 | 2.42 |
| Other | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| Total | 4.67 | 4.64 | 4.76 | 4.88 | 5.05 | 5.15 | 5.24 | 5.34 | 5.44 | 5.57 | 5.70 | 5.82 | 5.93 |
| Other End Use Generators | 0.24 | 0.25 | 0.25 | 0.25 | 0.25 | 0.26 | 0.26 | 0.27 | 0.27 | 0.28 | 0.29 | 0.29 | 0.29 |
| Sales to Utilities | 0.76 | 0.71 | 0.80 | 0.86 | 0.91 | 0.96 | 1.00 | 1.05 | 1.10 | 1.17 | 1.23 | 1.29 | 1.34 |
| Generation for Own Use | 4.16 | 4.17 | 4.21 | 4.27 | 4.39 | 4.45 | 4.50 | 4.55 | 4.61 | 4.69 | 4.76 | 4.83 | 4.89 |

**Table 65. Electric Power Projections for EMM Region**
**Northeast Power Coordinating Council/New York**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 13.5 | 14.6 | 12.9 | 12.4 | 12.0 | 11.6 | 11.2 | 10.8 | 10.8 | 10.8 | 11.2 | 11.3 | 11.5 |
| Commercial | 11.5 | 11.4 | 10.4 | 9.7 | 9.3 | 8.7 | 8.4 | 7.8 | 7.9 | 7.7 | 8.1 | 7.9 | 8.2 |
| Industrial | 5.2 | 5.3 | 4.6 | 4.8 | 4.7 | 4.5 | 4.4 | 4.3 | 4.5 | 4.4 | 4.7 | 4.7 | 4.9 |
| Transportation | 11.9 | 11.2 | 9.7 | 9.7 | 9.3 | 8.9 | 8.6 | 8.2 | 8.2 | 8.1 | 8.4 | 8.3 | 8.4 |
| All Sectors Average | 10.9 | 11.3 | 10.3 | 9.8 | 9.4 | 9.0 | 8.6 | 8.2 | 8.3 | 8.1 | 8.5 | 8.4 | 8.7 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 6.3 | 6.8 | 5.9 | 5.3 | 4.9 | 4.4 | 4.0 | 3.6 | 3.7 | 3.5 | 3.9 | 3.8 | 4.0 |
| Transmission | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| Distribution | 3.2 | 3.1 | 3.0 | 3.1 | 3.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 0.27 | 0.26 | 0.24 | 0.24 | 0.25 | 0.25 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 |
| Natural Gas | 0.38 | 0.37 | 0.28 | 0.31 | 0.31 | 0.36 | 0.36 | 0.40 | 0.42 | 0.45 | 0.44 | 0.47 | 0.48 |
| Oil | 0.33 | 0.34 | 0.27 | 0.22 | 0.23 | 0.22 | 0.22 | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 |
| Total | 0.98 | 0.97 | 0.79 | 0.77 | 0.79 | 0.83 | 0.85 | 0.87 | 0.90 | 0.93 | 0.93 | 0.96 | 0.97 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 15.93 | 17.54 | 13.92 | 13.57 | 13.68 | 14.52 | 14.90 | 15.52 | 15.82 | 16.39 | 16.43 | 16.99 | 17.15 |
| Carbon Dioxide | 58.40 | 64.31 | 51.05 | 49.77 | 50.16 | 53.25 | 54.62 | 56.89 | 57.99 | 60.09 | 60.24 | 62.29 | 62.89 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.09 | 0.08 | 0.07 | 0.07 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |

**Table 65. Electric Power Projections for EMM Region**
**Northeast Power Coordinating Council/New York**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 0.0% |
| Other Fossil Steam 2/ | 8.21 | 7.63 | 7.63 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | -2.1% |
| Combined Cycle | 10.17 | 10.17 | 10.61 | 10.61 | 10.75 | 10.75 | 12.37 | 12.80 | 14.23 | 14.40 | 15.94 | 15.94 | 15.94 | 5.9% |
| Combustion Turbine/Diesel | 4.26 | 4.26 | 4.26 | 3.98 | 3.98 | 3.42 | 2.32 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | -2.6% |
| Nuclear Power | 5.06 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | -0.9% |
| Pumped Storage/Other 3/ | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 0.7% |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Capacity | 38.34 | 36.78 | 37.21 | 36.69 | 36.84 | 36.28 | 36.80 | 37.04 | 38.47 | 38.64 | 40.19 | 40.19 | 40.19 | 0.5% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | N/A |
| Combustion Turbine/Diesel | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 5.95 | 5.95 | 6.38 | 6.38 | 6.53 | 6.53 | 8.15 | 8.58 | 10.00 | 10.17 | 11.72 | 11.72 | 11.72 | N/A |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Unplanned Additions | 6.03 | 6.03 | 6.47 | 6.47 | 6.61 | 6.61 | 8.23 | 8.66 | 10.09 | 10.26 | 11.80 | 11.80 | 11.80 | N/A |
| Cumulative Total Additions | 7.12 | 7.12 | 7.55 | 7.55 | 7.70 | 7.70 | 9.32 | 9.75 | 11.17 | 11.35 | 12.89 | 12.89 | 12.89 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 3/ | 4.23 | 4.81 | 4.81 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | N/A |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combustion Turbine/Diesel | 0.33 | 0.33 | 0.33 | 0.61 | 0.61 | 1.17 | 2.27 | 2.46 | 2.46 | 2.46 | 2.46 | 2.46 | 2.46 | N/A |
| Nuclear Power | 0.00 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 4.56 | 6.12 | 6.12 | 6.65 | 6.65 | 7.20 | 8.30 | 8.49 | 8.49 | 8.49 | 8.49 | 8.49 | 8.49 | N/A |
| Combined Heat and Power 8/ | | | | | | | | | | | | | | |

**Table 65. Electric Power Projections for EMM Region**
**Northeast Power Coordinating Council/New York**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | | |
| Coal | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.0% |
| Petroleum | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.23 | 0.23 | 0.23 | 0.6% |
| Natural Gas | 0.34 | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 0.42 | 0.43 | 0.45 | 0.46 | 0.48 | 2.7% |
| Other Gaseous Fuels | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.49 | 0.49 | 0.49 | 0.49 | 0.50 | 0.50 | 0.50 | 0.51 | 0.3% |
| Renewable Sources 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 2.7% |
| Other | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | N/A |
| Total | 1.27 | 1.27 | 1.28 | 1.29 | 1.30 | 1.31 | 1.33 | 1.35 | 1.36 | 1.38 | 1.40 | 1.42 | 1.44 | 1.0% |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 2.5% |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 49.80 | 49.83 | 49.92 | 50.13 | 50.16 | 50.37 | 50.63 | 51.00 | 51.21 | 51.56 | 51.92 | 52.41 | 52.57 | 0.7% |
| Commercial/Other | 84.12 | 84.83 | 85.21 | 85.42 | 85.55 | 85.66 | 85.93 | 86.33 | 87.02 | 87.73 | 88.39 | 88.91 | 89.01 | 0.9% |
| Industrial | 28.95 | 29.43 | 29.68 | 29.91 | 30.23 | 30.53 | 30.84 | 31.08 | 31.32 | 31.67 | 32.02 | 32.41 | 32.70 | 1.1% |
| Transportation | 1.56 | 1.59 | 1.62 | 1.65 | 1.69 | 1.73 | 1.77 | 1.82 | 1.86 | 1.90 | 1.95 | 1.99 | 2.04 | 2.0% |
| Total Sales | 164.43 | 165.68 | 166.42 | 167.12 | 167.64 | 168.28 | 169.17 | 170.22 | 171.40 | 172.86 | 174.28 | 175.72 | 176.31 | 0.9% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 17.92 | 16.28 | 17.00 | 16.32 | 15.14 | 13.30 | 11.38 | 10.38 | 7.81 | 6.16 | 5.14 | 5.00 | 4.71 | -3.8% |
| Gross International Exports | 1.56 | 1.56 | 1.56 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | -4.0% |
| Gross Interregional Electricity Imports | 8.82 | 9.85 | 12.22 | 13.75 | 14.13 | 16.58 | 12.80 | 11.32 | 8.12 | 8.09 | 6.70 | 6.86 | 7.19 | -3.6% |
| Gross Interregional Electricity Exports | 9.77 | 8.75 | 7.64 | 8.08 | 7.90 | 8.43 | 9.56 | 8.75 | 9.13 | 7.91 | 10.44 | 10.21 | 9.40 | 1.7% |
| Purchases from Combined Heat and Power 8/ | 1.39 | 1.44 | 1.48 | 1.52 | 1.57 | 1.62 | 1.68 | 1.74 | 1.79 | 1.86 | 1.93 | 2.01 | 2.08 | 4.6% |
| Electric Power Sector Generation for Customers | 144.34 | 144.76 | 141.14 | 141.43 | 142.62 | 143.25 | 151.93 | 154.66 | 162.38 | 164.24 | 171.17 | 172.31 | 171.99 | 1.5% |
| Total Net Energy for Load | 161.14 | 162.03 | 162.64 | 163.38 | 164.00 | 164.77 | 166.67 | 167.80 | 169.43 | 170.90 | 172.94 | 174.43 | 175.01 | 0.9% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 25.91 | 25.95 | 26.22 | 26.27 | 26.33 | 26.52 | 26.49 | 26.53 | 26.51 | 26.56 | 26.52 | 26.51 | 26.55 | 0.7% |
| Petroleum | 9.66 | 9.76 | 9.90 | 9.91 | 9.79 | 9.70 | 9.75 | 10.00 | 10.01 | 10.02 | 10.06 | 10.08 | 10.09 | -2.0% |
| Natural Gas | 61.92 | 62.43 | 66.87 | 67.18 | 68.45 | 68.88 | 76.42 | 78.78 | 86.04 | 87.97 | 94.27 | 95.46 | 95.16 | 3.9% |
| Nuclear | 39.76 | 39.82 | 31.58 | 31.64 | 31.70 | 31.76 | 31.82 | 31.88 | 31.90 | 31.90 | 31.90 | 31.90 | 31.90 | -1.0% |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 23.58 | 23.63 | 23.51 | 23.50 | 23.42 | 23.42 | 23.41 | 23.40 | 23.40 | 23.41 | 23.41 | 23.40 | 23.41 | -0.3% |
| Total Generation | 160.83 | 161.58 | 158.08 | 158.49 | 159.69 | 160.28 | 167.89 | 170.59 | 177.87 | 179.85 | 186.16 | 187.36 | 187.11 | 1.2% |
| Sales to Customers | 158.69 | 159.45 | 155.94 | 156.36 | 157.55 | 158.14 | 165.75 | 168.46 | 175.73 | 177.71 | 184.03 | 185.23 | 184.97 | 1.2% |
| Generation for Own Use | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 1.7% |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.0% |
| Petroleum | 0.37 | 0.37 | 0.37 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.38 | 0.39 | 0.5% |
| Natural Gas | 1.79 | 1.82 | 1.87 | 1.92 | 1.98 | 2.04 | 2.11 | 2.19 | 2.27 | 2.37 | 2.45 | 2.56 | 2.65 | 3.4% |
| Other Gaseous Fuels | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.45 | 0.45 | 0.46 | 0.46 | 0.47 | 0.48 | 0.49 | 1.4% |
| Renewable Sources 4/ | 2.49 | 2.56 | 2.61 | 2.67 | 2.72 | 2.78 | 2.85 | 2.91 | 2.96 | 3.03 | 3.09 | 3.16 | 3.23 | 2.5% |
| Other | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.0% |
| Total | 6.03 | 6.14 | 6.24 | 6.35 | 6.46 | 6.58 | 6.73 | 6.87 | 7.01 | 7.18 | 7.34 | 7.53 | 7.70 | 2.1% |
| Other End Use Generators | 0.29 | 0.30 | 0.30 | 0.30 | 0.31 | 0.31 | 0.31 | 0.32 | 0.33 | 0.34 | 0.34 | 0.35 | 0.36 | 1.6% |
| Sales to Utilities | 1.39 | 1.44 | 1.48 | 1.52 | 1.57 | 1.62 | 1.68 | 1.74 | 1.79 | 1.86 | 1.93 | 2.01 | 2.08 | 4.6% |
| Generation for Own Use | 4.94 | 5.00 | 5.06 | 5.13 | 5.20 | 5.28 | 5.36 | 5.46 | 5.55 | 5.66 | 5.76 | 5.88 | 5.98 | 1.5% |

**Table 65. Electric Power Projections for EMM Region**
**Northeast Power Coordinating Council/New York**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 11.6 | 11.8 | 11.9 | 12.2 | 12.1 | 12.4 | 12.2 | 12.3 | 11.8 | 12.0 | 11.8 | 12.0 | 12.1 | -0.8% |
| Commercial | 8.2 | 8.5 | 8.8 | 9.3 | 9.4 | 10.0 | 9.9 | 10.0 | 9.3 | 9.4 | 8.8 | 8.9 | 9.0 | -1.0% |
| Industrial | 4.9 | 5.1 | 5.3 | 5.5 | 5.5 | 5.9 | 5.7 | 5.8 | 5.3 | 5.4 | 5.1 | 5.3 | 5.3 | 0.0% |
| Transportation | 8.4 | 8.5 | 8.6 | 8.8 | 8.7 | 8.9 | 8.7 | 8.8 | 8.3 | 8.3 | 8.0 | 8.1 | 8.2 | -1.3% |
| All Sectors Average | 8.7 | 8.9 | 9.1 | 9.5 | 9.5 | 10.0 | 9.8 | 9.9 | 9.3 | 9.4 | 9.0 | 9.2 | 9.2 | -0.9% |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 4.0 | 4.2 | 4.5 | 4.8 | 4.8 | 5.3 | 5.1 | 5.2 | 4.6 | 4.7 | 4.3 | 4.4 | 4.5 | -1.7% |
| Transmission | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.1% |
| Distribution | 3.2 | 3.2 | 3.2 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 | 0.3% |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 0.26 | 0.26 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.2% |
| Natural Gas | 0.50 | 0.50 | 0.53 | 0.53 | 0.54 | 0.54 | 0.59 | 0.60 | 0.64 | 0.66 | 0.69 | 0.70 | 0.70 | 2.6% |
| Oil | 0.24 | 0.24 | 0.25 | 0.25 | 0.25 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 | -1.6% |
| Total | 1.00 | 1.01 | 1.04 | 1.04 | 1.05 | 1.06 | 1.09 | 1.11 | 1.15 | 1.17 | 1.20 | 1.21 | 1.20 | 0.9% |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 17.65 | 17.74 | 18.32 | 18.38 | 18.51 | 18.61 | 19.33 | 19.63 | 20.33 | 20.55 | 21.14 | 21.26 | 21.23 | 0.8% |
| Carbon Dioxide | 64.71 | 65.06 | 67.16 | 67.38 | 67.88 | 68.23 | 70.87 | 71.98 | 74.53 | 75.35 | 77.51 | 77.96 | 77.86 | 0.8% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | -0.5% |

**Table 65. Electric Power Projections for EMM Region**
**Northeast Power Coordinating Council/New York**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 66. Electric Power Projectiions for EMM Region**
**Northwest Power Coordinating Council/New England**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 2.95 | 2.95 | 2.95 | 2.95 | 2.95 | 2.95 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 |
| Other Fossil Steam 2/ | 7.83 | 7.82 | 7.82 | 7.82 | 7.82 | 7.82 | 6.75 | 5.80 | 4.66 | 4.66 | 4.18 | 4.18 | 4.18 |
| Combined Cycle | 5.47 | 6.95 | 9.00 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | 10.54 | 10.39 | 11.27 | 11.27 |
| Combustion Turbine/Diesel | 2.02 | 1.98 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| Nuclear Power | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 |
| Pumped Storage/Other 3/ | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 2.79 | 2.80 | 2.81 | 2.85 | 2.85 | 2.85 | 2.89 | 2.93 | 2.96 | 3.07 | 3.14 | 3.24 | 3.32 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.06 | 0.06 |
| Total Capacity | 27.12 | 28.55 | 31.63 | 31.88 | 31.88 | 31.89 | 30.84 | 29.95 | 28.84 | 30.31 | 29.74 | 30.75 | 30.84 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 2.05 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.01 | 0.06 | 0.06 | 0.06 | 0.10 | 0.13 | 0.17 | 0.20 | 0.27 | 0.35 | 0.43 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 2.97 | 3.23 | 3.23 | 3.23 | 3.27 | 3.30 | 3.34 | 3.37 | 3.44 | 3.51 | 3.60 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.33 | 1.33 | 2.22 | 2.22 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.07 | 0.10 | 0.10 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.03 | 0.03 | 0.06 | 0.06 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 1.44 | 1.44 | 2.38 | 2.38 |
| Cumulative Total Additions | 0.00 | 0.00 | 2.97 | 3.23 | 3.23 | 3.23 | 3.27 | 3.31 | 3.34 | 4.81 | 4.88 | 5.89 | 5.97 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.07 | 2.02 | 3.16 | 3.16 | 3.64 | 3.64 | 3.64 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.15 | 0.15 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.09 | 2.04 | 3.18 | 3.18 | 3.82 | 3.82 | 3.82 |
| Combined Heat and Power 8/ | | | | | | | | | | | | | |

**Table 66. Electric Power Projectiions for EMM Region**
**Northwest Power Coordinating Council/New England**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | |
| Coal | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Petroleum | 0.57 | 0.57 | 0.57 | 0.57 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 |
| Natural Gas | 0.44 | 0.44 | 0.46 | 0.47 | 0.48 | 0.49 | 0.51 | 0.52 | 0.54 | 0.55 | 0.56 | 0.57 | 0.59 |
| Other Gaseous Fuels | 1.37 | 1.37 | 1.37 | 1.37 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 |
| Renewable Sources 4/ | 0.55 | 0.55 | 0.55 | 0.58 | 0.60 | 0.62 | 0.63 | 0.65 | 0.67 | 0.69 | 0.73 | 0.75 | 0.78 |
| Other | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Total | 2.96 | 2.97 | 2.98 | 3.02 | 3.15 | 3.18 | 3.21 | 3.24 | 3.27 | 3.31 | 3.36 | 3.40 | 3.43 |
| Other End Use Generators | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 41.36 | 41.29 | 42.31 | 43.79 | 44.35 | 44.86 | 45.49 | 46.02 | 46.55 | 46.79 | 46.94 | 47.02 | 47.09 |
| Commercial/Other | 48.65 | 51.25 | 52.80 | 52.51 | 53.85 | 55.13 | 56.40 | 57.60 | 58.60 | 59.69 | 60.62 | 61.65 | 62.54 |
| Industrial | 26.70 | 24.43 | 22.71 | 23.84 | 24.47 | 24.79 | 25.24 | 25.89 | 26.57 | 27.16 | 27.87 | 28.53 | 29.10 |
| Transportation | 1.07 | 1.08 | 1.12 | 1.14 | 1.16 | 1.19 | 1.21 | 1.24 | 1.26 | 1.29 | 1.32 | 1.36 | 1.39 |
| Total Sales | 117.78 | 118.05 | 118.93 | 121.28 | 123.83 | 125.97 | 128.35 | 130.75 | 132.98 | 134.94 | 136.75 | 138.56 | 140.12 |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 16.77 | 9.37 | 6.89 | 6.77 | 6.32 | 8.73 | 8.23 | 7.74 | 7.22 | 6.72 | 7.49 | 6.76 | 6.11 |
| Gross International Exports | 2.02 | 0.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross Interregional Electricity Imports | 3.71 | 3.20 | 5.71 | 6.59 | 6.67 | 7.76 | 8.54 | 9.14 | 8.45 | 8.30 | 8.27 | 8.02 | 7.83 |
| Gross Interregional Electricity Exports | 3.29 | 4.44 | 1.71 | 0.61 | 0.31 | 0.27 | 0.06 | 0.02 | 0.01 | 0.14 | 0.26 | 0.08 | 0.13 |
| Purchases from Combined Heat and Power 8/ | 2.32 | 2.16 | 2.36 | 2.58 | 2.78 | 2.92 | 3.04 | 3.20 | 3.37 | 3.58 | 3.82 | 4.04 | 4.23 |
| Electric Power Sector Generation for Customers | 94.28 | 95.88 | 107.55 | 106.60 | 109.07 | 108.09 | 109.84 | 111.99 | 115.28 | 118.21 | 119.24 | 123.29 | 125.63 |
| Total Net Energy for Load | 111.76 | 105.96 | 120.80 | 121.93 | 124.53 | 127.23 | 129.60 | 132.06 | 134.31 | 136.67 | 138.56 | 142.03 | 143.67 |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 18.61 | 18.39 | 19.35 | 19.43 | 19.98 | 20.62 | 21.40 | 22.01 | 21.77 | 21.77 | 21.77 | 21.77 | 21.77 |
| Petroleum | 17.66 | 15.65 | 7.22 | 5.43 | 8.68 | 8.47 | 8.93 | 9.69 | 11.86 | 8.77 | 9.49 | 8.75 | 9.95 |
| Natural Gas | 22.79 | 31.35 | 47.59 | 48.88 | 47.43 | 45.52 | 45.81 | 46.28 | 47.51 | 52.58 | 52.54 | 55.05 | 55.76 |
| Nuclear | 34.35 | 33.44 | 34.75 | 34.83 | 34.91 | 34.98 | 35.06 | 35.31 | 35.39 | 35.46 | 35.54 | 35.62 | 35.62 |
| Pumped Storage/Other 3/ | -0.70 | -0.71 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 |
| Renewable Sources 4/ | 13.89 | 11.71 | 11.61 | 12.40 | 12.54 | 12.54 | 12.67 | 12.83 | 12.99 | 13.50 | 13.78 | 14.19 | 14.55 |
| Total Generation | 106.61 | 109.83 | 120.52 | 120.96 | 123.53 | 122.11 | 123.86 | 126.10 | 129.49 | 132.08 | 133.11 | 135.37 | 137.64 |
| Sales to Customers | 104.46 | 106.02 | 116.34 | 116.79 | 119.35 | 117.93 | 119.71 | 121.94 | 125.34 | 127.92 | 128.96 | 131.33 | 133.60 |
| Generation for Own Use | 2.15 | 3.81 | 4.17 | 4.17 | 4.17 | 4.18 | 4.16 | 4.16 | 4.15 | 4.15 | 4.15 | 4.04 | 4.04 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.03 | 0.03 |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 |
| Petroleum | 1.74 | 1.71 | 1.87 | 1.87 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 |
| Natural Gas | 1.06 | 1.06 | 1.14 | 1.18 | 1.21 | 1.26 | 1.30 | 1.35 | 1.39 | 1.44 | 1.47 | 1.51 | 1.54 |
| Other Gaseous Fuels | 1.85 | 1.73 | 1.80 | 1.80 | 2.17 | 2.17 | 2.17 | 2.17 | 2.17 | 2.17 | 2.17 | 2.17 | 2.17 |
| Renewable Sources 4/ | 8.99 | 8.98 | 8.89 | 9.29 | 9.59 | 9.82 | 10.01 | 10.26 | 10.54 | 10.91 | 11.36 | 11.77 | 12.12 |
| Other | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 |
| Total | 14.49 | 14.33 | 14.56 | 14.99 | 15.68 | 15.95 | 16.18 | 16.48 | 16.80 | 17.22 | 17.71 | 18.15 | 18.53 |
| Other End Use Generators | 1.22 | 1.23 | 1.25 | 1.26 | 1.27 | 1.29 | 1.31 | 1.34 | 1.37 | 1.41 | 1.46 | 1.46 | 1.47 |
| Sales to Utilities | 2.32 | 2.16 | 2.36 | 2.58 | 2.78 | 2.92 | 3.04 | 3.20 | 3.37 | 3.58 | 3.82 | 4.04 | 4.23 |
| Generation for Own Use | 13.40 | 13.40 | 13.45 | 13.67 | 14.17 | 14.32 | 14.45 | 14.62 | 14.81 | 15.05 | 15.34 | 15.57 | 15.77 |

**Table 66. Electric Power Projectiions for EMM Region**
**Northwest Power Coordinating Council/New England**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 10.9 | 11.6 | 10.3 | 10.4 | 10.3 | 10.1 | 9.8 | 9.8 | 9.9 | 9.8 | 10.2 | 10.3 | 10.5 |
| Commercial | 9.3 | 9.7 | 9.0 | 8.4 | 8.1 | 7.8 | 7.5 | 7.4 | 7.5 | 7.3 | 7.6 | 7.5 | 7.7 |
| Industrial | 7.5 | 7.9 | 7.1 | 7.2 | 6.9 | 6.6 | 6.4 | 6.3 | 6.4 | 6.0 | 6.0 | 5.7 | 5.8 |
| Transportation | 10.8 | 10.0 | 8.9 | 8.9 | 8.7 | 8.4 | 8.2 | 8.1 | 8.2 | 8.0 | 8.2 | 8.2 | 8.4 |
| All Sectors Average | 9.4 | 10.0 | 9.1 | 8.9 | 8.6 | 8.4 | 8.1 | 8.0 | 8.1 | 7.9 | 8.2 | 8.1 | 8.3 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 5.1 | 5.9 | 5.1 | 4.9 | 4.5 | 4.2 | 3.9 | 3.8 | 3.9 | 3.7 | 3.9 | 3.9 | 4.1 |
| Transmission | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| Distribution | 3.3 | 3.0 | 3.0 | 3.0 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 0.22 | 0.21 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| Natural Gas | 0.21 | 0.29 | 0.39 | 0.39 | 0.38 | 0.36 | 0.36 | 0.37 | 0.38 | 0.40 | 0.40 | 0.41 | 0.42 |
| Oil | 0.26 | 0.24 | 0.14 | 0.13 | 0.16 | 0.16 | 0.16 | 0.17 | 0.19 | 0.16 | 0.17 | 0.14 | 0.16 |
| Total | 0.69 | 0.75 | 0.71 | 0.72 | 0.74 | 0.72 | 0.74 | 0.76 | 0.79 | 0.78 | 0.79 | 0.77 | 0.79 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 15.09 | 15.80 | 13.16 | 12.89 | 13.56 | 13.44 | 13.78 | 14.19 | 14.79 | 14.50 | 14.67 | 14.64 | 15.01 |
| Carbon Dioxide | 55.34 | 57.94 | 48.24 | 47.27 | 49.72 | 49.29 | 50.53 | 52.02 | 54.23 | 53.15 | 53.80 | 53.70 | 55.04 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 |

**Table 66. Electric Power Projectiions for EMM Region**
**Northwest Power Coordinating Council/New England**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 0.0% |
| Other Fossil Steam 2/ | 4.18 | 4.18 | 4.18 | 4.18 | 4.18 | 4.18 | 4.18 | 4.18 | 4.18 | 4.01 | 4.01 | 4.01 | 4.01 | -2.7% |
| Combined Cycle | 11.42 | 11.42 | 11.42 | 11.42 | 11.42 | 11.42 | 11.42 | 11.42 | 11.64 | 12.12 | 12.60 | 12.97 | 13.63 | 2.8% |
| Combustion Turbine/Diesel | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 1.7% |
| Nuclear Power | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 0.0% |
| Pumped Storage/Other 3/ | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.8% |
| Renewable Sources 4/ | 3.40 | 3.49 | 3.57 | 3.66 | 3.81 | 3.84 | 3.93 | 4.03 | 4.03 | 4.05 | 4.05 | 4.05 | 4.05 | 1.6% |
| Distributed Generation 5/ | 0.07 | 0.08 | 0.09 | 0.10 | 0.10 | 0.11 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.14 | 0.15 | N/A |
| Total Capacity | 31.07 | 31.16 | 31.26 | 31.36 | 31.52 | 31.55 | 31.65 | 31.74 | 31.97 | 32.31 | 32.80 | 33.18 | 33.84 | 0.7% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | N/A |
| Combustion Turbine/Diesel | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.51 | 0.59 | 0.68 | 0.76 | 0.92 | 0.94 | 1.04 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 3.68 | 3.76 | 3.85 | 3.93 | 4.09 | 4.11 | 4.21 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 2.37 | 2.37 | 2.37 | 2.37 | 2.37 | 2.37 | 2.37 | 2.37 | 2.58 | 3.06 | 3.55 | 3.92 | 4.57 | N/A |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.12 | 0.12 | 0.12 | 0.12 | N/A |
| Distributed Generation 5/ | 0.07 | 0.08 | 0.09 | 0.10 | 0.10 | 0.11 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.14 | 0.15 | N/A |
| Total Unplanned Additions | 2.53 | 2.54 | 2.56 | 2.56 | 2.57 | 2.58 | 2.58 | 2.58 | 2.81 | 3.31 | 3.80 | 4.18 | 4.84 | N/A |
| Cumulative Total Additions | 6.21 | 6.30 | 6.40 | 6.50 | 6.66 | 6.69 | 6.79 | 6.88 | 7.11 | 7.61 | 8.10 | 8.48 | 9.14 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | N/A |
| Other Fossil Steam 3/ | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.80 | 3.80 | 3.80 | 3.80 | N/A |
| Combined Cycle | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | N/A |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 3.82 | 3.82 | 3.82 | 3.82 | 3.82 | 3.82 | 3.82 | 3.82 | 3.82 | 3.98 | 3.98 | 3.98 | 3.98 | N/A |
| Combined Heat and Power 8/ | | | | | | | | | | | | | | |

**Table 66. Electric Power Projectiions for EMM Region**
**Northwest Power Coordinating Council/New England**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | | | | | | | | | | | | | | |
| Coal | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Petroleum | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.64 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.6% |
| Natural Gas | 0.60 | 0.61 | 0.62 | 0.64 | 0.65 | 0.67 | 0.69 | 0.71 | 0.74 | 0.77 | 0.79 | 0.82 | 0.85 | 2.7% |
| Other Gaseous Fuels | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.41 | 1.42 | 1.43 | 1.44 | 1.44 | 1.46 | 1.47 | 0.3% |
| Renewable Sources 4/ | 0.80 | 0.83 | 0.85 | 0.86 | 0.88 | 0.91 | 0.93 | 0.95 | 0.97 | 0.99 | 1.01 | 1.04 | 1.06 | 2.7% |
| Other | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | N/A |
| Total | 3.47 | 3.50 | 3.54 | 3.57 | 3.60 | 3.65 | 3.70 | 3.75 | 3.81 | 3.87 | 3.93 | 4.00 | 4.06 | 1.3% |
| Other End Use Generators | 0.18 | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.20 | 0.21 | 0.22 | 0.22 | 0.23 | 0.24 | 2.5% |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 46.99 | 47.05 | 47.27 | 47.52 | 47.60 | 47.79 | 48.02 | 48.41 | 48.63 | 49.08 | 49.58 | 50.12 | 50.45 | 0.8% |
| Commercial/Other | 63.46 | 64.28 | 65.06 | 65.83 | 66.62 | 67.44 | 68.29 | 69.09 | 69.94 | 70.87 | 71.91 | 72.91 | 74.01 | 1.5% |
| Industrial | 29.56 | 30.01 | 30.29 | 30.48 | 30.75 | 31.04 | 31.38 | 31.61 | 31.85 | 32.20 | 32.53 | 32.93 | 33.22 | 1.3% |
| Transportation | 1.42 | 1.45 | 1.49 | 1.52 | 1.56 | 1.60 | 1.64 | 1.68 | 1.73 | 1.77 | 1.82 | 1.87 | 1.91 | 2.4% |
| Total Sales | 141.43 | 142.80 | 144.10 | 145.35 | 146.53 | 147.86 | 149.33 | 150.79 | 152.15 | 153.92 | 155.83 | 157.82 | 159.60 | 1.3% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 5.77 | 5.46 | 7.61 | 6.91 | 6.20 | 5.46 | 4.94 | 8.89 | 8.24 | 7.67 | 7.10 | 6.53 | 5.94 | -1.9% |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross Interregional Electricity Imports | 7.85 | 7.37 | 6.58 | 7.36 | 7.29 | 8.00 | 8.53 | 7.60 | 7.52 | 6.53 | 8.20 | 8.38 | 8.01 | 3.9% |
| Gross Interregional Electricity Exports | 0.02 | 0.03 | 0.85 | 0.91 | 0.66 | 0.04 | 0.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | -28.1% |
| Purchases from Combined Heat and Power 8/ | 4.40 | 4.58 | 4.73 | 4.86 | 5.00 | 5.16 | 5.35 | 5.52 | 5.68 | 5.88 | 6.09 | 6.33 | 6.53 | 4.7% |
| Electric Power Sector Generation for Customers | 127.04 | 128.97 | 129.50 | 130.67 | 132.39 | 132.81 | 134.07 | 132.51 | 134.52 | 137.77 | 138.83 | 141.51 | 144.45 | 1.7% |
| Total Net Energy for Load | 145.04 | 146.35 | 147.56 | 148.88 | 150.22 | 151.39 | 152.88 | 154.52 | 155.96 | 157.82 | 160.21 | 162.74 | 164.93 | 1.9% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 21.77 | 21.77 | 21.77 | 21.81 | 21.77 | 21.77 | 21.81 | 21.81 | 21.81 | 21.81 | 21.81 | 21.81 | 21.81 | 0.7% |
| Petroleum | 10.58 | 11.25 | 11.53 | 12.29 | 12.24 | 12.17 | 12.43 | 11.91 | 11.74 | 11.44 | 10.64 | 11.40 | 11.17 | -1.4% |
| Natural Gas | 56.08 | 57.13 | 57.00 | 56.97 | 58.20 | 58.65 | 59.29 | 57.72 | 59.79 | 63.25 | 64.77 | 66.27 | 69.13 | 3.3% |
| Nuclear | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 0.3% |
| Pumped Storage/Other 3/ | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -15.7% |
| Renewable Sources 4/ | 14.92 | 15.30 | 15.69 | 16.10 | 16.68 | 16.98 | 17.34 | 17.77 | 17.88 | 17.96 | 17.96 | 17.96 | 17.96 | 1.8% |
| Total Generation | 138.97 | 141.06 | 141.60 | 142.78 | 144.50 | 145.18 | 146.49 | 144.82 | 146.83 | 150.07 | 150.79 | 153.05 | 155.68 | 1.5% |
| Sales to Customers | 134.92 | 137.02 | 137.56 | 138.74 | 140.46 | 141.13 | 142.45 | 140.78 | 142.79 | 146.02 | 146.75 | 149.01 | 151.64 | 1.5% |
| Generation for Own Use | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 | 0.2% |
| Distributed Generation 5/ | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.0% |
| Petroleum | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.86 | 1.87 | 1.87 | 1.88 | 1.89 | 1.90 | 1.90 | 0.5% |
| Natural Gas | 1.58 | 1.61 | 1.65 | 1.70 | 1.74 | 1.80 | 1.86 | 1.93 | 2.01 | 2.09 | 2.17 | 2.26 | 2.34 | 3.4% |
| Other Gaseous Fuels | 2.17 | 2.17 | 2.17 | 2.17 | 2.17 | 2.17 | 2.21 | 2.24 | 2.25 | 2.29 | 2.32 | 2.38 | 2.40 | 1.4% |
| Renewable Sources 4/ | 12.44 | 12.78 | 13.07 | 13.33 | 13.61 | 13.92 | 14.24 | 14.53 | 14.81 | 15.14 | 15.46 | 15.81 | 16.14 | 2.5% |
| Other | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.0% |
| Total | 18.89 | 19.26 | 19.59 | 19.90 | 20.23 | 20.60 | 21.02 | 21.43 | 21.79 | 22.24 | 22.69 | 23.20 | 23.64 | 2.1% |
| Other End Use Generators | 1.47 | 1.48 | 1.50 | 1.52 | 1.53 | 1.55 | 1.57 | 1.61 | 1.64 | 1.68 | 1.72 | 1.76 | 1.79 | 1.6% |
| Sales to Utilities | 4.40 | 4.58 | 4.73 | 4.86 | 5.00 | 5.16 | 5.35 | 5.52 | 5.68 | 5.88 | 6.09 | 6.33 | 6.53 | 4.7% |
| Generation for Own Use | 15.96 | 16.16 | 16.36 | 16.56 | 16.77 | 16.99 | 17.25 | 17.51 | 17.75 | 18.04 | 18.32 | 18.63 | 18.90 | 1.4% |

**Table 66. Electric Power Projectiions for EMM Region**
**Northwest Power Coordinating Council/New England**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 10.7 | 10.8 | 10.8 | 11.0 | 11.0 | 11.1 | 11.2 | 11.3 | 11.3 | 11.3 | 11.2 | 11.3 | 11.2 | -0.1% |
| Commercial | 7.9 | 8.1 | 8.2 | 8.4 | 8.6 | 8.8 | 9.1 | 9.4 | 9.5 | 9.6 | 9.5 | 9.7 | 9.5 | -0.1% |
| Industrial | 5.8 | 6.0 | 6.0 | 6.2 | 6.3 | 6.4 | 6.6 | 6.8 | 6.8 | 6.9 | 6.9 | 7.0 | 6.9 | -0.5% |
| Transportation | 8.4 | 8.5 | 8.5 | 8.6 | 8.5 | 8.6 | 8.6 | 8.7 | 8.6 | 8.5 | 8.4 | 8.5 | 8.4 | -0.7% |
| All Sectors Average | 8.4 | 8.5 | 8.6 | 8.8 | 8.9 | 9.1 | 9.3 | 9.5 | 9.5 | 9.6 | 9.5 | 9.6 | 9.5 | -0.2% |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 4.1 | 4.3 | 4.3 | 4.5 | 4.6 | 4.8 | 5.0 | 5.2 | 5.2 | 5.3 | 5.2 | 5.4 | 5.3 | -0.5% |
| Transmission | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.4% |
| Distribution | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.1 | 3.1 | 0.1% |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.1% |
| Natural Gas | 0.42 | 0.43 | 0.43 | 0.43 | 0.44 | 0.44 | 0.45 | 0.44 | 0.45 | 0.47 | 0.48 | 0.48 | 0.50 | 2.2% |
| Oil | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.17 | 0.16 | 0.17 | 0.16 | -1.7% |
| Total | 0.80 | 0.81 | 0.82 | 0.82 | 0.83 | 0.84 | 0.85 | 0.83 | 0.84 | 0.86 | 0.86 | 0.87 | 0.88 | 0.7% |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 15.17 | 15.47 | 15.52 | 15.73 | 15.85 | 15.90 | 16.06 | 15.76 | 15.93 | 16.21 | 16.11 | 16.42 | 16.60 | 0.2% |
| Carbon Dioxide | 55.62 | 56.73 | 56.92 | 57.69 | 58.10 | 58.29 | 58.88 | 57.78 | 58.41 | 59.45 | 59.09 | 60.20 | 60.86 | 0.2% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.0% |

**Table 66. Electric Power Projectiions for EMM Region**
**Northwest Power Coordinating Council/New England**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 67. Electric Power Projections for EMM Region**
**Florida Reliability Coordinating Council**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 10.95 | 10.97 | 11.49 | 11.49 | 10.37 | 10.37 | 10.37 | 10.37 | 10.37 | 10.37 | 10.64 | 10.92 | 10.92 |
| Other Fossil Steam 2/ | 13.30 | 12.45 | 11.51 | 10.78 | 10.78 | 10.54 | 10.22 | 10.22 | 10.22 | 10.22 | 10.22 | 10.22 | 10.22 |
| Combined Cycle | 4.87 | 5.25 | 7.46 | 8.73 | 10.20 | 10.20 | 10.20 | 11.06 | 11.98 | 13.09 | 14.08 | 15.49 | 16.48 |
| Combustion Turbine/Diesel | 6.42 | 7.60 | 10.22 | 10.22 | 10.19 | 10.19 | 10.06 | 9.98 | 9.95 | 9.95 | 9.90 | 10.06 | 10.16 |
| Nuclear Power | 3.90 | 3.90 | 3.91 | 3.91 | 3.92 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 |
| Total Capacity | 40.02 | 40.75 | 45.18 | 45.70 | 46.05 | 45.83 | 45.39 | 46.17 | 47.06 | 48.17 | 49.38 | 51.25 | 52.35 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 1.65 | 2.91 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 4.26 | 5.53 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.27 | 0.55 | 0.55 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.86 | 1.78 | 2.89 | 3.87 | 5.29 | 6.28 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.22 | 0.48 | 0.58 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.87 | 1.80 | 2.91 | 4.38 | 6.35 | 7.45 |
| Cumulative Total Additions | 0.00 | 0.00 | 4.26 | 5.53 | 7.00 | 7.00 | 7.02 | 7.88 | 8.80 | 9.91 | 11.38 | 13.36 | 14.45 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.05 | 0.40 | 0.40 | 0.64 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.01 | 0.01 | 0.04 | 0.04 | 0.17 | 0.25 | 0.28 | 0.28 | 0.54 | 0.65 | 0.65 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.06 | 0.41 | 1.04 | 1.27 | 1.73 | 1.81 | 1.84 | 1.84 | 2.10 | 2.21 | 2.21 |
| Combined Heat and Power 8/ Capacity | | | | | | | | | | | | | |

**Table 67. Electric Power Projections for EMM Region**
**Florida Reliability Coordinating Council**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.28 | 0.28 | 0.28 | 0.29 | 0.30 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.37 | 0.38 | 0.39 |
| Other | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Total | 0.57 | 0.57 | 0.58 | 0.60 | 0.61 | 0.62 | 0.64 | 0.65 | 0.67 | 0.69 | 0.71 | 0.73 | 0.74 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 |
| | | | | | | | | | | | | | |
| Electricity Demand | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 96.84 | 97.65 | 96.04 | 100.24 | 102.73 | 104.66 | 106.81 | 109.22 | 111.97 | 114.00 | 116.21 | 118.16 | 120.44 |
| Commercial/Other | 68.93 | 71.51 | 70.84 | 72.33 | 74.56 | 76.65 | 78.84 | 81.18 | 83.62 | 86.11 | 88.66 | 91.33 | 94.10 |
| Industrial | 17.46 | 16.28 | 14.46 | 15.19 | 15.53 | 15.70 | 16.01 | 16.43 | 16.91 | 17.29 | 17.80 | 18.26 | 18.69 |
| Transportation | 1.03 | 1.07 | 1.05 | 1.08 | 1.11 | 1.14 | 1.17 | 1.21 | 1.24 | 1.28 | 1.32 | 1.37 | 1.41 |
| Total Sales | 184.27 | 186.51 | 182.40 | 188.84 | 193.93 | 198.15 | 202.83 | 208.04 | 213.74 | 218.70 | 224.00 | 229.13 | 234.64 |
| | | | | | | | | | | | | | |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross Interregional Electricity Imports | 29.56 | 37.06 | 39.27 | 44.44 | 45.41 | 45.44 | 45.67 | 45.31 | 43.66 | 42.83 | 41.20 | 39.45 | 37.82 |
| Gross Interregional Electricity Exports | 0.73 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Purchases from Combined Heat and Power 8/ | 0.48 | 0.43 | 0.52 | 0.53 | 0.55 | 0.57 | 0.59 | 0.61 | 0.62 | 0.64 | 0.66 | 0.67 | 0.68 |
| Electric Power Sector Generation for Customers | 166.80 | 169.36 | 147.26 | 149.01 | 153.23 | 157.42 | 161.75 | 167.34 | 174.77 | 180.64 | 187.70 | 194.69 | 201.79 |
| Total Net Energy for Load | 196.11 | 206.80 | 187.05 | 193.97 | 199.20 | 203.43 | 208.01 | 213.25 | 219.05 | 224.12 | 229.55 | 234.81 | 240.29 |
| | | | | | | | | | | | | | |
| Generation by Fuel Type | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 64.25 | 61.47 | 72.69 | 74.02 | 71.52 | 73.97 | 76.13 | 78.18 | 77.55 | 77.55 | 79.57 | 81.65 | 81.65 |
| Petroleum | 35.37 | 40.50 | 5.30 | 4.65 | 4.34 | 5.20 | 5.48 | 5.53 | 6.73 | 6.93 | 7.33 | 6.64 | 7.95 |
| Natural Gas | 41.41 | 42.17 | 43.22 | 43.83 | 50.84 | 51.56 | 53.41 | 57.00 | 63.84 | 69.46 | 74.09 | 79.64 | 85.43 |
| Nuclear | 32.29 | 31.58 | 31.82 | 31.86 | 32.01 | 32.27 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 3.84 | 3.97 | 3.75 | 4.09 | 4.07 | 4.12 | 4.27 | 4.27 | 4.27 | 4.27 | 4.28 | 4.27 | 4.27 |
| Total Generation | 177.16 | 179.69 | 156.78 | 158.44 | 162.78 | 167.12 | 171.62 | 177.30 | 184.70 | 190.53 | 197.59 | 204.52 | 211.63 |
| Sales to Customers | 176.03 | 178.53 | 155.48 | 157.15 | 161.47 | 165.80 | 170.29 | 175.97 | 183.37 | 189.20 | 196.25 | 203.19 | 210.29 |
| Generation for Own Use | 1.13 | 1.16 | 1.30 | 1.29 | 1.31 | 1.33 | 1.33 | 1.34 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 |
| | | | | | | | | | | | | | |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| Petroleum | 0.44 | 0.43 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 |
| Natural Gas | 0.97 | 0.97 | 1.05 | 1.08 | 1.11 | 1.15 | 1.19 | 1.23 | 1.27 | 1.31 | 1.35 | 1.38 | 1.41 |
| Other Gaseous Fuels | 0.47 | 0.44 | 0.46 | 0.46 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Total | 2.86 | 2.82 | 2.96 | 2.99 | 3.11 | 3.15 | 3.19 | 3.23 | 3.27 | 3.31 | 3.34 | 3.38 | 3.41 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Sales to Utilities | 0.48 | 0.43 | 0.52 | 0.53 | 0.55 | 0.57 | 0.59 | 0.61 | 0.62 | 0.64 | 0.66 | 0.67 | 0.68 |
| Generation for Own Use | 2.38 | 2.39 | 2.44 | 2.46 | 2.56 | 2.58 | 2.60 | 2.62 | 2.65 | 2.67 | 2.69 | 2.71 | 2.72 |

**Table 67. Electric Power Projections for EMM Region**
**Florida Reliability Coordinating Council**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 8.0 | 8.8 | 8.5 | 8.1 | 8.3 | 8.3 | 8.2 | 8.1 | 8.1 | 8.1 | 8.2 | 8.2 | 8.1 |
| Commercial | 6.4 | 7.2 | 7.1 | 6.9 | 7.0 | 7.0 | 6.9 | 6.9 | 6.9 | 7.0 | 7.0 | 7.0 | 7.0 |
| Industrial | 5.0 | 5.4 | 5.2 | 5.1 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| Transportation | 7.1 | 7.8 | 7.4 | 7.2 | 7.3 | 7.3 | 7.1 | 7.1 | 7.1 | 7.0 | 7.0 | 7.0 | 6.9 |
| All Sectors Average | 7.1 | 7.9 | 7.7 | 7.4 | 7.5 | 7.5 | 7.4 | 7.4 | 7.4 | 7.4 | 7.5 | 7.5 | 7.5 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 4.4 | 5.4 | 5.3 | 4.9 | 5.0 | 4.9 | 4.8 | 4.8 | 4.7 | 4.7 | 4.8 | 4.8 | 4.8 |
| Transmission | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 |
| Distribution | 2.2 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 2.1 | 2.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 0.72 | 0.70 | 0.71 | 0.72 | 0.69 | 0.71 | 0.74 | 0.76 | 0.75 | 0.75 | 0.77 | 0.79 | 0.79 |
| Natural Gas | 0.38 | 0.39 | 0.37 | 0.37 | 0.42 | 0.42 | 0.44 | 0.46 | 0.51 | 0.54 | 0.57 | 0.60 | 0.63 |
| Oil | 0.39 | 0.42 | 0.09 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.10 | 0.11 |
| Total | 1.48 | 1.51 | 1.17 | 1.17 | 1.18 | 1.22 | 1.26 | 1.30 | 1.36 | 1.40 | 1.45 | 1.49 | 1.53 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 31.65 | 29.48 | 26.93 | 27.15 | 26.91 | 27.84 | 28.77 | 29.69 | 30.58 | 31.21 | 32.27 | 33.10 | 33.94 |
| Carbon Dioxide | 116.07 | 108.11 | 98.76 | 99.54 | 98.66 | 102.09 | 105.50 | 108.88 | 112.12 | 114.43 | 118.32 | 121.36 | 124.46 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.22 | 0.21 | 0.17 | 0.17 | 0.15 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |

**Table 67. Electric Power Projections for EMM Region**
**Florida Reliability Coordinating Council**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 10.92 | 10.92 | 11.26 | 11.52 | 11.80 | 12.20 | 12.46 | 12.46 | 12.46 | 12.70 | 13.06 | 13.35 | 13.77 | 1.0% |
| Other Fossil Steam 2/ | 10.22 | 10.22 | 10.22 | 10.22 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | -1.0% |
| Combined Cycle | 17.78 | 19.04 | 20.10 | 20.91 | 21.82 | 22.94 | 23.87 | 24.77 | 25.91 | 26.79 | 27.73 | 28.31 | 29.04 | 7.4% |
| Combustion Turbine/Diesel | 10.16 | 10.16 | 10.24 | 10.24 | 10.44 | 10.74 | 10.98 | 11.17 | 11.47 | 11.77 | 11.96 | 12.12 | 12.36 | 2.0% |
| Nuclear Power | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 0.0% |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.65 | 0.69 | 0.75 | 1.0% |
| Distributed Generation 5/ | 0.04 | 0.07 | 0.09 | 0.12 | 0.14 | 0.21 | 0.28 | 0.34 | 0.37 | 0.44 | 0.51 | 0.58 | 0.65 | N/A |
| Total Capacity | 53.67 | 54.95 | 56.46 | 57.55 | 58.46 | 60.34 | 61.84 | 63.00 | 64.46 | 65.95 | 67.57 | 68.71 | 70.23 | 2.3% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | 4.39 | N/A |
| Combustion Turbine/Diesel | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | 7.00 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.55 | 0.55 | 0.89 | 1.15 | 1.43 | 1.83 | 2.09 | 2.09 | 2.09 | 2.33 | 2.69 | 2.98 | 3.40 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 7.58 | 8.84 | 9.90 | 10.70 | 11.62 | 12.74 | 13.67 | 14.57 | 15.71 | 16.59 | 17.53 | 18.11 | 18.84 | N/A |
| Combustion Turbine/Diesel | 0.58 | 0.58 | 0.66 | 0.66 | 0.86 | 1.16 | 1.40 | 1.59 | 1.89 | 2.19 | 2.54 | 2.70 | 2.93 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.07 | 0.11 | 0.16 | N/A |
| Distributed Generation 5/ | 0.04 | 0.07 | 0.09 | 0.12 | 0.14 | 0.21 | 0.28 | 0.34 | 0.37 | 0.44 | 0.51 | 0.58 | 0.65 | N/A |
| Total Unplanned Additions | 8.78 | 10.06 | 11.57 | 12.65 | 14.07 | 15.96 | 17.45 | 18.61 | 20.07 | 21.56 | 23.33 | 24.48 | 25.99 | N/A |
| Cumulative Total Additions | 15.78 | 17.06 | 18.57 | 19.65 | 21.08 | 22.96 | 24.45 | 25.61 | 27.07 | 28.57 | 30.33 | 31.48 | 32.99 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | N/A |
| Other Fossil Steam 3/ | 0.96 | 0.96 | 0.96 | 0.96 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | N/A |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combustion Turbine/Diesel | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.80 | 0.80 | 0.80 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 2.21 | 2.21 | 2.21 | 2.21 | 2.71 | 2.71 | 2.71 | 2.71 | 2.71 | 2.71 | 2.87 | 2.87 | 2.87 | N/A |
| Combined Heat and Power 8/ Capacity | | | | | | | | | | | | | | |

**Table 67. Electric Power Projections for EMM Region**
**Florida Reliability Coordinating Council**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Natural Gas | 0.24 | 0.25 | 0.26 | 0.26 | 0.27 | 0.28 | 0.28 | 0.29 | 0.30 | 0.31 | 0.32 | 0.34 | 0.35 | 2.7% |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.40 | 0.42 | 0.43 | 0.44 | 0.45 | 0.46 | 0.47 | 0.48 | 0.49 | 0.50 | 0.51 | 0.52 | 0.53 | 2.7% |
| Other | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | N/A |
| Total | 0.76 | 0.78 | 0.79 | 0.81 | 0.82 | 0.84 | 0.86 | 0.88 | 0.90 | 0.92 | 0.95 | 0.97 | 0.99 | 2.3% |
| Other End Use Generators | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 2.5% |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 122.01 | 123.96 | 125.98 | 128.22 | 129.80 | 131.71 | 133.69 | 136.03 | 137.60 | 139.65 | 141.75 | 144.42 | 146.41 | 1.7% |
| Commercial/Other | 96.94 | 99.85 | 102.73 | 105.69 | 108.73 | 111.92 | 115.17 | 118.47 | 121.78 | 125.14 | 128.46 | 131.92 | 135.49 | 2.7% |
| Industrial | 19.02 | 19.36 | 19.62 | 19.85 | 20.15 | 20.45 | 20.82 | 21.12 | 21.43 | 21.80 | 22.16 | 22.54 | 22.86 | 1.4% |
| Transportation | 1.46 | 1.50 | 1.55 | 1.59 | 1.65 | 1.70 | 1.76 | 1.82 | 1.88 | 1.95 | 2.01 | 2.08 | 2.14 | 2.9% |
| Total Sales | 239.43 | 244.68 | 249.88 | 255.35 | 260.32 | 265.79 | 271.44 | 277.44 | 282.69 | 288.53 | 294.38 | 300.96 | 306.90 | 2.1% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross Interregional Electricity Imports | 37.90 | 37.27 | 36.83 | 35.90 | 35.56 | 33.52 | 34.19 | 34.69 | 33.65 | 34.19 | 33.25 | 30.55 | 30.65 | -0.8% |
| Gross Interregional Electricity Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.01 | -5.0% |
| Purchases from Combined Heat and Power 8/ | 0.70 | 0.71 | 0.73 | 0.74 | 0.76 | 0.78 | 0.80 | 0.83 | 0.86 | 0.89 | 0.92 | 0.96 | 0.99 | 3.6% |
| Electric Power Sector Generation for Customers | 206.58 | 212.42 | 218.14 | 224.76 | 229.69 | 237.68 | 242.83 | 248.49 | 255.00 | 260.63 | 267.62 | 277.07 | 283.23 | 2.2% |
| Total Net Energy for Load | 245.17 | 250.40 | 255.69 | 261.40 | 266.01 | 271.97 | 277.82 | 284.01 | 289.51 | 295.70 | 301.78 | 308.58 | 314.86 | 1.8% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 81.65 | 81.65 | 84.18 | 86.13 | 88.22 | 91.20 | 93.13 | 93.16 | 93.19 | 94.96 | 97.66 | 99.83 | 102.94 | 2.2% |
| Petroleum | 8.19 | 7.76 | 7.23 | 7.19 | 6.76 | 5.67 | 4.95 | 5.29 | 5.03 | 5.09 | 4.86 | 5.04 | 4.26 | -9.0% |
| Natural Gas | 89.86 | 96.13 | 99.83 | 104.53 | 107.79 | 113.83 | 117.75 | 123.01 | 129.71 | 133.47 | 137.76 | 144.61 | 148.06 | 5.4% |
| Nuclear | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 0.1% |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.26 | 4.26 | 4.27 | 4.27 | 4.27 | 4.46 | 4.69 | 5.03 | 1.0% |
| Total Generation | 216.29 | 222.12 | 227.83 | 234.44 | 239.36 | 247.29 | 252.42 | 258.05 | 264.52 | 270.11 | 277.07 | 286.49 | 292.62 | 2.1% |
| Sales to Customers | 214.96 | 220.79 | 226.49 | 233.11 | 238.02 | 245.95 | 251.08 | 256.71 | 263.18 | 268.78 | 275.74 | 285.16 | 291.28 | 2.1% |
| Generation for Own Use | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 0.6% |
| Distributed Generation 5/ | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.09 | 0.12 | 0.15 | 0.16 | 0.19 | 0.22 | 0.25 | 0.29 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.0% |
| Petroleum | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.48 | 0.48 | 0.48 | 0.5% |
| Natural Gas | 1.44 | 1.47 | 1.51 | 1.55 | 1.59 | 1.65 | 1.70 | 1.77 | 1.83 | 1.91 | 1.98 | 2.07 | 2.14 | 3.4% |
| Other Gaseous Fuels | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.56 | 0.57 | 0.57 | 0.58 | 0.59 | 0.60 | 0.61 | 1.4% |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.0% |
| Total | 3.44 | 3.47 | 3.51 | 3.55 | 3.59 | 3.64 | 3.71 | 3.79 | 3.86 | 3.94 | 4.03 | 4.13 | 4.21 | 1.7% |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Sales to Utilities | 0.70 | 0.71 | 0.73 | 0.74 | 0.76 | 0.78 | 0.80 | 0.83 | 0.86 | 0.89 | 0.92 | 0.96 | 0.99 | 3.6% |
| Generation for Own Use | 2.74 | 2.76 | 2.78 | 2.81 | 2.84 | 2.87 | 2.91 | 2.96 | 3.00 | 3.05 | 3.11 | 3.17 | 3.22 | 1.2% |

**Table 67. Electric Power Projections for EMM Region**
**Florida Reliability Coordinating Council**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 8.2 | 8.2 | 8.2 | 8.2 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | -0.3% |
| Commercial | 7.1 | 7.1 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | 0.0% |
| Industrial | 5.2 | 5.3 | 5.3 | 5.3 | 5.2 | 5.3 | 5.2 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | -0.1% |
| Transportation | 6.9 | 6.9 | 6.8 | 6.8 | 6.7 | 6.6 | 6.5 | 6.4 | 6.4 | 6.3 | 6.3 | 6.2 | 6.1 | -1.0% |
| All Sectors Average | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | 7.5 | -0.2% |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 4.8 | 4.8 | 4.8 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.8 | 4.7 | 4.7 | -0.6% |
| Transmission | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 1.8% |
| Distribution | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 0.2% |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 0.79 | 0.79 | 0.81 | 0.83 | 0.84 | 0.87 | 0.89 | 0.89 | 0.89 | 0.90 | 0.93 | 0.94 | 0.97 | 1.4% |
| Natural Gas | 0.65 | 0.69 | 0.71 | 0.74 | 0.76 | 0.80 | 0.82 | 0.86 | 0.90 | 0.92 | 0.94 | 0.99 | 1.01 | 4.1% |
| Oil | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | -6.9% |
| Total | 1.56 | 1.59 | 1.63 | 1.67 | 1.71 | 1.76 | 1.79 | 1.83 | 1.87 | 1.91 | 1.95 | 2.02 | 2.06 | 1.3% |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 34.34 | 34.84 | 35.66 | 36.62 | 37.44 | 38.58 | 39.29 | 40.00 | 40.61 | 41.51 | 42.49 | 43.77 | 44.67 | 1.7% |
| Carbon Dioxide | 125.90 | 127.76 | 130.76 | 134.26 | 137.28 | 141.48 | 144.07 | 146.68 | 148.89 | 152.19 | 155.80 | 160.50 | 163.77 | 1.7% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | -0.8% |

**Table 67. Electric Power Projections for EMM Region**
**Florida Reliability Coordinating Council**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 68. Electric Power Projections for EMM Region**
**Southeastern Electric Reliability Council**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 71.53 | 71.64 | 71.52 | 71.26 | 71.26 | 71.27 | 71.27 | 71.16 | 71.16 | 71.51 | 72.60 | 73.94 | 74.32 |
| Other Fossil Steam 2/ | 19.01 | 19.01 | 18.98 | 18.78 | 18.76 | 13.59 | 7.19 | 7.19 | 7.14 | 7.14 | 7.10 | 7.10 | 7.10 |
| Combined Cycle | 7.41 | 11.75 | 21.07 | 28.31 | 28.83 | 28.83 | 28.83 | 28.83 | 28.83 | 31.35 | 34.69 | 38.36 | 40.10 |
| Combustion Turbine/Diesel | 19.15 | 23.30 | 29.14 | 30.43 | 30.43 | 29.85 | 29.65 | 28.39 | 28.39 | 28.30 | 28.52 | 28.86 | 29.01 |
| Nuclear Power | 31.88 | 32.05 | 32.08 | 32.20 | 32.48 | 32.84 | 32.91 | 33.04 | 33.04 | 33.05 | 33.21 | 33.21 | 33.36 |
| Pumped Storage/Other 3/ | 6.40 | 6.47 | 6.81 | 6.87 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 11.75 | 11.76 | 11.78 | 11.78 | 11.78 | 11.78 | 11.78 | 11.78 | 11.78 | 11.86 | 11.89 | 11.91 | 12.05 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Capacity | 167.13 | 175.96 | 191.38 | 199.64 | 200.47 | 195.10 | 188.57 | 187.33 | 187.28 | 190.15 | 194.95 | 200.32 | 202.88 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 9.18 | 15.88 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 5.88 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 15.39 | 23.31 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 1.44 | 2.78 | 3.16 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.52 | 5.86 | 9.53 | 11.27 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.40 | 0.74 | 0.89 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.11 | 0.13 | 0.27 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.12 | 7.80 | 13.18 | 15.59 |
| Cumulative Total Additions | 0.00 | 0.00 | 15.39 | 23.31 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 26.95 | 31.63 | 37.00 | 39.42 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.12 | 0.38 | 0.38 | 0.36 | 0.36 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.14 | 0.17 | 5.34 | 11.74 | 11.74 | 11.78 | 11.78 | 11.83 | 11.83 | 11.83 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.03 | 0.03 | 0.61 | 0.81 | 2.07 | 2.07 | 2.34 | 2.34 | 2.34 | 2.34 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.12 | 0.55 | 0.58 | 6.32 | 12.91 | 14.28 | 14.33 | 14.60 | 14.64 | 14.64 | 14.64 |
| Combined Heat and Power 8/ Capacity | | | | | | | | | | | | | |

**Table 68. Electric Power Projections for EMM Region**
**Southeastern Electric Reliability Council**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas | 4.22 | 4.30 | 4.45 | 4.56 | 4.64 | 4.78 | 4.92 | 5.06 | 5.20 | 5.34 | 5.45 | 5.57 | 5.67 |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 2.35 | 2.35 | 2.35 | 2.46 | 2.55 | 2.62 | 2.68 | 2.75 | 2.83 | 2.95 | 3.08 | 3.20 | 3.30 |
| Other | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Total | 7.73 | 7.82 | 7.96 | 8.19 | 8.36 | 8.57 | 8.76 | 8.98 | 9.20 | 9.45 | 9.70 | 9.93 | 10.14 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 0.55 | 0.56 | 0.57 | 0.57 | 0.59 | 0.60 | 0.62 | 0.64 | 0.67 | 0.70 | 0.74 | 0.74 | 0.75 |
| | | | | | | | | | | | | | |
| Electricity Demand | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 276.61 | 278.70 | 286.21 | 297.19 | 303.65 | 308.65 | 314.32 | 320.46 | 327.84 | 332.89 | 339.02 | 344.13 | 350.31 |
| Commercial/Other | 226.16 | 233.03 | 241.45 | 245.45 | 252.33 | 258.85 | 265.76 | 273.00 | 280.57 | 288.06 | 296.01 | 304.11 | 312.48 |
| Industrial | 256.18 | 240.75 | 224.21 | 235.54 | 240.69 | 243.28 | 248.57 | 255.37 | 263.07 | 268.73 | 276.53 | 283.58 | 290.20 |
| Transportation | 3.75 | 3.88 | 4.00 | 4.10 | 4.20 | 4.32 | 4.43 | 4.55 | 4.68 | 4.82 | 4.96 | 5.11 | 5.27 |
| Total Sales | 762.70 | 756.35 | 755.86 | 782.28 | 800.86 | 815.09 | 833.08 | 853.39 | 876.15 | 894.50 | 916.52 | 936.94 | 958.26 |
| | | | | | | | | | | | | | |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross Interregional Electricity Imports | 62.14 | 62.87 | 59.43 | 70.82 | 71.21 | 69.03 | 67.27 | 68.66 | 69.17 | 74.33 | 70.91 | 68.82 | 69.65 |
| Gross Interregional Electricity Exports | 46.57 | 55.44 | 60.80 | 66.96 | 66.47 | 60.68 | 59.54 | 58.70 | 56.07 | 54.78 | 52.29 | 49.33 | 46.51 |
| Purchases from Combined Heat and Power 8/ | 8.88 | 8.27 | 9.72 | 10.33 | 10.79 | 11.41 | 11.99 | 12.62 | 13.23 | 13.93 | 14.57 | 15.18 | 15.72 |
| Electric Power Sector Generation for Customers | 792.82 | 796.98 | 782.56 | 802.44 | 817.34 | 828.25 | 845.24 | 863.37 | 881.37 | 893.18 | 916.19 | 938.29 | 955.30 |
| Total Net Energy for Load | 817.27 | 812.68 | 790.90 | 816.63 | 832.87 | 848.00 | 864.96 | 885.95 | 907.70 | 926.66 | 949.38 | 972.97 | 994.16 |
| | | | | | | | | | | | | | |
| Generation by Fuel Type | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 467.21 | 451.38 | 437.33 | 443.65 | 455.22 | 469.54 | 485.51 | 497.96 | 501.83 | 506.73 | 516.18 | 526.94 | 531.11 |
| Petroleum | 10.27 | 16.10 | 3.53 | 2.70 | 2.82 | 2.67 | 2.49 | 2.53 | 3.10 | 2.98 | 3.10 | 3.02 | 3.16 |
| Natural Gas | 63.27 | 72.43 | 81.14 | 91.42 | 93.97 | 86.28 | 87.75 | 84.70 | 99.78 | 105.85 | 117.49 | 126.38 | 137.82 |
| Nuclear | 246.14 | 248.06 | 247.39 | 248.62 | 251.28 | 254.79 | 255.61 | 264.47 | 264.82 | 265.24 | 267.03 | 267.39 | 268.97 |
| Pumped Storage/Other 3/ | -1.12 | -3.95 | -0.14 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 |
| Renewable Sources 4/ | 20.69 | 27.22 | 32.35 | 37.22 | 38.30 | 38.61 | 38.70 | 38.57 | 38.65 | 39.08 | 39.14 | 39.16 | 39.61 |
| Total Generation | 806.46 | 811.24 | 801.60 | 823.43 | 841.42 | 851.72 | 869.88 | 888.07 | 908.01 | 919.71 | 942.77 | 962.72 | 980.51 |
| Sales to Customers | 804.23 | 808.03 | 797.30 | 819.11 | 837.08 | 847.38 | 865.52 | 883.69 | 903.64 | 915.34 | 938.40 | 958.35 | 976.14 |
| Generation for Own Use | 2.22 | 3.20 | 4.30 | 4.33 | 4.35 | 4.34 | 4.36 | 4.38 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 4.28 | 4.27 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 |
| Petroleum | 1.91 | 1.87 | 2.05 | 2.05 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 |
| Natural Gas | 25.03 | 24.95 | 26.93 | 27.77 | 28.59 | 29.65 | 30.69 | 31.74 | 32.76 | 33.82 | 34.68 | 35.53 | 36.30 |
| Other Gaseous Fuels | 2.02 | 1.90 | 1.98 | 1.98 | 2.38 | 2.38 | 2.38 | 2.38 | 2.38 | 2.38 | 2.38 | 2.38 | 2.38 |
| Renewable Sources 4/ | 10.36 | 10.35 | 10.25 | 10.70 | 11.05 | 11.31 | 11.53 | 11.83 | 12.14 | 12.57 | 13.09 | 13.56 | 13.97 |
| Other | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 |
| Total | 48.52 | 48.26 | 50.41 | 51.70 | 53.26 | 54.58 | 55.83 | 57.18 | 58.51 | 60.00 | 61.38 | 62.71 | 63.88 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 1.41 | 1.41 | 1.44 | 1.45 | 1.46 | 1.48 | 1.51 | 1.54 | 1.58 | 1.62 | 1.68 | 1.68 | 1.69 |
| | | | | | | | | | | | | | |
| Sales to Utilities | 8.88 | 8.27 | 9.72 | 10.33 | 10.79 | 11.41 | 11.99 | 12.62 | 13.23 | 13.93 | 14.57 | 15.18 | 15.72 |
| Generation for Own Use | 41.06 | 41.40 | 42.12 | 42.82 | 43.93 | 44.65 | 45.36 | 46.10 | 46.85 | 47.69 | 48.49 | 49.21 | 49.85 |

**Table 68. Electric Power Projections for EMM Region**
**Southeastern Electric Reliability Council**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 7.7 | 7.8 | 7.6 | 7.3 | 7.5 | 7.5 | 7.3 | 7.2 | 7.1 | 7.1 | 7.1 | 7.2 | 7.1 |
| Commercial | 6.6 | 6.7 | 6.6 | 6.5 | 6.6 | 6.6 | 6.5 | 6.3 | 6.3 | 6.3 | 6.3 | 6.4 | 6.4 |
| Industrial | 4.2 | 4.3 | 4.1 | 4.1 | 4.1 | 4.2 | 4.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Transportation | 6.6 | 6.7 | 6.4 | 6.3 | 6.4 | 6.4 | 6.2 | 6.1 | 6.0 | 5.9 | 6.0 | 5.9 | 5.9 |
| All Sectors Average | 6.2 | 6.3 | 6.2 | 6.1 | 6.2 | 6.2 | 6.1 | 6.0 | 5.9 | 5.9 | 5.9 | 6.0 | 5.9 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 4.0 | 4.2 | 4.2 | 4.0 | 4.0 | 4.0 | 3.9 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| Transmission | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 |
| Distribution | 1.8 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 4.85 | 4.71 | 4.35 | 4.42 | 4.53 | 4.67 | 4.84 | 4.96 | 5.01 | 5.06 | 5.14 | 5.23 | 5.27 |
| Natural Gas | 0.72 | 0.74 | 0.69 | 0.74 | 0.76 | 0.70 | 0.72 | 0.69 | 0.82 | 0.85 | 0.93 | 0.97 | 1.05 |
| Oil | 0.14 | 0.19 | 0.09 | 0.09 | 0.11 | 0.10 | 0.09 | 0.09 | 0.11 | 0.10 | 0.10 | 0.09 | 0.09 |
| Total | 5.71 | 5.64 | 5.13 | 5.25 | 5.40 | 5.47 | 5.65 | 5.75 | 5.93 | 6.01 | 6.17 | 6.29 | 6.42 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 141.25 | 138.07 | 133.68 | 136.33 | 139.87 | 142.80 | 147.54 | 150.76 | 154.07 | 156.01 | 159.64 | 163.00 | 165.42 |
| Carbon Dioxide | 517.90 | 506.26 | 490.17 | 499.89 | 512.85 | 523.59 | 540.99 | 552.78 | 564.93 | 572.04 | 585.34 | 597.66 | 606.54 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.85 | 0.79 | 0.87 | 0.88 | 0.78 | 0.80 | 0.82 | 0.86 | 0.87 | 0.88 | 0.89 | 0.89 | 0.90 |

**Table 68. Electric Power Projections for EMM Region**
**Southeastern Electric Reliability Council**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 75.80 | 76.71 | 80.55 | 82.70 | 85.54 | 87.98 | 90.47 | 92.57 | 93.78 | 97.47 | 100.30 | 103.12 | 106.74 | 1.7% |
| Other Fossil Steam 2/ | 7.10 | 6.79 | 6.79 | 6.79 | 6.71 | 6.71 | 6.61 | 6.61 | 6.61 | 6.61 | 6.61 | 6.61 | 6.61 | -4.3% |
| Combined Cycle | 43.02 | 45.65 | 46.20 | 46.46 | 47.16 | 47.85 | 48.59 | 49.24 | 51.33 | 51.53 | 52.33 | 52.63 | 53.02 | 6.5% |
| Combustion Turbine/Diesel | 29.19 | 29.42 | 29.60 | 29.69 | 30.14 | 30.52 | 31.30 | 31.97 | 32.95 | 33.87 | 34.68 | 34.87 | 35.38 | 1.8% |
| Nuclear Power | 33.65 | 34.00 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 0.3% |
| Pumped Storage/Other 3/ | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 0.3% |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 12.11 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.36 | 12.42 | 12.48 | 12.56 | 0.3% |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Capacity | 207.81 | 211.76 | 216.56 | 219.07 | 222.97 | 226.48 | 230.38 | 233.80 | 238.08 | 243.00 | 247.49 | 250.86 | 255.46 | 1.6% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | 16.40 | N/A |
| Combustion Turbine/Diesel | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | 7.10 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | 23.83 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 4.64 | 6.07 | 9.91 | 12.06 | 14.90 | 17.87 | 20.35 | 22.45 | 23.66 | 27.36 | 30.18 | 33.00 | 36.88 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 14.19 | 16.81 | 17.37 | 17.63 | 18.33 | 19.02 | 19.76 | 20.41 | 22.50 | 22.70 | 23.50 | 23.80 | 24.19 | N/A |
| Combustion Turbine/Diesel | 1.07 | 1.30 | 1.48 | 1.57 | 2.02 | 2.40 | 3.17 | 3.85 | 4.83 | 5.75 | 6.55 | 6.75 | 7.26 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.33 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 | 0.58 | 0.64 | 0.70 | 0.78 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Unplanned Additions | 20.23 | 24.67 | 29.24 | 31.75 | 35.74 | 39.77 | 43.77 | 47.19 | 51.47 | 56.38 | 60.88 | 64.25 | 69.11 | N/A |
| Cumulative Total Additions | 44.05 | 48.50 | 53.07 | 55.58 | 59.56 | 63.59 | 67.60 | 71.02 | 75.30 | 80.21 | 84.70 | 88.08 | 92.94 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 0.47 | 1.00 | 1.00 | 1.00 | 1.00 | 1.52 | 1.52 | 1.52 | 1.52 | 1.52 | 1.52 | 1.52 | 1.78 | N/A |
| Other Fossil Steam 3/ | 11.83 | 12.14 | 12.14 | 12.14 | 12.21 | 12.21 | 12.32 | 12.32 | 12.32 | 12.32 | 12.32 | 12.32 | 12.32 | N/A |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combustion Turbine/Diesel | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 14.64 | 15.47 | 15.47 | 15.47 | 15.55 | 16.07 | 16.18 | 16.18 | 16.18 | 16.18 | 16.18 | 16.18 | 16.44 | N/A |
| Combined Heat and Power 8/ Capacity | | | | | | | | | | | | | | |

**Table 68. Electric Power Projections for EMM Region**
**Southeastern Electric Reliability Council**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 0.0% |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Natural Gas | 5.78 | 5.89 | 6.02 | 6.16 | 6.31 | 6.50 | 6.69 | 6.91 | 7.15 | 7.41 | 7.66 | 7.95 | 8.22 | 2.7% |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 3.40 | 3.50 | 3.59 | 3.66 | 3.75 | 3.84 | 3.93 | 4.02 | 4.10 | 4.20 | 4.29 | 4.40 | 4.50 | 2.7% |
| Other | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | N/A |
| Total | 10.34 | 10.55 | 10.77 | 10.99 | 11.22 | 11.50 | 11.79 | 12.10 | 12.42 | 12.78 | 13.12 | 13.52 | 13.88 | 2.4% |
| | | | | | | | | | | | | | | |
| Other End Use Generators | 0.75 | 0.75 | 0.77 | 0.78 | 0.80 | 0.81 | 0.83 | 0.86 | 0.89 | 0.92 | 0.95 | 0.98 | 1.01 | 2.5% |
| | | | | | | | | | | | | | | |
| Electricity Demand | | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 354.21 | 359.37 | 364.69 | 370.63 | 374.62 | 379.61 | 384.81 | 390.88 | 394.82 | 399.99 | 405.55 | 412.55 | 417.83 | 1.7% |
| Commercial/Other | 320.86 | 329.41 | 337.78 | 346.21 | 354.82 | 363.69 | 372.71 | 381.59 | 390.41 | 399.07 | 407.64 | 416.20 | 424.96 | 2.5% |
| Industrial | 295.43 | 300.59 | 304.74 | 308.31 | 312.73 | 317.25 | 322.72 | 327.20 | 331.84 | 337.47 | 342.90 | 348.74 | 353.76 | 1.6% |
| Transportation | 5.41 | 5.57 | 5.73 | 5.89 | 6.08 | 6.27 | 6.46 | 6.68 | 6.90 | 7.12 | 7.34 | 7.57 | 7.78 | 2.9% |
| Total Sales | 975.91 | 994.94 | 1012.95 | 1031.03 | 1048.25 | 1066.81 | 1086.71 | 1106.36 | 1123.97 | 1143.65 | 1163.43 | 1185.06 | 1204.34 | 2.0% |
| | | | | | | | | | | | | | | |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross Interregional Electricity Imports | 65.16 | 59.80 | 53.30 | 47.76 | 46.69 | 39.78 | 40.20 | 36.36 | 40.42 | 36.16 | 38.09 | 27.31 | 29.44 | -3.1% |
| Gross Interregional Electricity Exports | 47.08 | 46.40 | 47.43 | 45.00 | 46.44 | 44.31 | 44.73 | 44.15 | 42.86 | 44.26 | 44.79 | 45.58 | 49.25 | -0.5% |
| Purchases from Combined Heat and Power 8/ | 16.25 | 16.79 | 17.33 | 17.87 | 18.45 | 19.10 | 19.86 | 20.65 | 21.41 | 22.33 | 23.22 | 24.27 | 25.20 | 4.8% |
| Electric Power Sector Generation for Customers | 978.36 | 1001.77 | 1027.40 | 1048.36 | 1067.63 | 1090.50 | 1111.14 | 1134.03 | 1147.23 | 1172.31 | 1191.59 | 1223.44 | 1244.55 | 1.9% |
| Total Net Energy for Load | 1012.68 | 1031.96 | 1050.60 | 1068.99 | 1086.33 | 1105.08 | 1126.46 | 1146.89 | 1166.20 | 1186.55 | 1208.11 | 1229.44 | 1249.94 | 1.8% |
| | | | | | | | | | | | | | | |
| Generation by Fuel Type | | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 542.46 | 549.47 | 576.18 | 592.07 | 612.14 | 629.38 | 647.84 | 663.95 | 673.70 | 699.75 | 720.36 | 741.34 | 766.73 | 2.2% |
| Petroleum | 3.14 | 3.08 | 2.86 | 3.00 | 2.86 | 2.71 | 2.70 | 2.77 | 2.71 | 2.77 | 2.64 | 2.77 | 2.76 | -7.1% |
| Natural Gas | 145.90 | 158.65 | 155.32 | 160.56 | 158.89 | 165.20 | 166.78 | 173.54 | 176.41 | 175.15 | 172.78 | 184.31 | 179.28 | 3.8% |
| Nuclear | 271.80 | 274.98 | 277.05 | 277.28 | 277.44 | 277.51 | 277.58 | 277.65 | 277.68 | 277.68 | 277.68 | 277.68 | 277.68 | 0.5% |
| Pumped Storage/Other 3/ | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -12.2% |
| Renewable Sources 4/ | 39.79 | 40.33 | 40.25 | 40.23 | 40.22 | 40.20 | 40.19 | 40.18 | 40.20 | 40.58 | 40.95 | 41.28 | 41.71 | 1.8% |
| Total Generation | 1002.93 | 1026.34 | 1051.48 | 1072.97 | 1091.38 | 1114.84 | 1134.92 | 1157.92 | 1170.53 | 1195.76 | 1214.24 | 1247.21 | 1267.99 | 1.9% |
| Sales to Customers | 998.56 | 1021.97 | 1047.11 | 1068.60 | 1087.01 | 1110.47 | 1130.55 | 1153.55 | 1166.17 | 1191.39 | 1209.87 | 1242.85 | 1263.63 | 1.9% |
| Generation for Own Use | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 1.3% |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| | | | | | | | | | | | | | | |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 4.28 | 0.0% |
| Petroleum | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.04 | 2.05 | 2.05 | 2.06 | 2.07 | 2.08 | 2.09 | 0.5% |
| Natural Gas | 37.11 | 37.93 | 38.89 | 39.96 | 41.08 | 42.39 | 43.83 | 45.54 | 47.22 | 49.17 | 51.03 | 53.21 | 55.15 | 3.4% |
| Other Gaseous Fuels | 2.38 | 2.38 | 2.38 | 2.38 | 2.38 | 2.38 | 2.42 | 2.46 | 2.47 | 2.51 | 2.55 | 2.61 | 2.63 | 1.4% |
| Renewable Sources 4/ | 14.34 | 14.72 | 15.06 | 15.36 | 15.68 | 16.04 | 16.41 | 16.74 | 17.06 | 17.44 | 17.81 | 18.21 | 18.60 | 2.5% |
| Other | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 4.92 | 0.0% |
| Total | 65.06 | 66.27 | 67.56 | 68.93 | 70.38 | 72.04 | 73.91 | 75.99 | 78.01 | 80.38 | 82.66 | 85.32 | 87.67 | 2.5% |
| | | | | | | | | | | | | | | |
| Other End Use Generators | 1.70 | 1.71 | 1.73 | 1.75 | 1.77 | 1.79 | 1.81 | 1.85 | 1.89 | 1.93 | 1.98 | 2.02 | 2.07 | 1.6% |
| | | | | | | | | | | | | | | |
| Sales to Utilities | 16.25 | 16.79 | 17.33 | 17.87 | 18.45 | 19.10 | 19.86 | 20.65 | 21.41 | 22.33 | 23.22 | 24.27 | 25.20 | 4.8% |
| Generation for Own Use | 50.51 | 51.18 | 51.96 | 52.81 | 53.70 | 54.72 | 55.86 | 57.20 | 58.49 | 59.99 | 61.42 | 63.08 | 64.55 | 1.9% |

**Table 68. Electric Power Projections for EMM Region**
**Southeastern Electric Reliability Council**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.3 | 7.3 | 7.3 | 7.3 | -0.3% |
| Commercial | 6.4 | 6.4 | 6.4 | 6.5 | 6.5 | 6.5 | 6.5 | 6.6 | 6.6 | 6.6 | 6.6 | 6.6 | 6.7 | 0.0% |
| Industrial | 4.0 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.2 | 4.2 | 4.2 | 4.2 | -0.1% |
| Transportation | 5.9 | 5.8 | 5.8 | 5.8 | 5.7 | 5.7 | 5.7 | 5.6 | 5.5 | 5.5 | 5.5 | 5.4 | 5.4 | -0.9% |
| All Sectors Average | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | -0.1% |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.8 | 3.8 | 3.8 | -0.5% |
| Transmission | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.4% |
| Distribution | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 0.2% |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 5.36 | 5.41 | 5.64 | 5.77 | 5.94 | 6.07 | 6.23 | 6.37 | 6.45 | 6.67 | 6.84 | 7.02 | 7.22 | 1.8% |
| Natural Gas | 1.10 | 1.18 | 1.15 | 1.19 | 1.17 | 1.22 | 1.23 | 1.27 | 1.28 | 1.27 | 1.25 | 1.34 | 1.30 | 2.4% |
| Oil | 0.09 | 0.09 | 0.09 | 0.09 | 0.08 | 0.09 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.09 | 0.08 | -3.4% |
| Total | 6.55 | 6.68 | 6.87 | 7.05 | 7.19 | 7.38 | 7.54 | 7.73 | 7.81 | 8.02 | 8.17 | 8.44 | 8.61 | 1.8% |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 168.84 | 171.53 | 177.29 | 181.70 | 186.15 | 190.67 | 195.25 | 199.94 | 202.43 | 208.47 | 212.99 | 219.37 | 224.55 | 2.0% |
| Carbon Dioxide | 619.08 | 628.93 | 650.05 | 666.24 | 682.56 | 699.13 | 715.91 | 733.11 | 742.24 | 764.38 | 780.95 | 804.36 | 823.34 | 2.0% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.90 | 0.90 | 0.90 | 0.91 | 0.92 | 0.92 | 0.93 | 0.93 | 0.94 | 0.95 | 0.95 | 0.96 | 0.97 | 0.8% |

**Table 68. Electric Power Projections for EMM Region**
**Southeastern Electric Reliability Council**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 69. Electric Power Projections for EMM Region**
**Southwest Power Pool**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 21.60 | 21.60 | 21.60 | 21.60 | 21.60 | 21.60 | 21.60 | 21.07 | 20.59 | 20.59 | 20.96 | 20.96 | 21.33 |
| Other Fossil Steam 2/ | 13.36 | 13.23 | 13.09 | 13.01 | 12.96 | 11.03 | 9.08 | 7.37 | 5.74 | 4.45 | 4.45 | 4.42 | 4.40 |
| Combined Cycle | 1.95 | 3.65 | 9.55 | 11.08 | 11.08 | 11.08 | 11.08 | 10.78 | 10.78 | 10.78 | 11.32 | 11.32 | 13.05 |
| Combustion Turbine/Diesel | 4.81 | 5.50 | 6.72 | 7.05 | 7.05 | 6.65 | 6.54 | 6.54 | 6.54 | 6.26 | 7.59 | 7.19 | 8.88 |
| Nuclear Power | 1.17 | 1.17 | 1.17 | 1.17 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 |
| Pumped Storage/Other 3/ | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 2.47 | 2.67 | 2.68 | 2.68 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.70 | 2.70 | 2.70 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Capacity | 45.87 | 48.31 | 55.32 | 57.10 | 57.06 | 54.73 | 52.67 | 50.12 | 48.02 | 46.45 | 48.70 | 48.27 | 52.04 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 5.91 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 1.23 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 7.16 | 9.17 | 9.17 | 9.17 | 9.18 | 9.18 | 9.18 | 9.18 | 9.18 | 9.18 | 9.19 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.37 | 0.37 | 0.74 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.54 | 0.54 | 2.28 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.33 | 1.33 | 3.41 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.25 | 2.25 | 6.42 |
| Cumulative Total Additions | 0.00 | 0.00 | 7.16 | 9.17 | 9.17 | 9.17 | 9.18 | 9.18 | 9.18 | 9.18 | 11.43 | 11.43 | 15.61 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.53 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.02 | 0.10 | 0.15 | 2.10 | 4.05 | 5.77 | 7.40 | 8.68 | 8.68 | 8.72 | 8.73 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.16 | 0.16 | 0.56 | 0.67 | 0.67 | 0.67 | 0.95 | 0.95 | 1.35 | 1.74 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.02 | 0.25 | 0.30 | 2.66 | 4.73 | 7.27 | 9.38 | 10.94 | 10.94 | 11.38 | 11.79 |
| Combined Heat and Power 8/ | | | | | | | | | | | | | |
| Capacity | | | | | | | | | | | | | |

**Table 69. Electric Power Projections for EMM Region**
**Southwest Power Pool**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas | 0.28 | 0.28 | 0.29 | 0.30 | 0.30 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 | 0.36 | 0.37 |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.45 | 0.45 | 0.45 | 0.48 | 0.49 | 0.51 | 0.52 | 0.53 | 0.55 | 0.57 | 0.60 | 0.62 | 0.64 |
| Other | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Total | 0.87 | 0.88 | 0.89 | 0.92 | 0.94 | 0.96 | 0.98 | 1.00 | 1.03 | 1.06 | 1.09 | 1.12 | 1.15 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.13 | 0.14 | 0.14 | 0.14 | 0.14 |
| | | | | | | | | | | | | | |
| Electricity Demand | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 57.28 | 58.00 | 60.34 | 62.77 | 64.20 | 65.37 | 66.68 | 67.90 | 69.52 | 70.46 | 72.09 | 73.33 | 74.93 |
| Commercial/Other | 60.96 | 62.60 | 64.94 | 66.16 | 67.88 | 69.40 | 70.86 | 72.09 | 73.46 | 74.57 | 76.19 | 77.74 | 79.48 |
| Industrial | 49.37 | 46.40 | 44.02 | 46.24 | 47.36 | 47.93 | 49.22 | 50.74 | 52.31 | 53.35 | 54.80 | 56.14 | 57.39 |
| Transportation | 0.87 | 0.89 | 0.93 | 0.95 | 0.97 | 1.00 | 1.03 | 1.05 | 1.08 | 1.11 | 1.14 | 1.18 | 1.21 |
| Total Sales | 168.48 | 167.89 | 170.22 | 176.11 | 180.42 | 183.70 | 187.79 | 191.78 | 196.38 | 199.49 | 204.22 | 208.40 | 213.02 |
| | | | | | | | | | | | | | |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross Interregional Electricity Imports | 20.92 | 22.84 | 18.21 | 16.93 | 14.38 | 16.03 | 16.95 | 21.82 | 22.66 | 24.75 | 23.50 | 24.96 | 19.62 |
| Gross Interregional Electricity Exports | 20.78 | 20.53 | 18.07 | 19.99 | 19.69 | 20.95 | 21.08 | 21.00 | 19.81 | 19.64 | 17.51 | 15.96 | 14.72 |
| Purchases from Combined Heat and Power 8/ | 0.53 | 0.50 | 0.60 | 0.62 | 0.64 | 0.68 | 0.71 | 0.74 | 0.78 | 0.81 | 0.84 | 0.87 | 0.89 |
| Electric Power Sector Generation for Customers | 177.35 | 175.38 | 179.13 | 186.17 | 193.94 | 196.43 | 199.87 | 199.39 | 200.81 | 201.79 | 206.47 | 207.19 | 217.02 |
| Total Net Energy for Load | 178.03 | 178.19 | 179.87 | 183.73 | 189.27 | 192.18 | 196.45 | 200.96 | 204.44 | 207.72 | 213.30 | 217.05 | 222.81 |
| | | | | | | | | | | | | | |
| Generation by Fuel Type | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 127.01 | 125.80 | 137.48 | 139.26 | 145.21 | 150.15 | 154.09 | 154.67 | 150.60 | 150.72 | 153.54 | 153.59 | 156.64 |
| Petroleum | 0.79 | 1.06 | 0.32 | 0.23 | 0.32 | 0.31 | 0.31 | 0.33 | 0.41 | 0.43 | 0.43 | 0.44 | 0.40 |
| Natural Gas | 40.63 | 38.39 | 32.16 | 39.28 | 39.76 | 37.61 | 37.28 | 35.94 | 42.85 | 43.61 | 44.88 | 46.12 | 51.84 |
| Nuclear | 9.06 | 10.35 | 9.74 | 9.74 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 |
| Pumped Storage/Other 3/ | -0.13 | -0.13 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 |
| Renewable Sources 4/ | 4.62 | 5.06 | 5.22 | 5.67 | 5.76 | 5.82 | 5.87 | 5.88 | 5.88 | 5.88 | 5.90 | 5.91 | 5.92 |
| Total Generation | 181.97 | 180.53 | 184.88 | 194.13 | 200.84 | 203.69 | 207.34 | 206.62 | 209.53 | 210.44 | 214.54 | 215.86 | 224.59 |
| Sales to Customers | 181.53 | 179.69 | 183.70 | 192.96 | 199.67 | 202.50 | 206.14 | 205.42 | 208.34 | 209.25 | 213.34 | 214.66 | 223.40 |
| Generation for Own Use | 0.45 | 0.85 | 1.18 | 1.17 | 1.18 | 1.19 | 1.19 | 1.20 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 0.62 | 0.61 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 |
| Petroleum | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Natural Gas | 1.81 | 1.80 | 1.95 | 2.01 | 2.07 | 2.14 | 2.22 | 2.30 | 2.37 | 2.45 | 2.51 | 2.57 | 2.63 |
| Other Gaseous Fuels | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Renewable Sources 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |
| Other | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Total | 3.08 | 3.07 | 3.22 | 3.28 | 3.34 | 3.42 | 3.50 | 3.57 | 3.65 | 3.72 | 3.79 | 3.85 | 3.90 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Sales to Utilities | 0.53 | 0.50 | 0.60 | 0.62 | 0.64 | 0.68 | 0.71 | 0.74 | 0.78 | 0.81 | 0.84 | 0.87 | 0.89 |
| Generation for Own Use | 2.55 | 2.57 | 2.62 | 2.66 | 2.70 | 2.75 | 2.79 | 2.83 | 2.87 | 2.91 | 2.95 | 2.98 | 3.02 |

**Table 69. Electric Power Projections for EMM Region**
**Southwest Power Pool**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 7.5 | 7.6 | 7.6 | 7.4 | 7.4 | 7.3 | 7.1 | 6.9 | 7.0 | 7.2 | 7.2 | 7.4 | 7.0 |
| Commercial | 6.2 | 6.4 | 6.5 | 6.3 | 6.3 | 6.1 | 6.0 | 5.8 | 5.9 | 6.2 | 6.1 | 6.4 | 6.0 |
| Industrial | 4.0 | 4.2 | 4.2 | 4.1 | 4.1 | 4.1 | 4.0 | 3.9 | 4.0 | 4.2 | 4.1 | 4.3 | 4.0 |
| Transportation | 5.9 | 6.1 | 6.0 | 6.0 | 5.9 | 5.8 | 5.7 | 5.6 | 5.6 | 5.8 | 5.8 | 5.9 | 5.6 |
| All Sectors Average | 6.0 | 6.2 | 6.3 | 6.1 | 6.1 | 6.0 | 5.8 | 5.7 | 5.8 | 6.0 | 6.0 | 6.2 | 5.8 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 3.2 | 3.6 | 3.7 | 3.6 | 3.6 | 3.5 | 3.4 | 3.3 | 3.4 | 3.7 | 3.7 | 3.9 | 3.6 |
| Transmission | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Distribution | 2.3 | 2.2 | 2.1 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 1.38 | 1.37 | 1.45 | 1.47 | 1.54 | 1.59 | 1.63 | 1.64 | 1.60 | 1.60 | 1.63 | 1.63 | 1.65 |
| Natural Gas | 0.44 | 0.40 | 0.28 | 0.33 | 0.33 | 0.31 | 0.31 | 0.29 | 0.35 | 0.35 | 0.36 | 0.37 | 0.40 |
| Oil | 0.03 | 0.04 | 0.02 | 0.04 | 0.03 | 0.03 | 0.04 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Total | 1.85 | 1.81 | 1.76 | 1.84 | 1.90 | 1.93 | 1.98 | 1.97 | 1.99 | 2.00 | 2.03 | 2.04 | 2.09 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 49.12 | 47.44 | 46.41 | 47.76 | 49.71 | 50.86 | 52.05 | 52.02 | 51.76 | 51.90 | 52.71 | 52.89 | 54.16 |
| Carbon Dioxide | 180.11 | 173.93 | 170.16 | 175.13 | 182.27 | 186.47 | 190.86 | 190.74 | 189.79 | 190.31 | 193.28 | 193.91 | 198.60 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.58 | 0.54 | 0.25 | 0.25 | 0.26 | 0.27 | 0.28 | 0.28 | 0.27 | 0.27 | 0.27 | 0.27 | 0.28 |

**Table 69. Electric Power Projections for EMM Region**
**Southwest Power Pool**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ | | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 21.33 | 22.04 | 22.04 | 22.24 | 22.24 | 22.24 | 22.24 | 22.24 | 22.16 | 22.16 | 22.16 | 22.25 | 24.22 | 0.5% |
| Other Fossil Steam 2/ | 4.36 | 4.36 | 4.36 | 4.36 | 4.36 | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 | -4.6% |
| Combined Cycle | 13.05 | 14.86 | 14.86 | 14.86 | 14.86 | 15.24 | 15.24 | 15.47 | 15.58 | 15.85 | 15.85 | 15.85 | 16.06 | 6.4% |
| Combustion Turbine/Diesel | 8.88 | 10.54 | 10.40 | 10.91 | 10.91 | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 11.09 | 3.0% |
| Nuclear Power | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 0.0% |
| Pumped Storage/Other 3/ | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 2.70 | 2.71 | 2.71 | 2.71 | 2.71 | 2.72 | 2.72 | 2.72 | 2.72 | 2.73 | 2.73 | 2.73 | 2.73 | 0.1% |
| Distributed Generation 5/ | 0.00 | 0.02 | 0.02 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | N/A |
| Total Capacity | 52.01 | 56.21 | 56.07 | 56.81 | 56.81 | 57.21 | 57.22 | 57.45 | 57.49 | 57.76 | 57.76 | 57.85 | 60.14 | 0.9% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | 7.43 | N/A |
| Combustion Turbine/Diesel | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 9.19 | 9.19 | 9.19 | 9.20 | 9.20 | 9.20 | 9.20 | 9.21 | 9.21 | 9.21 | 9.21 | 9.22 | 9.22 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.74 | 1.45 | 1.45 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 1.73 | 3.71 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 2.28 | 4.09 | 4.09 | 4.09 | 4.09 | 4.47 | 4.47 | 4.70 | 4.81 | 5.08 | 5.08 | 5.08 | 5.28 | N/A |
| Combustion Turbine/Diesel | 3.41 | 5.07 | 5.07 | 5.59 | 5.59 | 5.66 | 5.66 | 5.66 | 5.66 | 5.66 | 5.66 | 5.66 | 5.77 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Distributed Generation 5/ | 0.00 | 0.02 | 0.02 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | N/A |
| Total Unplanned Additions | 6.42 | 10.63 | 10.63 | 11.36 | 11.36 | 11.82 | 11.82 | 12.05 | 12.16 | 12.42 | 12.42 | 12.51 | 14.80 | N/A |
| Cumulative Total Additions | 15.61 | 19.82 | 19.82 | 20.55 | 20.56 | 21.02 | 21.02 | 21.25 | 21.36 | 21.64 | 21.64 | 21.73 | 24.01 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | N/A |
| Other Fossil Steam 3/ | 8.77 | 8.77 | 8.77 | 8.77 | 8.77 | 8.83 | 8.83 | 8.83 | 8.83 | 8.83 | 8.83 | 8.83 | 8.83 | N/A |
| Combined Cycle | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | N/A |
| Combustion Turbine/Diesel | 1.74 | 1.74 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 11.82 | 11.82 | 11.97 | 11.97 | 11.97 | 12.02 | 12.02 | 12.02 | 12.09 | 12.09 | 12.09 | 12.09 | 12.09 | N/A |
| Combined Heat and Power 8/ | | | | | | | | | | | | | | |
| Capacity | | | | | | | | | | | | | | |
| Coal | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.0% |

**Table 69. Electric Power Projections for EMM Region**
**Southwest Power Pool**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Natural Gas | 0.38 | 0.38 | 0.39 | 0.40 | 0.41 | 0.42 | 0.44 | 0.45 | 0.47 | 0.48 | 0.50 | 0.52 | 0.54 | 2.7% |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.66 | 0.68 | 0.69 | 0.71 | 0.73 | 0.74 | 0.76 | 0.78 | 0.80 | 0.81 | 0.83 | 0.85 | 0.87 | 2.7% |
| Other | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | N/A |
| Total | 1.18 | 1.20 | 1.23 | 1.25 | 1.28 | 1.31 | 1.34 | 1.37 | 1.40 | 1.44 | 1.47 | 1.51 | 1.55 | 2.4% |
| Other End Use Generators | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.20 | 2.5% |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 75.82 | 77.12 | 78.40 | 79.84 | 80.79 | 82.03 | 83.27 | 84.64 | 85.51 | 86.64 | 87.90 | 89.48 | 90.77 | 1.9% |
| Commercial/Other | 81.00 | 82.59 | 84.04 | 85.49 | 86.90 | 88.38 | 89.88 | 91.24 | 92.53 | 93.69 | 94.82 | 95.85 | 97.06 | 1.8% |
| Industrial | 58.45 | 59.35 | 60.19 | 60.85 | 61.65 | 62.39 | 63.34 | 64.13 | 64.93 | 65.95 | 66.95 | 68.06 | 69.05 | 1.7% |
| Transportation | 1.25 | 1.28 | 1.32 | 1.35 | 1.39 | 1.44 | 1.48 | 1.53 | 1.57 | 1.62 | 1.67 | 1.72 | 1.77 | 2.9% |
| Total Sales | 216.52 | 220.35 | 223.95 | 227.53 | 230.73 | 234.23 | 237.97 | 241.54 | 244.55 | 247.90 | 251.35 | 255.10 | 258.65 | 1.8% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross Interregional Electricity Imports | 20.85 | 16.26 | 18.12 | 16.65 | 16.94 | 16.69 | 16.85 | 18.11 | 18.45 | 19.19 | 20.29 | 19.34 | 16.99 | -1.2% |
| Gross Interregional Electricity Exports | 13.15 | 13.23 | 12.36 | 10.86 | 9.04 | 8.08 | 6.15 | 6.16 | 4.72 | 4.78 | 3.98 | 4.18 | 6.02 | -5.0% |
| Purchases from Combined Heat and Power 8/ | 0.92 | 0.94 | 0.97 | 1.00 | 1.03 | 1.07 | 1.11 | 1.15 | 1.20 | 1.25 | 1.30 | 1.36 | 1.41 | 4.4% |
| Electric Power Sector Generation for Customers | 217.92 | 227.14 | 227.77 | 231.48 | 232.52 | 235.59 | 237.39 | 239.61 | 240.80 | 243.76 | 245.44 | 250.29 | 258.20 | 1.6% |
| Total Net Energy for Load | 226.55 | 231.10 | 234.50 | 238.27 | 241.45 | 245.26 | 249.20 | 252.71 | 255.72 | 259.43 | 263.05 | 266.81 | 270.59 | 1.8% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 156.85 | 161.94 | 161.86 | 163.40 | 163.40 | 163.23 | 163.32 | 163.45 | 163.11 | 163.27 | 163.42 | 164.13 | 178.10 | 1.5% |
| Petroleum | 0.43 | 0.36 | 0.29 | 0.38 | 0.37 | 0.39 | 0.39 | 0.39 | 0.39 | 0.40 | 0.41 | 0.39 | 0.39 | -4.1% |
| Natural Gas | 52.38 | 55.80 | 56.93 | 59.02 | 60.46 | 63.61 | 65.43 | 67.82 | 69.56 | 72.25 | 73.85 | 78.24 | 72.07 | 2.7% |
| Nuclear | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | -0.2% |
| Pumped Storage/Other 3/ | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -4.1% |
| Renewable Sources 4/ | 5.92 | 5.93 | 5.93 | 5.93 | 5.94 | 5.94 | 5.94 | 5.95 | 5.95 | 5.96 | 5.97 | 5.98 | 5.98 | 0.7% |
| Total Generation | 225.38 | 233.82 | 234.79 | 238.53 | 239.96 | 242.96 | 244.88 | 247.41 | 248.81 | 251.68 | 253.44 | 258.53 | 266.33 | 1.6% |
| Sales to Customers | 224.18 | 232.62 | 233.60 | 237.34 | 238.77 | 241.77 | 243.69 | 246.21 | 247.61 | 250.48 | 252.25 | 257.33 | 265.13 | 1.6% |
| Generation for Own Use | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.5% |
| Distributed Generation 5/ | 0.00 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.0% |
| Petroleum | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.5% |
| Natural Gas | 2.68 | 2.74 | 2.81 | 2.89 | 2.97 | 3.07 | 3.17 | 3.29 | 3.42 | 3.56 | 3.69 | 3.85 | 3.99 | 3.4% |
| Other Gaseous Fuels | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 1.4% |
| Renewable Sources 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 2.5% |
| Other | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.0% |
| Total | 3.96 | 4.02 | 4.09 | 4.17 | 4.25 | 4.35 | 4.45 | 4.58 | 4.70 | 4.84 | 4.98 | 5.14 | 5.28 | 2.3% |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.6% |
| Sales to Utilities | 0.92 | 0.94 | 0.97 | 1.00 | 1.03 | 1.07 | 1.11 | 1.15 | 1.20 | 1.25 | 1.30 | 1.36 | 1.41 | 4.4% |
| Generation for Own Use | 3.05 | 3.08 | 3.13 | 3.17 | 3.22 | 3.28 | 3.35 | 3.43 | 3.50 | 3.59 | 3.68 | 3.78 | 3.87 | 1.7% |
| End-Use Prices (2001 cents per kilowatthour) | | | | | | | | | | | | | | |

**Table 69. Electric Power Projections for EMM Region**
**Southwest Power Pool**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.0 | 7.0 | 7.1 | 7.1 | 7.1 | 7.2 | 7.3 | 7.0 | -0.4% |
| Commercial | 6.1 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.1 | 6.1 | 6.2 | 6.4 | 6.5 | 6.2 | -0.1% |
| Industrial | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.2 | 4.2 | 4.3 | 4.4 | 4.5 | 4.3 | 0.1% |
| Transportation | 5.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.6 | 5.3 | -0.6% |
| All Sectors Average | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 | 5.8 | 5.9 | 6.0 | 6.0 | 6.1 | 6.2 | 6.0 | -0.2% |
| | | | | | | | | | | | | | | |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 3.7 | 3.6 | 3.6 | 3.7 | 3.7 | 3.7 | 3.7 | 3.8 | 3.9 | 4.0 | 4.1 | 4.2 | 4.0 | 0.5% |
| Transmission | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.2% |
| Distribution | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | -1.6% |
| | | | | | | | | | | | | | | |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 1.66 | 1.70 | 1.70 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.72 | 1.84 | 1.2% |
| Natural Gas | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 | 0.48 | 0.49 | 0.51 | 0.52 | 0.54 | 0.55 | 0.58 | 0.54 | 1.2% |
| Oil | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.1% |
| Total | 2.10 | 2.15 | 2.16 | 2.19 | 2.20 | 2.22 | 2.24 | 2.26 | 2.27 | 2.29 | 2.30 | 2.34 | 2.41 | 1.2% |
| | | | | | | | | | | | | | | |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 54.31 | 55.75 | 55.85 | 56.52 | 56.69 | 57.01 | 57.26 | 57.58 | 57.67 | 58.01 | 58.26 | 58.95 | 61.54 | 1.1% |
| Carbon Dioxide | 199.14 | 204.41 | 204.79 | 207.24 | 207.88 | 209.02 | 209.94 | 211.13 | 211.44 | 212.72 | 213.60 | 216.16 | 225.65 | 1.1% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.29 | -2.6% |

**Table 69. Electric Power Projections for EMM Region**
**Southwest Power Pool**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 70. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Northwest Power Pool Area**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 11.23 | 11.23 | 11.23 | 11.23 | 11.23 | 11.23 |
| Other Fossil Steam 2/ | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 |
| Combined Cycle | 2.08 | 2.08 | 3.35 | 3.89 | 3.89 | 4.51 | 5.59 | 7.54 | 8.16 | 9.23 | 10.48 | 12.08 | 13.07 |
| Combustion Turbine/Diesel | 1.20 | 1.55 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 |
| Nuclear Power | 1.11 | 1.11 | 1.11 | 1.11 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 |
| Pumped Storage/Other 3/ | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 36.20 | 36.29 | 36.45 | 36.78 | 36.86 | 37.11 | 37.34 | 37.52 | 37.59 | 37.71 | 37.76 | 37.91 | 37.96 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.21 | 0.27 | 0.34 |
| Total Capacity | 52.61 | 53.06 | 55.24 | 56.11 | 56.23 | 57.12 | 58.45 | 60.84 | 61.56 | 62.77 | 64.14 | 65.95 | 67.06 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 1.27 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.16 | 0.49 | 0.57 | 0.74 | 0.87 | 0.98 | 0.98 | 1.07 | 1.07 | 1.15 | 1.17 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 2.18 | 3.05 | 3.13 | 3.30 | 3.43 | 3.54 | 3.54 | 3.63 | 3.63 | 3.71 | 3.73 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.62 | 1.70 | 3.65 | 4.27 | 5.34 | 6.59 | 8.19 | 9.18 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.18 | 0.25 | 0.33 | 0.35 | 0.43 | 0.50 | 0.53 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 | 0.21 | 0.27 | 0.34 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.75 | 1.95 | 4.23 | 4.95 | 6.08 | 7.46 | 9.20 | 10.28 |
| Cumulative Total Additions | 0.00 | 0.00 | 2.18 | 3.05 | 3.16 | 4.05 | 5.38 | 7.77 | 8.49 | 9.70 | 11.10 | 12.91 | 14.02 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.03 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.03 |
| Combined Heat and Power 8/ Capacity | | | | | | | | | | | | | |

**Table 70. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Northwest Power Pool Area**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Petroleum | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Natural Gas | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 |
| Other Gaseous Fuels | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Renewable Sources 4/ | 0.38 | 0.38 | 0.38 | 0.39 | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 | 0.47 | 0.49 | 0.51 | 0.53 |
| Other | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.65 | 0.66 | 0.66 | 0.69 | 0.70 | 0.72 | 0.74 | 0.75 | 0.77 | 0.79 | 0.82 | 0.84 | 0.86 |
| Other End Use Generators | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 70.20 | 70.07 | 72.43 | 75.54 | 77.34 | 78.43 | 79.49 | 80.46 | 81.65 | 82.31 | 83.19 | 84.10 | 85.39 |
| Commercial/Other | 70.19 | 72.06 | 73.98 | 76.78 | 79.75 | 82.11 | 84.34 | 86.64 | 89.07 | 91.66 | 94.37 | 97.24 | 100.21 |
| Industrial | 83.26 | 79.18 | 77.13 | 80.97 | 84.22 | 85.72 | 87.79 | 90.18 | 92.94 | 95.08 | 97.84 | 100.41 | 102.72 |
| Transportation | 1.67 | 1.73 | 1.84 | 1.89 | 1.94 | 2.00 | 2.06 | 2.12 | 2.19 | 2.26 | 2.33 | 2.41 | 2.49 |
| Total Sales | 225.31 | 223.04 | 225.38 | 235.17 | 243.25 | 248.26 | 253.69 | 259.40 | 265.85 | 271.31 | 277.74 | 284.16 | 290.81 |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 5.16 | 6.72 | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 | 1.48 | 1.31 | 1.16 |
| Gross International Exports | 6.50 | 8.30 | 9.96 | 9.52 | 13.24 | 13.26 | 13.29 | 13.32 | 13.34 | 13.37 | 12.43 | 11.47 | 10.50 |
| Gross Interregional Electricity Imports | 24.63 | 42.66 | 30.81 | 24.73 | 23.99 | 19.85 | 18.50 | 18.19 | 18.05 | 17.84 | 16.20 | 14.47 | 12.63 |
| Gross Interregional Electricity Exports | 30.82 | 28.20 | 27.73 | 35.08 | 31.31 | 29.98 | 31.36 | 37.48 | 36.57 | 38.20 | 37.90 | 36.52 | 32.26 |
| Purchases from Combined Heat and Power 8/ | 0.51 | 0.48 | 0.56 | 0.59 | 0.62 | 0.65 | 0.68 | 0.71 | 0.75 | 0.78 | 0.82 | 0.85 | 0.88 |
| Electric Power Sector Generation for Customers | 238.85 | 195.41 | 235.44 | 257.72 | 266.90 | 275.36 | 283.58 | 297.21 | 302.95 | 310.62 | 318.40 | 326.04 | 331.04 |
| Total Net Energy for Load | 231.83 | 208.77 | 230.75 | 240.08 | 248.59 | 254.26 | 259.74 | 266.96 | 273.47 | 279.30 | 286.56 | 294.69 | 302.96 |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 77.19 | 73.83 | 78.10 | 77.49 | 79.61 | 81.53 | 83.35 | 86.87 | 85.49 | 85.51 | 85.53 | 85.48 | 85.53 |
| Petroleum | 1.12 | 1.89 | 0.02 | 0.03 | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Natural Gas | 20.76 | 21.63 | 23.90 | 28.00 | 31.67 | 37.18 | 42.36 | 49.84 | 56.58 | 63.47 | 70.19 | 75.58 | 78.79 |
| Nuclear | 8.60 | 8.25 | 8.90 | 8.90 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 |
| Pumped Storage/Other 3/ | 0.26 | 0.26 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 |
| Renewable Sources 4/ | 140.69 | 99.34 | 136.87 | 156.92 | 160.22 | 161.18 | 162.35 | 163.50 | 164.25 | 164.75 | 165.30 | 166.15 | 166.55 |
| Total Generation | 248.63 | 205.21 | 247.56 | 271.11 | 280.30 | 288.70 | 296.85 | 309.01 | 315.10 | 322.52 | 329.81 | 336.00 | 339.67 |
| Sales to Customers | 247.81 | 204.39 | 246.71 | 270.25 | 279.43 | 287.83 | 295.98 | 308.13 | 314.23 | 321.64 | 328.94 | 335.13 | 338.80 |
| Generation for Own Use | 0.82 | 0.82 | 0.85 | 0.86 | 0.86 | 0.87 | 0.87 | 0.88 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.09 | 0.17 | 0.29 | 0.30 | 0.31 | 0.34 | 0.37 | 0.40 |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| Petroleum | 0.12 | 0.12 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| Natural Gas | 1.35 | 1.35 | 1.46 | 1.50 | 1.55 | 1.60 | 1.66 | 1.72 | 1.77 | 1.83 | 1.88 | 1.92 | 1.96 |
| Other Gaseous Fuels | 0.12 | 0.12 | 0.12 | 0.12 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Renewable Sources 4/ | 0.54 | 0.54 | 0.53 | 0.56 | 0.58 | 0.59 | 0.60 | 0.62 | 0.63 | 0.65 | 0.68 | 0.71 | 0.73 |
| Other | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Total | 2.99 | 2.98 | 3.10 | 3.17 | 3.25 | 3.32 | 3.39 | 3.46 | 3.53 | 3.61 | 3.69 | 3.76 | 3.82 |
| Other End Use Generators | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 |
| Sales to Utilities | 0.51 | 0.48 | 0.56 | 0.59 | 0.62 | 0.65 | 0.68 | 0.71 | 0.75 | 0.78 | 0.82 | 0.85 | 0.88 |
| Generation for Own Use | 2.55 | 2.57 | 2.61 | 2.65 | 2.71 | 2.75 | 2.79 | 2.83 | 2.87 | 2.91 | 2.96 | 2.99 | 3.03 |

**Table 70. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Northwest Power Pool Area**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 6.0 | 6.6 | 6.8 | 6.0 | 6.0 | 6.1 | 6.2 | 6.3 | 6.4 | 6.5 | 6.6 | 6.6 | 6.6 |
| Commercial | 5.5 | 6.2 | 6.4 | 5.5 | 5.5 | 5.6 | 5.6 | 5.7 | 5.8 | 5.8 | 5.9 | 5.8 | 5.9 |
| Industrial | 3.2 | 3.4 | 3.6 | 3.1 | 3.2 | 3.2 | 3.2 | 3.3 | 3.3 | 3.3 | 3.4 | 3.3 | 3.4 |
| Transportation | 5.5 | 6.0 | 6.2 | 5.4 | 5.4 | 5.4 | 5.4 | 5.5 | 5.5 | 5.5 | 5.5 | 5.5 | 5.4 |
| All Sectors Average | 4.8 | 5.3 | 5.6 | 4.8 | 4.9 | 4.9 | 5.0 | 5.1 | 5.1 | 5.2 | 5.2 | 5.2 | 5.2 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 2.3 | 2.8 | 3.1 | 2.4 | 2.4 | 2.5 | 2.5 | 2.6 | 2.6 | 2.7 | 2.7 | 2.7 | 2.7 |
| Transmission | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| Distribution | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 0.82 | 0.79 | 0.83 | 0.82 | 0.85 | 0.87 | 0.89 | 0.92 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 |
| Natural Gas | 0.21 | 0.22 | 0.21 | 0.24 | 0.28 | 0.32 | 0.35 | 0.40 | 0.44 | 0.49 | 0.53 | 0.56 | 0.58 |
| Oil | 0.08 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.08 | 0.07 | 0.06 |
| Total | 1.11 | 1.10 | 1.12 | 1.17 | 1.23 | 1.29 | 1.34 | 1.40 | 1.44 | 1.48 | 1.52 | 1.54 | 1.55 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 29.18 | 29.47 | 27.06 | 27.42 | 28.67 | 29.91 | 30.93 | 32.62 | 32.97 | 33.69 | 34.39 | 34.85 | 35.17 |
| Carbon Dioxide | 106.98 | 108.07 | 99.20 | 100.54 | 105.11 | 109.68 | 113.39 | 119.62 | 120.89 | 123.55 | 126.09 | 127.80 | 128.96 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.17 | 0.16 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |

**Table 70. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Northwest Power Pool Area**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ | | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 11.23 | 11.23 | 11.50 | 11.50 | 11.74 | 11.78 | 11.98 | 11.98 | 12.27 | 12.60 | 12.92 | 13.13 | 13.51 | 0.9% |
| Other Fossil Steam 2/ | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | N/A |
| Combined Cycle | 14.57 | 15.85 | 16.14 | 16.14 | 16.28 | 16.28 | 16.28 | 16.42 | 16.74 | 17.12 | 17.41 | 17.62 | 17.80 | 9.4% |
| Combustion Turbine/Diesel | 2.31 | 2.43 | 3.36 | 4.38 | 5.27 | 6.27 | 7.15 | 8.24 | 9.29 | 10.47 | 11.39 | 12.26 | 13.29 | 9.4% |
| Nuclear Power | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 0.0% |
| Pumped Storage/Other 3/ | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 38.19 | 38.22 | 38.28 | 38.39 | 38.42 | 38.50 | 38.64 | 38.87 | 38.94 | 39.00 | 39.04 | 39.21 | 39.35 | 0.3% |
| Distributed Generation 5/ | 0.41 | 0.62 | 0.85 | 1.08 | 1.30 | 1.52 | 1.73 | 1.96 | 2.20 | 2.46 | 2.71 | 2.97 | 3.24 | N/A |
| Total Capacity | 68.86 | 70.50 | 72.28 | 73.63 | 75.15 | 76.50 | 77.94 | 79.63 | 81.59 | 83.79 | 85.63 | 87.36 | 89.34 | 2.2% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | N/A |
| Combustion Turbine/Diesel | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 1.36 | 1.36 | 1.37 | 1.37 | 1.38 | 1.39 | 1.39 | 1.40 | 1.41 | 1.41 | 1.42 | 1.42 | 1.43 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 3.92 | 3.92 | 3.93 | 3.93 | 3.94 | 3.95 | 3.95 | 3.96 | 3.96 | 3.97 | 3.98 | 3.98 | 3.99 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.24 | 0.24 | 0.51 | 0.51 | 0.74 | 0.79 | 0.99 | 0.99 | 1.28 | 1.60 | 1.93 | 2.14 | 2.52 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 10.68 | 11.96 | 12.25 | 12.25 | 12.39 | 12.39 | 12.39 | 12.53 | 12.85 | 13.23 | 13.52 | 13.73 | 13.91 | N/A |
| Combustion Turbine/Diesel | 0.00 | 0.12 | 1.05 | 2.07 | 2.96 | 3.96 | 4.84 | 5.93 | 6.98 | 8.16 | 9.08 | 9.96 | 10.98 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.58 | 0.60 | 0.66 | 0.76 | 0.78 | 0.86 | 0.99 | 1.22 | 1.27 | 1.33 | 1.36 | 1.53 | 1.65 | N/A |
| Distributed Generation 5/ | 0.41 | 0.62 | 0.85 | 1.08 | 1.30 | 1.52 | 1.73 | 1.96 | 2.20 | 2.46 | 2.71 | 2.97 | 3.24 | N/A |
| Total Unplanned Additions | 11.90 | 13.54 | 15.31 | 16.66 | 18.17 | 19.51 | 20.94 | 22.63 | 24.58 | 26.78 | 28.61 | 30.33 | 32.31 | N/A |
| Cumulative Total Additions | 15.81 | 17.46 | 19.24 | 20.59 | 22.11 | 23.46 | 24.90 | 26.59 | 28.55 | 30.75 | 32.59 | 34.31 | 36.30 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Total | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Combined Heat and Power 8/ | | | | | | | | | | | | | | |
| Capacity | | | | | | | | | | | | | | |
| Coal | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.0% |

**Table 70. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Northwest Power Pool Area**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Petroleum | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.6% |
| Natural Gas | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 0.25 | 0.25 | 0.26 | 0.27 | 0.28 | 0.29 | 0.30 | 0.31 | 2.7% |
| Other Gaseous Fuels | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.3% |
| Renewable Sources 4/ | 0.54 | 0.56 | 0.57 | 0.59 | 0.60 | 0.61 | 0.63 | 0.64 | 0.66 | 0.67 | 0.69 | 0.70 | 0.72 | 2.7% |
| Other | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | N/A |
| Total | 0.88 | 0.90 | 0.92 | 0.94 | 0.96 | 0.98 | 1.00 | 1.03 | 1.05 | 1.07 | 1.10 | 1.13 | 1.15 | 2.4% |
| Other End Use Generators | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 | 2.5% |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 86.23 | 87.17 | 88.13 | 89.18 | 89.90 | 90.88 | 91.97 | 93.22 | 94.00 | 94.95 | 95.94 | 97.11 | 97.79 | 1.4% |
| Commercial/Other | 103.34 | 106.46 | 109.62 | 112.85 | 116.36 | 119.93 | 123.70 | 127.24 | 130.91 | 134.44 | 138.17 | 141.91 | 145.86 | 3.0% |
| Industrial | 104.84 | 107.01 | 108.73 | 110.22 | 111.96 | 113.86 | 115.99 | 117.85 | 119.80 | 122.14 | 124.54 | 127.25 | 129.70 | 2.1% |
| Transportation | 2.57 | 2.65 | 2.74 | 2.82 | 2.92 | 3.02 | 3.12 | 3.23 | 3.35 | 3.46 | 3.58 | 3.70 | 3.81 | 3.3% |
| Total Sales | 296.98 | 303.29 | 309.22 | 315.07 | 321.13 | 327.68 | 334.78 | 341.54 | 348.06 | 355.00 | 362.23 | 369.97 | 377.17 | 2.2% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 0.98 | 0.82 | 0.65 | 0.49 | 0.33 | 0.16 | 0.08 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross International Exports | 9.53 | 8.56 | 7.60 | 6.63 | 5.66 | 4.70 | 4.21 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | -3.3% |
| Gross Interregional Electricity Imports | 11.18 | 9.72 | 8.19 | 6.59 | 5.33 | 3.76 | 3.17 | 2.56 | 2.50 | 2.45 | 2.80 | 2.79 | 3.75 | -9.6% |
| Gross Interregional Electricity Exports | 28.25 | 28.60 | 26.03 | 21.35 | 19.09 | 14.52 | 13.93 | 11.41 | 8.37 | 5.43 | 4.97 | 5.26 | 4.47 | -7.4% |
| Purchases from Combined Heat and Power 8/ | 0.91 | 0.94 | 0.97 | 0.99 | 1.03 | 1.06 | 1.10 | 1.14 | 1.18 | 1.23 | 1.28 | 1.34 | 1.39 | 4.5% |
| Electric Power Sector Generation for Customers | 335.76 | 343.27 | 347.48 | 349.82 | 353.33 | 356.61 | 363.14 | 368.06 | 372.37 | 377.14 | 383.88 | 391.87 | 397.75 | 3.0% |
| Total Net Energy for Load | 311.04 | 317.58 | 323.67 | 329.92 | 335.25 | 342.38 | 349.35 | 356.62 | 363.96 | 371.66 | 379.26 | 387.00 | 394.69 | 2.7% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 85.53 | 85.53 | 87.52 | 87.52 | 89.28 | 89.64 | 91.12 | 91.12 | 93.26 | 95.67 | 98.10 | 99.68 | 102.49 | 1.4% |
| Petroleum | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | -14.5% |
| Natural Gas | 80.55 | 87.47 | 89.30 | 90.85 | 93.04 | 95.11 | 99.75 | 102.81 | 104.21 | 105.87 | 109.92 | 115.57 | 117.64 | 7.3% |
| Nuclear | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 0.4% |
| Pumped Storage/Other 3/ | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | N/A |
| Renewable Sources 4/ | 167.77 | 168.14 | 168.43 | 169.17 | 169.33 | 169.99 | 170.93 | 172.69 | 173.07 | 173.48 | 173.74 | 174.81 | 175.67 | 2.4% |
| Total Generation | 342.65 | 349.93 | 354.04 | 356.33 | 360.45 | 363.53 | 370.59 | 375.41 | 379.33 | 383.82 | 390.56 | 398.85 | 404.61 | 2.9% |
| Sales to Customers | 341.77 | 349.06 | 353.17 | 355.46 | 359.57 | 362.66 | 369.72 | 374.54 | 378.45 | 382.95 | 389.68 | 397.98 | 403.73 | 2.9% |
| Generation for Own Use | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.3% |
| Distributed Generation 5/ | 0.43 | 0.52 | 0.62 | 0.72 | 0.82 | 0.91 | 1.01 | 1.11 | 1.21 | 1.33 | 1.44 | 1.55 | 1.67 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.0% |
| Petroleum | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.5% |
| Natural Gas | 2.01 | 2.05 | 2.10 | 2.16 | 2.22 | 2.29 | 2.37 | 2.46 | 2.55 | 2.66 | 2.76 | 2.88 | 2.98 | 3.4% |
| Other Gaseous Fuels | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 1.4% |
| Renewable Sources 4/ | 0.75 | 0.77 | 0.78 | 0.80 | 0.82 | 0.83 | 0.85 | 0.87 | 0.89 | 0.91 | 0.93 | 0.95 | 0.97 | 2.5% |
| Other | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.0% |
| Total | 3.88 | 3.95 | 4.02 | 4.09 | 4.17 | 4.26 | 4.36 | 4.47 | 4.58 | 4.71 | 4.83 | 4.97 | 5.10 | 2.3% |
| Other End Use Generators | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 1.6% |
| Sales to Utilities | 0.91 | 0.94 | 0.97 | 0.99 | 1.03 | 1.06 | 1.10 | 1.14 | 1.18 | 1.23 | 1.28 | 1.34 | 1.39 | 4.5% |
| Generation for Own Use | 3.06 | 3.10 | 3.14 | 3.19 | 3.23 | 3.29 | 3.35 | 3.42 | 3.49 | 3.57 | 3.65 | 3.74 | 3.82 | 1.7% |
| End-Use Prices (2001 cents per kilowatthour) | | | | | | | | | | | | | | |

**Table 70. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Northwest Power Pool Area**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | 6.7 | 6.8 | 6.8 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 7.0 | 7.1 | 7.2 | 7.3 | 7.4 | 0.5% |
| Commercial | 5.9 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.1 | 6.1 | 6.2 | 6.3 | 6.4 | 6.5 | 0.2% |
| Industrial | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.5 | 3.5 | 3.6 | 3.6 | 0.2% |
| Transportation | 5.4 | 5.4 | 5.4 | 5.4 | 5.3 | 5.3 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | -0.6% |
| All Sectors Average | 5.2 | 5.3 | 5.3 | 5.3 | 5.4 | 5.3 | 5.3 | 5.4 | 5.4 | 5.5 | 5.6 | 5.6 | 5.7 | 0.3% |
| | | | | | | | | | | | | | | |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 2.8 | 2.8 | 2.9 | 2.9 | 2.9 | 2.9 | 3.0 | 3.0 | 3.1 | 3.2 | 3.2 | 3.3 | 3.4 | 0.8% |
| Transmission | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.6% |
| Distribution | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | -0.9% |
| | | | | | | | | | | | | | | |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 0.91 | 0.91 | 0.93 | 0.93 | 0.94 | 0.94 | 0.96 | 0.96 | 0.97 | 1.00 | 1.02 | 1.03 | 1.05 | 1.2% |
| Natural Gas | 0.58 | 0.63 | 0.64 | 0.65 | 0.66 | 0.68 | 0.71 | 0.73 | 0.74 | 0.75 | 0.78 | 0.81 | 0.83 | 5.7% |
| Oil | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | -1.8% |
| Total | 1.54 | 1.58 | 1.61 | 1.62 | 1.66 | 1.67 | 1.72 | 1.74 | 1.77 | 1.80 | 1.85 | 1.90 | 1.94 | 2.4% |
| | | | | | | | | | | | | | | |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 35.27 | 35.95 | 36.64 | 36.83 | 37.52 | 37.84 | 38.74 | 39.08 | 39.77 | 40.58 | 41.65 | 42.65 | 43.57 | 1.6% |
| Carbon Dioxide | 129.33 | 131.83 | 134.35 | 135.06 | 137.56 | 138.75 | 142.04 | 143.30 | 145.81 | 148.81 | 152.72 | 156.37 | 159.77 | 1.6% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.18 | 0.18 | 0.18 | 0.18 | 0.4% |

**Table 70. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Northwest Power Pool Area**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 71. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Rocky Mountain Area, Arizon, New Mexico, Southern Nevada**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 15.61 | 15.61 | 15.61 | 15.61 | 15.61 | 15.61 | 15.50 | 15.50 | 15.50 | 16.18 | 16.18 | 16.81 | 16.81 |
| Other Fossil Steam 2/ | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.76 | 1.45 | 0.11 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Combined Cycle | 2.89 | 4.87 | 8.47 | 11.95 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 |
| Combustion Turbine/Diesel | 3.18 | 3.78 | 4.61 | 4.88 | 4.88 | 4.88 | 4.76 | 4.70 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 |
| Nuclear Power | 2.71 | 2.71 | 2.71 | 2.75 | 2.75 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| Pumped Storage/Other 3/ | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 5.84 | 6.27 | 6.27 | 6.44 | 6.46 | 6.50 | 6.50 | 6.52 | 6.52 | 6.64 | 6.65 | 6.78 | 6.78 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.04 | 0.04 | 0.06 | 0.07 | 0.09 | 0.15 |
| Total Capacity | 33.76 | 36.78 | 41.21 | 45.17 | 46.28 | 46.37 | 44.84 | 43.43 | 42.69 | 43.51 | 43.53 | 44.31 | 44.37 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 3.60 | 7.07 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.83 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.01 | 0.17 | 0.19 | 0.23 | 0.24 | 0.25 | 0.26 | 0.26 | 0.26 | 0.27 | 0.27 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 4.43 | 8.35 | 9.46 | 9.51 | 9.52 | 9.53 | 9.53 | 9.54 | 9.54 | 9.54 | 9.55 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.68 | 0.68 | 1.31 | 1.31 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.12 | 0.24 | 0.24 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.04 | 0.04 | 0.06 | 0.07 | 0.09 | 0.15 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.04 | 0.04 | 0.85 | 0.87 | 1.65 | 1.70 |
| Cumulative Total Additions | 0.00 | 0.00 | 4.43 | 8.35 | 9.46 | 9.55 | 9.56 | 9.57 | 9.57 | 10.39 | 10.41 | 11.19 | 11.25 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 1.33 | 2.68 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.19 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 1.57 | 2.98 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 |
| Combined Heat and Power 8/ Capacity | | | | | | | | | | | | | |

**Table 71. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Rocky Mountain Area, Arizon, New Mexico, Southern Nevada**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.16 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 0.17 | 0.18 | 0.18 | 0.18 | 0.18 | 0.19 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Electricity Demand | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 56.21 | 57.03 | 56.24 | 59.01 | 60.71 | 61.99 | 63.35 | 64.83 | 66.43 | 67.62 | 68.97 | 70.30 | 71.79 |
| Commercial/Other | 52.24 | 54.33 | 53.38 | 54.88 | 56.49 | 57.77 | 59.12 | 60.79 | 62.75 | 64.92 | 67.17 | 69.45 | 71.53 |
| Industrial | 37.28 | 34.76 | 31.82 | 33.41 | 34.12 | 34.75 | 35.63 | 36.65 | 37.84 | 38.71 | 39.76 | 40.76 | 41.71 |
| Transportation | 0.93 | 0.95 | 0.95 | 0.99 | 1.02 | 1.06 | 1.09 | 1.13 | 1.17 | 1.22 | 1.26 | 1.31 | 1.36 |
| Total Sales | 146.66 | 147.06 | 142.40 | 148.29 | 152.34 | 155.56 | 159.20 | 163.40 | 168.19 | 172.47 | 177.17 | 181.82 | 186.40 |
| | | | | | | | | | | | | | |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross Interregional Electricity Imports | 24.38 | 21.28 | 16.87 | 16.33 | 17.27 | 19.27 | 19.04 | 19.26 | 19.06 | 19.52 | 18.37 | 15.91 | 13.23 |
| Gross Interregional Electricity Exports | 46.31 | 58.57 | 52.44 | 61.08 | 62.17 | 62.55 | 57.34 | 45.26 | 44.31 | 43.40 | 38.60 | 34.27 | 30.00 |
| Purchases from Combined Heat and Power 8/ | 0.17 | 0.16 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.28 |
| Electric Power Sector Generation for Customers | 191.67 | 193.95 | 184.06 | 196.62 | 202.76 | 204.41 | 203.58 | 196.62 | 200.00 | 203.47 | 204.79 | 208.17 | 210.52 |
| Total Net Energy for Load | 169.91 | 156.83 | 148.68 | 152.06 | 158.07 | 161.35 | 165.52 | 170.86 | 174.99 | 179.85 | 184.83 | 190.08 | 194.03 |
| | | | | | | | | | | | | | |
| Generation by Fuel Type | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 128.28 | 127.67 | 111.53 | 110.75 | 114.01 | 117.05 | 118.96 | 121.45 | 119.74 | 124.78 | 124.78 | 129.49 | 129.49 |
| Petroleum | 0.39 | 0.58 | 0.50 | 0.69 | 0.85 | 0.86 | 0.86 | 0.85 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Natural Gas | 29.85 | 35.32 | 41.34 | 54.62 | 55.19 | 53.29 | 50.12 | 39.94 | 45.99 | 43.49 | 44.83 | 42.50 | 45.63 |
| Nuclear | 22.05 | 20.85 | 21.63 | 21.99 | 21.99 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 |
| Pumped Storage/Other 3/ | -0.10 | 0.05 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 |
| Renewable Sources 4/ | 18.40 | 16.92 | 17.98 | 20.09 | 20.53 | 20.63 | 20.70 | 20.77 | 20.79 | 21.32 | 21.32 | 21.87 | 21.88 |
| Total Generation | 198.86 | 201.39 | 192.95 | 208.11 | 212.53 | 214.00 | 212.81 | 205.19 | 209.56 | 212.63 | 213.98 | 216.90 | 220.04 |
| Sales to Customers | 197.89 | 200.02 | 190.99 | 206.17 | 210.60 | 212.07 | 210.88 | 203.27 | 207.64 | 210.71 | 212.05 | 214.98 | 218.11 |
| Generation for Own Use | 0.97 | 1.37 | 1.96 | 1.93 | 1.93 | 1.93 | 1.93 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.23 |
| | | | | | | | | | | | | | |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 0.34 | 0.33 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 |
| Petroleum | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Natural Gas | 0.56 | 0.56 | 0.61 | 0.63 | 0.65 | 0.67 | 0.69 | 0.72 | 0.74 | 0.76 | 0.78 | 0.80 | 0.82 |
| Other Gaseous Fuels | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.96 | 0.96 | 1.01 | 1.03 | 1.05 | 1.07 | 1.10 | 1.12 | 1.14 | 1.17 | 1.19 | 1.21 | 1.22 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | | | | |
| Sales to Utilities | 0.17 | 0.16 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.28 |
| Generation for Own Use | 0.79 | 0.80 | 0.82 | 0.83 | 0.84 | 0.86 | 0.87 | 0.88 | 0.90 | 0.91 | 0.92 | 0.93 | 0.94 |

**Table 71. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Rocky Mountain Area, Arizon, New Mexico, Southern Nevada**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 8.1 | 8.2 | 7.8 | 7.5 | 7.6 | 7.7 | 7.6 | 7.6 | 7.7 | 7.8 | 8.0 | 8.0 | 8.2 |
| Commercial | 6.7 | 6.9 | 6.8 | 6.5 | 6.5 | 6.4 | 6.3 | 6.2 | 6.3 | 6.4 | 6.7 | 6.7 | 7.0 |
| Industrial | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.5 | 4.6 | 4.7 | 4.8 | 4.8 | 4.9 |
| Transportation | 7.0 | 7.0 | 6.8 | 6.6 | 6.7 | 6.7 | 6.6 | 6.5 | 6.6 | 6.7 | 6.9 | 6.8 | 7.0 |
| All Sectors Average | 6.7 | 6.8 | 6.7 | 6.5 | 6.5 | 6.5 | 6.4 | 6.4 | 6.5 | 6.6 | 6.8 | 6.8 | 7.0 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 4.0 | 4.3 | 4.1 | 3.8 | 3.8 | 3.8 | 3.7 | 3.6 | 3.8 | 3.9 | 4.1 | 4.1 | 4.3 |
| Transmission | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Distribution | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 1.35 | 1.35 | 1.16 | 1.15 | 1.19 | 1.22 | 1.24 | 1.27 | 1.25 | 1.29 | 1.29 | 1.33 | 1.33 |
| Natural Gas | 0.31 | 0.37 | 0.34 | 0.43 | 0.44 | 0.42 | 0.40 | 0.32 | 0.36 | 0.34 | 0.35 | 0.34 | 0.36 |
| Oil | 0.06 | 0.07 | 0.07 | 0.09 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.07 | 0.08 |
| Total | 1.72 | 1.79 | 1.57 | 1.67 | 1.70 | 1.72 | 1.71 | 1.65 | 1.69 | 1.71 | 1.72 | 1.74 | 1.77 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 40.41 | 42.10 | 38.30 | 39.50 | 40.57 | 41.27 | 41.39 | 40.87 | 41.10 | 42.04 | 42.21 | 43.07 | 43.46 |
| Carbon Dioxide | 148.16 | 154.37 | 140.43 | 144.83 | 148.75 | 151.31 | 151.76 | 149.85 | 150.71 | 154.13 | 154.76 | 157.92 | 159.34 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.24 | 0.22 | 0.21 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |

**Table 71. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Rocky Mountain Area, Arizon, New Mexico, Southern Nevada**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 18.02 | 18.21 | 19.83 | 19.83 | 21.00 | 21.00 | 22.13 | 22.13 | 22.67 | 22.67 | 23.95 | 23.95 | 25.22 | 2.0% |
| Other Fossil Steam 2/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.00 | 0.00 | N/A |
| Combined Cycle | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.24 | 13.24 | 13.46 | 13.46 | 13.94 | 4.5% |
| Combustion Turbine/Diesel | 4.04 | 4.04 | 4.15 | 4.15 | 4.66 | 4.66 | 5.25 | 5.25 | 6.64 | 6.64 | 7.83 | 7.72 | 8.21 | 3.3% |
| Nuclear Power | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 0.1% |
| Pumped Storage/Other 3/ | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 6.97 | 6.98 | 7.21 | 7.22 | 7.37 | 7.37 | 7.52 | 7.52 | 7.66 | 7.67 | 7.83 | 7.84 | 7.95 | 1.0% |
| Distributed Generation 5/ | 0.20 | 0.26 | 0.32 | 0.37 | 0.54 | 0.59 | 0.77 | 0.83 | 1.02 | 1.09 | 1.28 | 1.28 | 1.47 | N/A |
| Total Capacity | 45.83 | 46.07 | 48.10 | 48.16 | 50.16 | 50.21 | 52.26 | 52.32 | 54.78 | 54.84 | 57.89 | 57.77 | 60.30 | 2.1% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | 8.17 | N/A |
| Combustion Turbine/Diesel | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.28 | 0.28 | 0.28 | 0.29 | 0.29 | 0.29 | 0.30 | 0.30 | 0.30 | 0.31 | 0.31 | 0.31 | 0.32 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 9.55 | 9.55 | 9.56 | 9.56 | 9.56 | 9.57 | 9.57 | 9.57 | 9.58 | 9.58 | 9.59 | 9.59 | 9.59 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 2.52 | 2.71 | 4.32 | 4.32 | 5.50 | 5.50 | 6.63 | 6.63 | 7.17 | 7.17 | 8.45 | 8.45 | 9.71 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.19 | 0.41 | 0.41 | 0.89 | N/A |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.11 | 0.11 | 0.62 | 0.62 | 1.21 | 1.21 | 2.60 | 2.60 | 3.79 | 3.79 | 4.28 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.44 | 0.44 | 0.67 | 0.67 | 0.81 | 0.81 | 0.96 | 0.96 | 1.10 | 1.10 | 1.26 | 1.26 | 1.37 | N/A |
| Distributed Generation 5/ | 0.20 | 0.26 | 0.32 | 0.37 | 0.54 | 0.59 | 0.77 | 0.83 | 1.02 | 1.09 | 1.28 | 1.28 | 1.47 | N/A |
| Total Unplanned Additions | 3.16 | 3.40 | 5.42 | 5.48 | 7.47 | 7.52 | 9.57 | 9.63 | 12.08 | 12.15 | 15.19 | 15.19 | 17.71 | N/A |
| Cumulative Total Additions | 12.71 | 12.96 | 14.98 | 15.04 | 17.04 | 17.09 | 19.14 | 19.21 | 21.66 | 21.73 | 24.77 | 24.78 | 27.30 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | N/A |
| Other Fossil Steam 3/ | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.79 | 2.79 | N/A |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combustion Turbine/Diesel | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.95 | 0.95 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | N/A |
| Total | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.85 | 3.85 | N/A |
| Combined Heat and Power 8/ Capacity | | | | | | | | | | | | | | |

**Table 71. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Rocky Mountain Area, Arizon, New Mexico, Southern Nevada**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.0% |
| Petroleum | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Natural Gas | 0.11 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 | 2.7% |
| Other Gaseous Fuels | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 1.7% |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 73.03 | 74.36 | 75.81 | 77.27 | 78.50 | 79.85 | 81.33 | 82.87 | 84.10 | 85.48 | 86.95 | 88.49 | 89.67 | 1.9% |
| Commercial/Other | 73.77 | 75.96 | 78.44 | 80.95 | 83.83 | 86.57 | 89.47 | 91.91 | 94.54 | 96.89 | 99.57 | 102.15 | 105.14 | 2.8% |
| Industrial | 42.55 | 43.40 | 44.12 | 44.73 | 45.44 | 46.19 | 47.07 | 47.84 | 48.65 | 49.63 | 50.62 | 51.75 | 52.76 | 1.8% |
| Transportation | 1.41 | 1.47 | 1.52 | 1.58 | 1.64 | 1.70 | 1.77 | 1.84 | 1.92 | 1.99 | 2.07 | 2.15 | 2.23 | 3.6% |
| Total Sales | 190.77 | 195.19 | 199.90 | 204.53 | 209.41 | 214.31 | 219.64 | 224.46 | 229.21 | 233.99 | 239.22 | 244.55 | 249.81 | 2.2% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross International Exports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross Interregional Electricity Imports | 11.28 | 10.98 | 9.23 | 8.15 | 6.11 | 5.16 | 3.55 | 3.52 | 1.94 | 2.21 | 1.98 | 3.18 | 4.38 | -6.4% |
| Gross Interregional Electricity Exports | 27.27 | 22.95 | 20.94 | 16.87 | 15.00 | 10.57 | 9.71 | 7.49 | 10.76 | 9.37 | 12.28 | 9.67 | 12.71 | -6.2% |
| Purchases from Combined Heat and Power 8/ | 0.29 | 0.30 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 | 0.38 | 0.39 | 0.41 | 0.43 | 0.44 | 4.4% |
| Electric Power Sector Generation for Customers | 214.91 | 215.13 | 219.48 | 222.35 | 227.71 | 229.67 | 236.39 | 238.79 | 248.23 | 251.71 | 260.31 | 262.30 | 269.74 | 1.4% |
| Total Net Energy for Load | 199.22 | 203.46 | 208.07 | 213.95 | 219.14 | 224.60 | 230.58 | 235.19 | 239.78 | 244.94 | 250.42 | 256.24 | 261.86 | 2.2% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 138.48 | 139.89 | 151.91 | 151.91 | 160.65 | 160.65 | 169.03 | 169.03 | 173.04 | 173.04 | 182.59 | 182.59 | 191.98 | 1.7% |
| Petroleum | 0.87 | 1.04 | 0.87 | 0.87 | 0.87 | 0.87 | 0.86 | 0.86 | 0.87 | 0.86 | 0.86 | 0.87 | 1.03 | 2.4% |
| Natural Gas | 39.47 | 38.46 | 30.16 | 32.28 | 28.30 | 30.07 | 27.32 | 30.26 | 35.38 | 38.84 | 37.16 | 39.09 | 36.44 | 0.1% |
| Nuclear | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 0.3% |
| Pumped Storage/Other 3/ | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | N/A |
| Renewable Sources 4/ | 22.70 | 22.70 | 23.65 | 23.66 | 24.30 | 24.31 | 24.99 | 25.00 | 25.63 | 25.64 | 26.32 | 26.35 | 26.78 | 1.9% |
| Total Generation | 223.70 | 224.26 | 228.76 | 230.89 | 236.29 | 238.06 | 244.38 | 247.32 | 257.09 | 260.55 | 269.11 | 271.07 | 278.41 | 1.4% |
| Sales to Customers | 221.77 | 222.33 | 226.84 | 228.96 | 234.37 | 236.14 | 242.46 | 245.40 | 255.16 | 258.63 | 267.19 | 269.15 | 276.48 | 1.4% |
| Generation for Own Use | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.4% |
| Distributed Generation 5/ | 0.25 | 0.28 | 0.30 | 0.32 | 0.40 | 0.42 | 0.50 | 0.53 | 0.61 | 0.64 | 0.72 | 0.72 | 0.80 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.0% |
| Petroleum | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.5% |
| Natural Gas | 0.84 | 0.86 | 0.88 | 0.90 | 0.93 | 0.96 | 0.99 | 1.03 | 1.07 | 1.11 | 1.15 | 1.20 | 1.24 | 3.4% |
| Other Gaseous Fuels | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 1.4% |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Total | 1.24 | 1.26 | 1.28 | 1.31 | 1.33 | 1.36 | 1.39 | 1.43 | 1.47 | 1.52 | 1.56 | 1.61 | 1.65 | 2.3% |
| Other End Use Generators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Sales to Utilities | 0.29 | 0.30 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.36 | 0.38 | 0.39 | 0.41 | 0.43 | 0.44 | 4.4% |
| Generation for Own Use | 0.95 | 0.96 | 0.98 | 0.99 | 1.01 | 1.02 | 1.04 | 1.07 | 1.09 | 1.12 | 1.15 | 1.18 | 1.21 | 1.7% |

**Table 71. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Rocky Mountain Area, Arizon, New Mexico, Southern Nevada**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 7.9 | 8.1 | 7.9 | 8.1 | 7.9 | 8.1 | 8.0 | 8.2 | 7.9 | 8.2 | 8.0 | 8.4 | 8.3 | 0.1% |
| Commercial | 6.6 | 6.9 | 6.6 | 6.9 | 6.5 | 6.8 | 6.6 | 7.0 | 6.6 | 6.9 | 6.6 | 7.1 | 6.9 | 0.0% |
| Industrial | 4.6 | 4.9 | 4.6 | 4.8 | 4.6 | 4.7 | 4.6 | 4.8 | 4.6 | 4.8 | 4.6 | 5.0 | 4.9 | 0.2% |
| Transportation | 6.7 | 6.9 | 6.6 | 6.8 | 6.5 | 6.6 | 6.5 | 6.6 | 6.3 | 6.5 | 6.3 | 6.6 | 6.5 | -0.3% |
| All Sectors Average | 6.7 | 6.9 | 6.7 | 6.9 | 6.6 | 6.9 | 6.7 | 7.0 | 6.6 | 6.9 | 6.7 | 7.1 | 7.0 | 0.1% |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 4.0 | 4.2 | 3.9 | 4.1 | 3.9 | 4.1 | 3.9 | 4.2 | 3.9 | 4.2 | 3.9 | 4.3 | 4.2 | -0.1% |
| Transmission | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 1.7% |
| Distribution | 2.0 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | -0.2% |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 1.41 | 1.42 | 1.53 | 1.53 | 1.60 | 1.60 | 1.67 | 1.67 | 1.71 | 1.71 | 1.79 | 1.79 | 1.87 | 1.4% |
| Natural Gas | 0.31 | 0.31 | 0.24 | 0.26 | 0.23 | 0.24 | 0.22 | 0.24 | 0.28 | 0.31 | 0.29 | 0.31 | 0.28 | -1.1% |
| Oil | 0.07 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.5% |
| Total | 1.80 | 1.81 | 1.85 | 1.86 | 1.90 | 1.91 | 1.96 | 1.99 | 2.07 | 2.09 | 2.16 | 2.17 | 2.23 | 0.9% |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 44.87 | 45.10 | 46.91 | 47.17 | 48.79 | 49.00 | 50.68 | 51.03 | 52.63 | 53.08 | 55.18 | 55.41 | 57.36 | 1.3% |
| Carbon Dioxide | 164.52 | 165.36 | 172.02 | 172.97 | 178.88 | 179.67 | 185.82 | 187.11 | 192.96 | 194.63 | 202.31 | 203.17 | 210.32 | 1.3% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.25 | 0.25 | 0.25 | 0.5% |

**Table 71. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/Rocky Mountain Area, Arizon, New Mexico, Southern Nevada**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 72. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/California**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.69 | 6.41 | 6.41 | 6.41 | 6.41 | 6.41 | 6.41 |
| Other Fossil Steam 2/ | 19.67 | 19.67 | 19.67 | 19.67 | 19.67 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 |
| Combined Cycle | 2.14 | 4.01 | 6.23 | 7.15 | 7.79 | 8.67 | 9.99 | 13.01 | 14.58 | 16.02 | 17.80 | 19.93 | 21.72 |
| Combustion Turbine/Diesel | 4.35 | 5.89 | 7.23 | 7.61 | 9.65 | 9.58 | 9.54 | 9.62 | 9.62 | 9.62 | 9.62 | 9.62 | 9.62 |
| Nuclear Power | 5.33 | 5.33 | 5.33 | 5.35 | 5.35 | 5.40 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 |
| Pumped Storage/Other 3/ | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 15.40 | 15.50 | 15.64 | 15.96 | 15.86 | 16.31 | 16.44 | 16.63 | 16.64 | 16.64 | 16.65 | 16.65 | 16.66 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.07 | 0.11 | 0.21 | 0.31 | 0.40 | 0.49 | 0.57 |
| Total Capacity | 55.68 | 59.19 | 62.89 | 64.52 | 67.15 | 67.95 | 70.04 | 74.09 | 75.77 | 77.30 | 79.18 | 81.41 | 83.29 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 2.22 | 3.15 | 3.78 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 1.34 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.14 | 0.45 | 0.47 | 0.81 | 0.81 | 0.82 | 0.82 | 0.82 | 0.83 | 0.83 | 0.84 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 3.70 | 4.98 | 5.63 | 6.49 | 6.49 | 6.50 | 6.50 | 6.51 | 6.51 | 6.52 | 6.52 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.64 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 1.68 | 4.70 | 6.27 | 7.71 | 9.49 | 11.62 | 13.41 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.33 | 2.37 | 2.37 | 2.37 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.23 | 0.42 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.07 | 0.11 | 0.21 | 0.31 | 0.40 | 0.49 | 0.57 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.33 | 2.42 | 2.90 | 4.99 | 9.04 | 10.71 | 12.24 | 14.12 | 16.34 | 18.22 |
| Cumulative Total Additions | 0.00 | 0.00 | 3.70 | 5.31 | 8.05 | 9.39 | 11.49 | 15.54 | 17.22 | 18.75 | 20.63 | 22.86 | 24.74 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.70 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Combined Heat and Power 8/ Capacity | | | | | | | | | | | | | |

**Table 72. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/California**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Petroleum | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Natural Gas | 2.42 | 2.46 | 2.55 | 2.61 | 2.66 | 2.74 | 2.82 | 2.90 | 2.97 | 3.05 | 3.12 | 3.19 | 3.25 |
| Other Gaseous Fuels | 0.23 | 0.23 | 0.23 | 0.23 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Renewable Sources 4/ | 0.17 | 0.17 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 |
| Other | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Total | 3.14 | 3.18 | 3.27 | 3.34 | 3.41 | 3.49 | 3.58 | 3.66 | 3.75 | 3.84 | 3.91 | 3.99 | 4.05 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 |
| | | | | | | | | | | | | | |
| Electricity Demand | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 71.08 | 70.74 | 75.94 | 78.98 | 80.69 | 81.57 | 82.37 | 82.97 | 83.81 | 84.10 | 84.64 | 85.23 | 86.31 |
| Commercial/Other | 105.72 | 108.17 | 115.11 | 119.96 | 125.11 | 129.23 | 132.95 | 136.47 | 140.00 | 143.64 | 147.51 | 151.69 | 156.34 |
| Industrial | 58.43 | 56.24 | 57.23 | 60.08 | 63.22 | 64.32 | 65.83 | 67.55 | 69.55 | 71.13 | 73.29 | 75.27 | 76.97 |
| Transportation | 1.84 | 1.93 | 2.13 | 2.19 | 2.24 | 2.31 | 2.37 | 2.44 | 2.51 | 2.58 | 2.66 | 2.74 | 2.83 |
| Total Sales | 237.06 | 237.08 | 250.42 | 261.21 | 271.26 | 277.43 | 283.52 | 289.43 | 295.87 | 301.46 | 308.10 | 314.93 | 322.44 |
| | | | | | | | | | | | | | |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 0.07 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gross International Exports | 1.97 | 1.97 | 1.27 | 1.32 | 1.36 | 1.41 | 1.46 | 1.51 | 1.56 | 1.61 | 1.67 | 1.67 | 1.67 |
| Gross Interregional Electricity Imports | 54.95 | 63.35 | 58.03 | 73.63 | 71.32 | 70.03 | 66.76 | 60.93 | 58.85 | 59.02 | 55.63 | 52.79 | 46.36 |
| Gross Interregional Electricity Exports | 15.90 | 26.31 | 14.82 | 10.09 | 8.52 | 7.97 | 7.97 | 7.97 | 7.97 | 7.97 | 7.18 | 6.39 | 5.59 |
| Purchases from Combined Heat and Power 8/ | 3.65 | 3.39 | 4.14 | 4.38 | 4.53 | 4.82 | 5.10 | 5.39 | 5.66 | 5.96 | 6.20 | 6.44 | 6.65 |
| Electric Power Sector Generation for Customers | 191.77 | 184.23 | 188.77 | 179.89 | 191.77 | 198.96 | 208.18 | 222.98 | 232.04 | 237.98 | 247.85 | 258.34 | 272.27 |
| Total Net Energy for Load | 232.58 | 222.75 | 234.83 | 246.49 | 257.73 | 264.43 | 270.62 | 279.82 | 287.02 | 293.38 | 300.83 | 309.51 | 318.01 |
| | | | | | | | | | | | | | |
| Generation by Fuel Type | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 27.55 | 27.78 | 36.35 | 36.00 | 37.00 | 37.87 | 43.18 | 49.54 | 48.95 | 48.95 | 48.95 | 48.95 | 48.95 |
| Petroleum | 2.21 | 2.69 | 0.75 | 0.74 | 0.75 | 0.20 | 0.06 | 0.06 | 0.06 | 0.33 | 2.03 | 4.04 | 2.31 |
| Natural Gas | 87.87 | 96.48 | 99.21 | 84.64 | 94.08 | 97.78 | 100.48 | 104.74 | 113.72 | 118.68 | 126.18 | 133.03 | 147.84 |
| Nuclear | 43.50 | 41.09 | 42.34 | 42.55 | 42.61 | 43.11 | 43.42 | 43.49 | 43.55 | 43.62 | 43.69 | 43.75 | 43.82 |
| Pumped Storage/Other 3/ | -0.64 | -0.26 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 |
| Renewable Sources 4/ | 57.12 | 42.85 | 54.50 | 60.62 | 61.35 | 63.61 | 64.50 | 65.39 | 65.40 | 65.42 | 65.43 | 65.42 | 65.42 |
| Total Generation | 217.63 | 210.64 | 232.71 | 224.10 | 235.35 | 242.13 | 251.20 | 262.77 | 271.25 | 276.56 | 285.84 | 294.76 | 307.90 |
| Sales to Customers | 214.30 | 206.98 | 226.80 | 218.13 | 229.37 | 236.28 | 245.34 | 256.91 | 265.39 | 270.70 | 279.98 | 288.90 | 302.04 |
| Generation for Own Use | 3.32 | 3.65 | 5.90 | 5.97 | 5.98 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 | 0.13 | 0.15 | 0.19 | 0.23 | 0.27 | 0.31 | 0.35 |
| | | | | | | | | | | | | | |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 0.47 | 0.46 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 |
| Petroleum | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Natural Gas | 14.68 | 14.63 | 15.80 | 16.29 | 16.77 | 17.39 | 18.00 | 18.62 | 19.21 | 19.84 | 20.34 | 20.84 | 21.29 |
| Other Gaseous Fuels | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Renewable Sources 4/ | 0.74 | 0.74 | 0.73 | 0.76 | 0.79 | 0.81 | 0.82 | 0.84 | 0.87 | 0.90 | 0.93 | 0.97 | 1.00 |
| Other | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Total | 16.90 | 16.85 | 18.01 | 18.54 | 19.05 | 19.68 | 20.31 | 20.95 | 21.56 | 22.22 | 22.76 | 23.29 | 23.77 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.12 |
| | | | | | | | | | | | | | |
| Sales to Utilities | 3.65 | 3.39 | 4.14 | 4.38 | 4.53 | 4.82 | 5.10 | 5.39 | 5.66 | 5.96 | 6.20 | 6.44 | 6.65 |
| Generation for Own Use | 13.35 | 13.56 | 13.98 | 14.26 | 14.62 | 14.97 | 15.32 | 15.67 | 16.01 | 16.38 | 16.68 | 16.98 | 17.25 |

**Table 72. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/California**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 11.1 | 14.5 | 12.4 | 11.5 | 11.0 | 10.9 | 10.8 | 10.9 | 11.0 | 11.2 | 11.2 | 11.2 | 10.9 |
| Commercial | 10.4 | 14.3 | 11.7 | 10.8 | 10.2 | 10.1 | 9.9 | 10.0 | 10.0 | 10.1 | 10.1 | 10.0 | 9.7 |
| Industrial | 7.4 | 10.5 | 7.2 | 6.7 | 6.3 | 6.2 | 6.1 | 6.2 | 6.2 | 6.2 | 6.3 | 6.2 | 6.0 |
| Transportation | 10.1 | 10.6 | 11.0 | 9.6 | 9.6 | 9.6 | 9.5 | 9.4 | 9.5 | 9.4 | 9.3 | 9.2 | 8.9 |
| All Sectors Average | 9.9 | 13.4 | 10.9 | 10.0 | 9.5 | 9.4 | 9.3 | 9.4 | 9.4 | 9.5 | 9.5 | 9.4 | 9.1 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 6.7 | 10.5 | 8.0 | 7.1 | 6.5 | 6.4 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.1 | 5.8 |
| Transmission | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Distribution | 2.5 | 2.4 | 2.3 | 2.3 | 2.4 | 2.4 | 2.4 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 0.30 | 0.30 | 0.37 | 0.36 | 0.38 | 0.38 | 0.43 | 0.49 | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 |
| Natural Gas | 0.91 | 1.00 | 0.93 | 0.78 | 0.85 | 0.87 | 0.87 | 0.86 | 0.92 | 0.94 | 0.99 | 1.02 | 1.12 |
| Oil | 0.24 | 0.25 | 0.38 | 0.37 | 0.37 | 0.36 | 0.36 | 0.33 | 0.33 | 0.32 | 0.33 | 0.33 | 0.31 |
| Total | 1.45 | 1.55 | 1.67 | 1.51 | 1.59 | 1.61 | 1.66 | 1.68 | 1.73 | 1.75 | 1.80 | 1.84 | 1.91 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 25.46 | 26.67 | 25.34 | 22.78 | 24.26 | 24.72 | 26.03 | 27.52 | 28.27 | 28.70 | 29.66 | 30.52 | 31.76 |
| Carbon Dioxide | 93.36 | 97.79 | 92.90 | 83.51 | 88.95 | 90.65 | 95.45 | 100.91 | 103.65 | 105.23 | 108.76 | 111.90 | 116.47 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 0.13 | 0.13 | 0.09 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |

**Table 72. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/California**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 6.41 | 6.76 | 7.19 | 7.44 | 7.74 | 8.03 | 8.30 | 8.58 | 8.88 | 9.20 | 9.48 | 9.73 | 9.97 | 2.9% |
| Other Fossil Steam 2/ | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | -0.1% |
| Combined Cycle | 24.26 | 24.52 | 24.98 | 26.24 | 28.13 | 29.18 | 29.70 | 30.22 | 30.87 | 31.43 | 32.04 | 33.21 | 34.06 | 9.3% |
| Combustion Turbine/Diesel | 9.62 | 11.19 | 12.97 | 13.76 | 13.95 | 14.54 | 15.61 | 16.84 | 18.17 | 19.71 | 21.06 | 21.71 | 22.87 | 5.8% |
| Nuclear Power | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 0.1% |
| Pumped Storage/Other 3/ | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 16.66 | 16.83 | 16.97 | 17.12 | 17.20 | 17.30 | 17.47 | 17.64 | 17.78 | 17.92 | 18.06 | 18.20 | 18.29 | 0.7% |
| Distributed Generation 5/ | 0.67 | 0.97 | 1.29 | 1.62 | 1.96 | 2.29 | 2.61 | 2.94 | 3.29 | 3.66 | 4.03 | 4.41 | 4.79 | N/A |
| Total Capacity | 85.92 | 88.59 | 91.71 | 94.49 | 97.29 | 99.65 | 102.01 | 104.54 | 107.30 | 110.24 | 112.99 | 115.56 | 118.30 | 2.9% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | 4.30 | N/A |
| Combustion Turbine/Diesel | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.84 | 0.85 | 0.86 | 0.87 | 0.87 | 0.88 | 0.89 | 0.90 | 0.90 | 0.91 | 0.92 | 0.93 | 0.93 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 6.53 | 6.53 | 6.54 | 6.55 | 6.56 | 6.56 | 6.57 | 6.58 | 6.59 | 6.59 | 6.60 | 6.61 | 6.62 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 1.35 | 1.71 | 2.14 | 2.39 | 2.69 | 2.97 | 3.25 | 3.53 | 3.83 | 4.15 | 4.43 | 4.67 | 4.92 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 15.95 | 16.21 | 16.67 | 17.93 | 19.82 | 20.87 | 21.39 | 21.91 | 22.56 | 23.12 | 23.73 | 24.90 | 25.74 | N/A |
| Combustion Turbine/Diesel | 2.45 | 4.03 | 5.81 | 6.60 | 6.79 | 7.37 | 8.45 | 9.68 | 11.00 | 12.55 | 13.89 | 14.55 | 15.70 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.43 | 0.58 | 0.72 | 0.86 | 0.93 | 1.03 | 1.19 | 1.36 | 1.48 | 1.62 | 1.75 | 1.88 | 1.97 | N/A |
| Distributed Generation 5/ | 0.67 | 0.97 | 1.29 | 1.62 | 1.96 | 2.29 | 2.61 | 2.94 | 3.29 | 3.66 | 4.03 | 4.41 | 4.79 | N/A |
| Total Unplanned Additions | 20.85 | 23.50 | 26.62 | 29.39 | 32.18 | 34.53 | 36.89 | 39.41 | 42.16 | 45.10 | 47.84 | 50.40 | 53.13 | N/A |
| Cumulative Total Additions | 27.37 | 30.04 | 33.16 | 35.94 | 38.74 | 41.10 | 43.46 | 45.99 | 48.75 | 51.69 | 54.44 | 57.01 | 59.75 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 3/ | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | N/A |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combustion Turbine/Diesel | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | N/A |
| Total | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | N/A |
| Combined Heat and Power 8/ Capacity | | | | | | | | | | | | | | |
| Coal | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.0% |
| Petroleum | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.6% |

**Table 72. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/California**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Natural Gas | 3.31 | 3.37 | 3.44 | 3.53 | 3.61 | 3.72 | 3.83 | 3.96 | 4.09 | 4.24 | 4.39 | 4.55 | 4.71 | 2.7% |
| Other Gaseous Fuels | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.25 | 0.25 | 0.25 | 0.25 | 0.3% |
| Renewable Sources 4/ | 0.25 | 0.26 | 0.27 | 0.27 | 0.28 | 0.28 | 0.29 | 0.30 | 0.30 | 0.31 | 0.32 | 0.33 | 0.33 | 2.7% |
| Other | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | N/A |
| Total | 4.12 | 4.19 | 4.27 | 4.36 | 4.45 | 4.57 | 4.69 | 4.82 | 4.97 | 5.13 | 5.28 | 5.45 | 5.62 | 2.4% |
| Other End Use Generators | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 2.5% |
| Electricity Demand (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 86.83 | 87.47 | 88.05 | 88.78 | 89.14 | 89.82 | 90.59 | 91.57 | 92.00 | 92.63 | 93.25 | 94.11 | 94.44 | 1.2% |
| Commercial/Other | 161.16 | 166.04 | 170.67 | 175.43 | 180.41 | 185.70 | 191.28 | 196.84 | 202.47 | 208.08 | 213.77 | 219.61 | 225.50 | 3.1% |
| Industrial | 78.58 | 80.23 | 81.49 | 82.59 | 83.89 | 85.32 | 86.89 | 88.25 | 89.68 | 91.39 | 93.15 | 95.13 | 96.93 | 2.3% |
| Transportation | 2.91 | 3.00 | 3.08 | 3.17 | 3.27 | 3.38 | 3.48 | 3.60 | 3.72 | 3.84 | 3.96 | 4.08 | 4.20 | 3.3% |
| Total Sales | 329.48 | 336.73 | 343.30 | 349.97 | 356.72 | 364.22 | 372.25 | 380.25 | 387.88 | 395.94 | 404.13 | 412.93 | 421.07 | 2.4% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Gross International Exports | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | -0.7% |
| Gross Interregional Electricity Imports | 40.83 | 39.03 | 36.56 | 29.53 | 26.97 | 19.89 | 19.23 | 15.10 | 14.74 | 10.51 | 12.47 | 11.11 | 13.26 | -6.3% |
| Gross Interregional Electricity Exports | 4.79 | 3.99 | 3.19 | 2.39 | 1.59 | 0.80 | 0.40 | 0.00 | 0.00 | 0.00 | 0.04 | 0.17 | 0.33 | -16.7% |
| Purchases from Combined Heat and Power 8/ | 6.87 | 7.09 | 7.32 | 7.58 | 7.84 | 8.15 | 8.49 | 8.87 | 9.24 | 9.68 | 10.09 | 10.59 | 11.03 | 5.0% |
| Electric Power Sector Generation for Customers | 285.19 | 293.56 | 301.88 | 315.05 | 325.29 | 339.07 | 347.22 | 358.57 | 367.26 | 379.42 | 386.03 | 396.46 | 403.20 | 3.3% |
| Total Net Energy for Load | 326.43 | 334.02 | 340.91 | 348.10 | 356.84 | 364.65 | 372.87 | 380.87 | 389.57 | 397.93 | 406.89 | 416.33 | 425.50 | 2.7% |
| Generation by Fuel Type (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 48.95 | 51.60 | 54.81 | 56.66 | 58.87 | 61.01 | 63.06 | 65.13 | 67.34 | 69.76 | 71.83 | 73.66 | 75.46 | 4.3% |
| Petroleum | 0.49 | 2.85 | 2.57 | 2.78 | 2.42 | 2.08 | 1.29 | 1.35 | 5.35 | 0.75 | 3.97 | 8.65 | 10.95 | 6.0% |
| Natural Gas | 161.44 | 163.69 | 168.22 | 178.20 | 184.84 | 196.35 | 202.58 | 211.10 | 212.33 | 225.93 | 226.32 | 229.43 | 230.75 | 3.7% |
| Nuclear | 43.89 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 0.3% |
| Pumped Storage/Other 3/ | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | 2.3% |
| Renewable Sources 4/ | 65.42 | 66.31 | 67.00 | 67.83 | 68.11 | 68.64 | 69.67 | 70.71 | 71.39 | 72.13 | 72.86 | 73.54 | 74.28 | 2.3% |
| Total Generation | 319.75 | 327.92 | 336.07 | 348.94 | 357.71 | 371.55 | 380.06 | 391.76 | 399.89 | 412.04 | 418.46 | 428.76 | 434.93 | 3.1% |
| Sales to Customers | 313.89 | 322.06 | 330.21 | 343.08 | 351.85 | 365.69 | 374.20 | 385.90 | 394.03 | 406.18 | 412.59 | 422.90 | 429.07 | 3.1% |
| Generation for Own Use | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 5.86 | 2.0% |
| Distributed Generation 5/ | 0.39 | 0.52 | 0.66 | 0.81 | 0.96 | 1.10 | 1.24 | 1.39 | 1.54 | 1.70 | 1.86 | 2.03 | 2.20 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.0% |
| Petroleum | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.5% |
| Natural Gas | 21.77 | 22.25 | 22.81 | 23.44 | 24.10 | 24.86 | 25.71 | 26.71 | 27.70 | 28.84 | 29.93 | 31.21 | 32.35 | 3.4% |
| Other Gaseous Fuels | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 1.4% |
| Renewable Sources 4/ | 1.02 | 1.05 | 1.07 | 1.10 | 1.12 | 1.14 | 1.17 | 1.19 | 1.22 | 1.24 | 1.27 | 1.30 | 1.33 | 2.5% |
| Other | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.0% |
| Total | 24.28 | 24.78 | 25.37 | 26.02 | 26.70 | 27.49 | 28.37 | 29.39 | 30.40 | 31.57 | 32.69 | 34.00 | 35.16 | 3.1% |
| Other End Use Generators | 0.12 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 0.15 | 1.6% |
| Sales to Utilities | 6.87 | 7.09 | 7.32 | 7.58 | 7.84 | 8.15 | 8.49 | 8.87 | 9.24 | 9.68 | 10.09 | 10.59 | 11.03 | 5.0% |
| Generation for Own Use | 17.53 | 17.82 | 18.17 | 18.57 | 18.98 | 19.47 | 20.00 | 20.65 | 21.29 | 22.03 | 22.74 | 23.55 | 24.28 | 2.5% |
| End-Use Prices (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 10.8 | 10.8 | 10.9 | 11.0 | 11.0 | 11.0 | 10.9 | 10.9 | 10.9 | 11.0 | 11.0 | 11.1 | 11.3 | -1.0% |

**Table 72. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/California**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Commercial | 9.6 | 9.6 | 9.6 | 9.7 | 9.7 | 9.7 | 9.6 | 9.6 | 9.6 | 9.6 | 9.6 | 9.7 | 9.8 | -1.6% |
| Industrial | 5.9 | 5.9 | 6.0 | 6.0 | 6.0 | 6.0 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 6.0 | 6.0 | -2.3% |
| Transportation | 8.8 | 8.7 | 8.7 | 8.7 | 8.6 | 8.4 | 8.3 | 8.2 | 8.1 | 8.0 | 7.9 | 7.9 | 7.9 | -1.2% |
| All Sectors Average | 9.0 | 9.0 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.0 | 9.0 | 9.0 | 9.1 | 9.1 | 9.2 | -1.6% |
| | | | | | | | | | | | | | | |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.7 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.7 | 5.8 | -2.4% |
| Transmission | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.5% |
| Distribution | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 0.3% |
| | | | | | | | | | | | | | | |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 0.48 | 0.51 | 0.53 | 0.55 | 0.57 | 0.59 | 0.61 | 0.62 | 0.64 | 0.66 | 0.68 | 0.70 | 0.71 | 3.7% |
| Natural Gas | 1.19 | 1.21 | 1.24 | 1.31 | 1.34 | 1.42 | 1.47 | 1.53 | 1.54 | 1.64 | 1.64 | 1.66 | 1.67 | 2.1% |
| Oil | 0.29 | 0.31 | 0.31 | 0.31 | 0.30 | 0.29 | 0.29 | 0.30 | 0.32 | 0.29 | 0.31 | 0.35 | 0.36 | 1.5% |
| Total | 1.97 | 2.03 | 2.09 | 2.17 | 2.21 | 2.31 | 2.36 | 2.45 | 2.50 | 2.59 | 2.64 | 2.70 | 2.74 | 2.4% |
| | | | | | | | | | | | | | | |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 32.74 | 34.05 | 35.31 | 36.87 | 37.89 | 39.62 | 40.69 | 42.19 | 43.59 | 45.00 | 46.09 | 47.59 | 48.54 | 2.5% |
| Carbon Dioxide | 120.05 | 124.86 | 129.46 | 135.18 | 138.94 | 145.28 | 149.21 | 154.71 | 159.81 | 165.00 | 169.00 | 174.50 | 177.99 | 2.5% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | -0.2% |

**Table 72. Electric Power Projections for EMM Region**
**Western Electricity Coordinating Council/California**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 73. Electric Power Projections for EMM Region**
**United States**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | |
| Coal Steam | 310.59 | 310.48 | 310.81 | 310.54 | 309.26 | 308.33 | 307.17 | 307.38 | 306.90 | 308.37 | 311.54 | 314.51 | 315.26 |
| Other Fossil Steam 2/ | 136.00 | 134.97 | 133.80 | 132.50 | 132.18 | 119.78 | 101.22 | 94.41 | 88.44 | 85.99 | 84.60 | 84.11 | 83.45 |
| Combined Cycle | 46.21 | 66.17 | 103.70 | 124.41 | 129.99 | 134.75 | 137.15 | 144.63 | 149.99 | 163.03 | 176.07 | 189.57 | 201.23 |
| Combustion Turbine/Diesel | 82.14 | 102.59 | 126.24 | 129.78 | 131.80 | 132.08 | 130.55 | 128.60 | 129.27 | 129.84 | 133.46 | 133.83 | 137.57 |
| Nuclear Power | 97.98 | 98.15 | 98.68 | 98.98 | 99.64 | 100.15 | 100.40 | 99.93 | 99.11 | 99.13 | 99.29 | 99.29 | 99.43 |
| Pumped Storage/Other 3/ | 19.80 | 19.86 | 20.20 | 20.27 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 |
| Renewable Sources 4/ | 88.64 | 90.88 | 91.99 | 93.99 | 94.15 | 95.33 | 95.99 | 96.51 | 96.74 | 97.36 | 97.57 | 98.05 | 98.37 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.28 | 0.37 | 0.58 | 0.91 | 1.29 | 1.69 | 2.27 | 2.68 |
| Total Capacity | 781.35 | 823.11 | 885.41 | 910.47 | 917.43 | 911.05 | 893.21 | 892.41 | 891.76 | 905.43 | 924.67 | 942.10 | 958.49 |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 36.86 | 57.03 | 62.61 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 23.70 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.07 | 0.09 | 0.11 | 0.14 | 0.16 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.96 | 2.85 | 3.05 | 3.80 | 4.08 | 4.34 | 4.49 | 4.73 | 4.86 | 5.07 | 5.23 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Planned Additions | 0.00 | 0.00 | 61.82 | 87.97 | 93.75 | 95.05 | 95.34 | 95.61 | 95.79 | 96.05 | 96.21 | 96.44 | 96.61 |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.97 | 2.20 | 2.20 | 3.68 | 6.85 | 9.82 | 10.57 |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.23 | 6.63 | 14.45 | 19.82 | 32.86 | 46.05 | 59.55 | 71.21 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.00 | 0.33 | 2.37 | 4.48 | 4.48 | 5.11 | 7.25 | 8.37 | 12.27 | 13.18 | 17.32 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.36 | 0.59 | 0.86 | 0.94 | 1.31 | 1.42 | 1.69 | 1.86 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.28 | 0.37 | 0.58 | 0.91 | 1.29 | 1.69 | 2.27 | 2.68 |
| Total Unplanned Additions | 0.00 | 0.00 | 0.00 | 0.33 | 2.45 | 9.34 | 13.04 | 23.21 | 31.12 | 47.51 | 68.28 | 86.51 | 103.64 |
| Cumulative Total Additions | 0.00 | 0.00 | 61.82 | 88.30 | 96.20 | 104.39 | 108.38 | 118.82 | 126.90 | 143.56 | 164.48 | 182.95 | 200.26 |
| Cumulative Retirements 7/ | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 1.22 | 2.15 | 4.28 | 5.31 | 5.79 | 5.79 | 5.79 | 5.79 | 5.79 |
| Other Fossil Steam 3/ | 0.00 | 0.00 | 0.07 | 0.93 | 1.25 | 13.67 | 32.23 | 39.04 | 45.01 | 47.46 | 48.85 | 49.34 | 50.00 |
| Combined Cycle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.34 | 0.34 | 0.34 | 0.50 | 0.50 | 0.50 |
| Combustion Turbine/Diesel | 0.00 | 0.00 | 0.13 | 1.11 | 1.14 | 2.96 | 4.49 | 7.08 | 8.54 | 9.10 | 9.37 | 9.91 | 10.31 |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.77 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.14 | 0.15 | 0.15 |
| Total | 0.00 | 0.00 | 0.20 | 2.04 | 3.72 | 18.89 | 41.11 | 52.65 | 61.62 | 64.63 | 66.48 | 67.51 | 68.57 |
| Combined Heat and Power 8/ | | | | | | | | | | | | | |
| Capacity | | | | | | | | | | | | | |

**Table 73. Electric Power Projections for EMM Region**
**United States**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 |
| Petroleum | 0.89 | 0.89 | 0.89 | 0.89 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Natural Gas | 14.20 | 14.48 | 14.96 | 15.33 | 15.61 | 16.08 | 16.55 | 17.02 | 17.47 | 17.95 | 18.34 | 18.72 | 19.07 |
| Other Gaseous Fuels | 2.13 | 2.13 | 2.13 | 2.13 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 |
| Renewable Sources 4/ | 4.69 | 4.69 | 4.69 | 4.93 | 5.11 | 5.24 | 5.35 | 5.51 | 5.67 | 5.89 | 6.16 | 6.40 | 6.61 |
| Other | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 |
| Total | 27.36 | 27.64 | 28.12 | 28.73 | 29.34 | 29.95 | 30.53 | 31.15 | 31.77 | 32.46 | 33.12 | 33.74 | 34.30 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 1.11 | 1.12 | 1.13 | 1.15 | 1.17 | 1.20 | 1.24 | 1.28 | 1.33 | 1.40 | 1.47 | 1.48 | 1.49 |
| | | | | | | | | | | | | | |
| Electricity Demand | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Residential | 1187.52 | 1198.46 | 1231.33 | 1278.31 | 1305.94 | 1326.96 | 1350.40 | 1374.80 | 1403.38 | 1421.64 | 1444.14 | 1462.73 | 1485.66 |
| Commercial/Other | 1151.26 | 1190.69 | 1228.74 | 1246.73 | 1282.37 | 1313.72 | 1344.96 | 1376.19 | 1407.36 | 1437.84 | 1470.00 | 1503.26 | 1537.05 |
| Industrial | 1055.09 | 987.32 | 928.86 | 976.36 | 1002.29 | 1015.88 | 1038.95 | 1068.92 | 1100.52 | 1124.81 | 1156.05 | 1184.97 | 1210.73 |
| Transportation | 20.96 | 21.54 | 22.31 | 22.83 | 23.35 | 23.97 | 24.57 | 25.18 | 25.83 | 26.54 | 27.27 | 28.06 | 28.86 |
| Total Sales | 3414.83 | 3398.00 | 3411.24 | 3524.23 | 3613.96 | 3680.55 | 3758.88 | 3845.09 | 3937.09 | 4010.83 | 4097.47 | 4179.02 | 4262.30 |
| | | | | | | | | | | | | | |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | |
| Gross International Imports | 43.76 | 38.48 | 39.41 | 46.25 | 46.87 | 48.27 | 39.19 | 41.32 | 43.83 | 41.87 | 44.50 | 42.98 | 42.75 |
| Gross International Exports | 13.23 | 18.18 | 13.10 | 12.75 | 16.55 | 16.67 | 16.80 | 16.93 | 17.06 | 17.20 | 16.38 | 15.41 | 14.44 |
| Gross Interregional Electricity Imports | 301.45 | 314.49 | 304.44 | 332.57 | 330.24 | 323.42 | 316.96 | 313.37 | 306.26 | 312.62 | 297.73 | 284.58 | 265.06 |
| Gross Interregional Electricity Exports | 305.31 | 319.55 | 308.80 | 337.16 | 335.03 | 328.12 | 321.75 | 318.16 | 311.00 | 317.61 | 302.76 | 289.68 | 270.16 |
| Purchases from Combined Heat and Power 8/ | 29.05 | 27.09 | 31.89 | 33.84 | 35.29 | 37.29 | 39.19 | 41.22 | 43.21 | 45.46 | 47.50 | 49.46 | 51.17 |
| Electric Power Sector Generation for Customers | 3460.48 | 3370.34 | 3415.72 | 3516.60 | 3609.98 | 3677.11 | 3762.05 | 3852.55 | 3939.54 | 4016.68 | 4106.64 | 4196.21 | 4284.10 |
| Total Net Energy for Load | 3516.21 | 3412.68 | 3469.56 | 3579.35 | 3670.80 | 3741.29 | 3818.84 | 3913.37 | 4004.78 | 4081.80 | 4177.23 | 4268.13 | 4358.49 |
| | | | | | | | | | | | | | |
| Generation by Fuel Type | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | |
| Coal | 1943.11 | 1880.96 | 1895.93 | 1928.81 | 1970.69 | 2019.42 | 2085.41 | 2150.40 | 2165.83 | 2189.88 | 2222.31 | 2249.87 | 2264.37 |
| Petroleum | 105.19 | 119.81 | 36.62 | 31.34 | 34.44 | 34.38 | 35.14 | 36.14 | 40.65 | 38.58 | 42.53 | 43.54 | 45.21 |
| Natural Gas | 518.00 | 535.44 | 612.10 | 648.04 | 683.64 | 685.92 | 698.71 | 706.39 | 783.11 | 832.45 | 876.17 | 926.45 | 989.51 |
| Nuclear | 753.89 | 768.83 | 777.23 | 780.83 | 787.18 | 792.85 | 795.65 | 804.40 | 797.14 | 798.07 | 800.19 | 800.81 | 802.59 |
| Pumped Storage/Other 3/ | -3.26 | -6.11 | -0.91 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 |
| Renewable Sources 4/ | 320.43 | 262.85 | 321.69 | 365.05 | 373.86 | 382.28 | 386.79 | 389.51 | 391.41 | 394.43 | 396.47 | 399.19 | 400.67 |
| Total Generation | 3637.37 | 3561.79 | 3642.66 | 3753.12 | 3848.86 | 3913.91 | 4000.76 | 4085.90 | 4177.20 | 4252.46 | 4336.73 | 4418.92 | 4501.41 |
| Sales to Customers | 3615.93 | 3531.84 | 3601.58 | 3711.95 | 3807.53 | 3872.60 | 3959.36 | 4044.41 | 4135.77 | 4211.03 | 4295.31 | 4377.61 | 4460.11 |
| Generation for Own Use | 21.44 | 29.94 | 41.08 | 41.18 | 41.33 | 41.31 | 41.40 | 41.49 | 41.43 | 41.43 | 41.43 | 41.31 | 41.30 |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.36 | 0.57 | 0.76 | 0.91 | 1.08 | 1.25 | 1.50 | 1.69 |
| | | | | | | | | | | | | | |
| Combined Heat and Power | | | | | | | | | | | | | |
| Coal | 23.15 | 23.09 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 |
| Petroleum | 5.72 | 5.61 | 6.14 | 6.14 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 |
| Natural Gas | 83.03 | 82.77 | 89.35 | 92.14 | 94.87 | 98.37 | 101.84 | 105.32 | 108.68 | 112.19 | 115.05 | 117.88 | 120.44 |
| Other Gaseous Fuels | 6.07 | 5.69 | 5.93 | 5.93 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 |
| Renewable Sources 4/ | 31.18 | 31.13 | 30.83 | 32.20 | 33.25 | 34.04 | 34.68 | 35.58 | 36.53 | 37.83 | 39.38 | 40.81 | 42.01 |
| Other | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 |
| Total | 160.31 | 159.47 | 166.58 | 170.73 | 175.66 | 179.94 | 184.06 | 188.43 | 192.74 | 197.55 | 201.97 | 206.22 | 209.99 |
| | | | | | | | | | | | | | |
| Other End Use Generators | 4.24 | 4.25 | 4.32 | 4.35 | 4.40 | 4.46 | 4.54 | 4.63 | 4.74 | 4.88 | 5.05 | 5.07 | 5.09 |
| | | | | | | | | | | | | | |
| Sales to Utilities | 29.05 | 27.09 | 31.89 | 33.84 | 35.29 | 37.29 | 39.19 | 41.22 | 43.21 | 45.46 | 47.50 | 49.46 | 51.17 |
| Generation for Own Use | 135.50 | 136.64 | 139.01 | 141.24 | 144.76 | 147.12 | 149.41 | 151.84 | 154.27 | 156.98 | 159.52 | 161.83 | 163.91 |

**Table 73. Electric Power Projections for EMM Region**
**United States**

| Electricity Supply and Demand | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| End-Use Prices | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Residential | 8.4 | 8.6 | 8.2 | 7.9 | 7.8 | 7.8 | 7.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.7 | 7.7 |
| Commercial | 7.5 | 7.9 | 7.5 | 7.1 | 7.0 | 6.9 | 6.7 | 6.6 | 6.6 | 6.7 | 6.7 | 6.8 | 6.8 |
| Industrial | 4.6 | 4.8 | 4.4 | 4.4 | 4.4 | 4.3 | 4.3 | 4.3 | 4.3 | 4.4 | 4.3 | 4.3 | 4.3 |
| Transportation | 7.5 | 7.5 | 7.1 | 6.9 | 6.8 | 6.7 | 6.6 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.4 |
| All Sectors Average | 6.9 | 7.3 | 6.9 | 6.6 | 6.6 | 6.5 | 6.4 | 6.3 | 6.3 | 6.4 | 6.4 | 6.4 | 6.4 |
| Prices by Service Category | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | |
| Generation | 4.2 | 4.7 | 4.4 | 4.2 | 4.0 | 3.9 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 |
| Transmission | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| Distribution | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | |
| Coal | 20.62 | 20.16 | 19.38 | 19.74 | 20.14 | 20.63 | 21.30 | 21.97 | 22.15 | 22.40 | 22.71 | 22.96 | 23.11 |
| Natural Gas | 5.41 | 5.48 | 5.39 | 5.57 | 5.84 | 5.82 | 5.89 | 5.88 | 6.45 | 6.74 | 6.95 | 7.25 | 7.62 |
| Oil | 2.26 | 2.46 | 1.89 | 1.90 | 1.94 | 1.91 | 1.92 | 1.88 | 1.96 | 1.92 | 1.91 | 1.86 | 1.85 |
| Total | 28.30 | 28.10 | 26.67 | 27.22 | 27.92 | 28.36 | 29.12 | 29.73 | 30.56 | 31.06 | 31.57 | 32.07 | 32.57 |
| Emissions (million tons) 10/ | | | | | | | | | | | | | |
| Total Carbon | 684.49 | 673.95 | 638.88 | 650.24 | 666.56 | 679.88 | 700.12 | 719.03 | 734.40 | 745.65 | 758.77 | 770.78 | 781.47 |
| Carbon Dioxide | 2509.78 | 2471.15 | 2342.55 | 2384.20 | 2444.04 | 2492.89 | 2567.10 | 2636.45 | 2692.79 | 2734.07 | 2782.17 | 2826.20 | 2865.40 |
| Sulfur Dioxide | 11.19 | 10.63 | 10.71 | 10.73 | 10.61 | 10.71 | 10.80 | 10.58 | 10.13 | 9.93 | 9.57 | 9.20 | 8.95 |
| Nitrogen Oxide | 5.09 | 4.75 | 4.00 | 4.05 | 3.53 | 3.61 | 3.71 | 3.83 | 3.89 | 3.92 | 3.92 | 3.94 | 3.95 |

**Table 73. Electric Power Projections for EMM Region**
**United States**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electricity Generating Capacity 1/ | | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | | |
| Coal Steam | 317.95 | 320.88 | 328.11 | 331.57 | 337.02 | 340.65 | 345.55 | 348.36 | 350.57 | 355.82 | 361.68 | 366.56 | 375.78 | 0.8% |
| Other Fossil Steam 2/ | 81.33 | 80.45 | 79.54 | 79.30 | 78.71 | 78.66 | 78.56 | 78.34 | 78.14 | 77.73 | 77.73 | 77.72 | 77.32 | -2.3% |
| Combined Cycle | 212.26 | 223.63 | 228.78 | 233.58 | 240.94 | 246.55 | 254.57 | 259.34 | 269.96 | 275.42 | 286.63 | 291.73 | 301.38 | 6.5% |
| Combustion Turbine/Diesel | 137.75 | 142.00 | 144.94 | 147.32 | 149.55 | 151.76 | 154.47 | 157.94 | 164.25 | 168.66 | 173.27 | 174.88 | 179.09 | 2.3% |
| Nuclear Power | 99.81 | 99.26 | 99.48 | 99.59 | 99.59 | 99.59 | 99.59 | 99.59 | 99.59 | 99.59 | 99.59 | 99.59 | 99.59 | 0.1% |
| Pumped Storage/Other 3/ | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 20.33 | 0.1% |
| Fuel Cells | 0.17 | 0.18 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 33.2% |
| Renewable Sources 4/ | 98.98 | 99.46 | 100.05 | 100.44 | 100.89 | 101.11 | 101.73 | 102.25 | 102.63 | 103.01 | 103.54 | 104.04 | 104.56 | 0.6% |
| Distributed Generation 5/ | 3.17 | 4.01 | 4.94 | 5.89 | 7.03 | 8.06 | 9.12 | 10.14 | 11.21 | 12.34 | 13.52 | 14.60 | 15.79 | N/A |
| Total Capacity | 971.76 | 990.20 | 1006.36 | 1018.22 | 1034.26 | 1046.91 | 1064.12 | 1076.49 | 1096.89 | 1113.11 | 1136.51 | 1149.65 | 1174.06 | 1.5% |
| Cumulative Planned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | 63.14 | N/A |
| Combustion Turbine/Diesel | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | 27.79 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | N/A |
| Fuel Cells | 0.17 | 0.18 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | N/A |
| Renewable Sources 4/ | 5.54 | 5.67 | 5.81 | 5.95 | 6.13 | 6.19 | 6.31 | 6.43 | 6.45 | 6.48 | 6.50 | 6.52 | 6.54 | N/A |
| Distributed Generation 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total Planned Additions | 96.93 | 97.08 | 97.23 | 97.38 | 97.56 | 97.62 | 97.74 | 97.86 | 97.88 | 97.91 | 97.93 | 97.95 | 97.97 | N/A |
| Cumulative Unplanned Additions 6/ | | | | | | | | | | | | | | |
| Coal Steam | 13.25 | 16.71 | 23.93 | 27.39 | 32.84 | 37.77 | 42.67 | 45.47 | 48.53 | 53.79 | 59.64 | 64.52 | 74.01 | N/A |
| Other Fossil Steam 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Combined Cycle | 82.24 | 93.62 | 98.77 | 103.56 | 110.92 | 116.53 | 124.55 | 129.32 | 139.95 | 145.40 | 156.61 | 161.71 | 171.37 | N/A |
| Combustion Turbine/Diesel | 17.50 | 21.74 | 24.82 | 27.48 | 29.72 | 32.48 | 36.29 | 39.95 | 46.26 | 50.66 | 55.45 | 57.67 | 61.89 | N/A |
| Nuclear Power | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Pumped Storage/Other 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 2.16 | 2.50 | 2.96 | 3.20 | 3.47 | 3.63 | 4.13 | 4.53 | 4.89 | 5.25 | 5.76 | 6.23 | 6.74 | N/A |
| Distributed Generation 5/ | 3.17 | 4.01 | 4.94 | 5.89 | 7.03 | 8.06 | 9.12 | 10.14 | 11.21 | 12.34 | 13.52 | 14.60 | 15.79 | N/A |
| Total Unplanned Additions | 118.33 | 138.58 | 155.42 | 167.53 | 183.98 | 198.48 | 216.77 | 229.42 | 250.84 | 267.44 | 290.99 | 304.74 | 329.79 | N/A |
| Cumulative Total Additions | 215.26 | 235.66 | 252.65 | 264.92 | 281.54 | 296.10 | 314.51 | 327.28 | 348.73 | 365.34 | 388.92 | 402.69 | 427.76 | N/A |
| Cumulative Retirements 7/ | | | | | | | | | | | | | | |
| Coal Steam | 5.79 | 6.31 | 6.31 | 6.31 | 6.31 | 7.60 | 7.60 | 7.60 | 8.44 | 8.44 | 8.44 | 8.44 | 8.71 | N/A |
| Other Fossil Steam 3/ | 52.12 | 53.00 | 53.91 | 54.15 | 54.74 | 54.79 | 54.89 | 55.11 | 55.31 | 55.72 | 55.72 | 55.73 | 56.13 | N/A |
| Combined Cycle | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | N/A |
| Combustion Turbine/Diesel | 10.31 | 10.31 | 10.45 | 10.73 | 10.73 | 11.29 | 12.38 | 12.57 | 12.57 | 12.57 | 12.75 | 13.36 | 13.36 | N/A |
| Nuclear Power | 1.83 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | N/A |
| Pumped Storage | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 4/ | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | N/A |
| Total | 70.68 | 73.07 | 74.12 | 74.65 | 75.23 | 77.14 | 78.34 | 78.75 | 79.79 | 80.19 | 80.36 | 80.99 | 81.65 | N/A |
| Combined Heat and Power 8/ | | | | | | | | | | | | | | |
| Capacity | | | | | | | | | | | | | | |
| Coal | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 4.76 | 0.0% |
| Petroleum | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.01 | 1.01 | 1.01 | 1.02 | 1.02 | 0.6% |

**Table 73. Electric Power Projections for EMM Region**
**United States**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Natural Gas | 19.43 | 19.80 | 20.24 | 20.72 | 21.23 | 21.85 | 22.49 | 23.26 | 24.04 | 24.93 | 25.78 | 26.75 | 27.66 | 2.7% |
| Other Gaseous Fuels | 2.18 | 2.18 | 2.18 | 2.18 | 2.18 | 2.19 | 2.20 | 2.21 | 2.23 | 2.24 | 2.25 | 2.27 | 2.29 | 0.3% |
| Renewable Sources 4/ | 6.80 | 7.00 | 7.17 | 7.33 | 7.49 | 7.68 | 7.87 | 8.04 | 8.20 | 8.40 | 8.59 | 8.80 | 9.00 | 2.7% |
| Other | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | N/A |
| Total | 34.86 | 35.43 | 36.03 | 36.67 | 37.35 | 38.16 | 39.01 | 39.96 | 40.93 | 42.03 | 43.08 | 44.29 | 45.40 | 2.1% |
| Other End Use Generators | 1.50 | 1.51 | 1.54 | 1.56 | 1.59 | 1.62 | 1.65 | 1.71 | 1.77 | 1.83 | 1.90 | 1.96 | 2.03 | 2.5% |
| Electricity Demand | | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | | |
| Residential | 1499.27 | 1518.06 | 1538.03 | 1560.18 | 1575.05 | 1594.22 | 1614.74 | 1638.15 | 1653.33 | 1673.05 | 1694.70 | 1720.89 | 1740.15 | 1.6% |
| Commercial/Other | 1571.02 | 1605.25 | 1638.35 | 1671.36 | 1705.78 | 1741.20 | 1778.44 | 1814.49 | 1852.00 | 1888.53 | 1926.11 | 1962.88 | 2001.45 | 2.2% |
| Industrial | 1232.17 | 1253.28 | 1269.85 | 1283.68 | 1301.06 | 1318.63 | 1339.83 | 1356.88 | 1374.56 | 1396.82 | 1418.85 | 1443.23 | 1464.55 | 1.7% |
| Transportation | 29.62 | 30.43 | 31.25 | 32.06 | 33.01 | 33.99 | 34.96 | 36.09 | 37.22 | 38.33 | 39.46 | 40.60 | 41.69 | 2.8% |
| Total Sales | 4332.08 | 4407.03 | 4477.48 | 4547.29 | 4614.90 | 4688.04 | 4767.97 | 4845.61 | 4917.11 | 4996.72 | 5079.11 | 5167.60 | 5247.85 | 1.8% |
| Net Energy for Load (billion kilowatthours) 7/ | | | | | | | | | | | | | | |
| Gross International Imports | 39.95 | 36.94 | 37.53 | 34.43 | 30.70 | 26.20 | 22.03 | 24.37 | 20.95 | 17.99 | 16.17 | 15.56 | 14.38 | -4.0% |
| Gross International Exports | 13.47 | 12.50 | 11.53 | 10.57 | 9.60 | 8.63 | 8.14 | 7.66 | 7.66 | 7.66 | 7.66 | 7.66 | 7.66 | -3.5% |
| Gross Interregional Electricity Imports | 251.89 | 237.94 | 231.96 | 213.49 | 208.49 | 190.67 | 185.96 | 173.75 | 176.04 | 166.32 | 175.43 | 159.70 | 170.59 | -2.5% |
| Gross Interregional Electricity Exports | 257.16 | 243.37 | 237.61 | 219.14 | 214.40 | 196.74 | 192.16 | 180.00 | 182.40 | 172.57 | 182.10 | 166.43 | 177.88 | -2.4% |
| Purchases from Combined Heat and Power 8/ | 52.89 | 54.62 | 56.34 | 58.10 | 59.96 | 62.09 | 64.52 | 67.08 | 69.56 | 72.54 | 75.41 | 78.83 | 81.82 | 4.7% |
| Electric Power Sector Generation for Customers | 4359.47 | 4440.26 | 4507.77 | 4582.99 | 4653.30 | 4731.31 | 4817.01 | 4891.59 | 4969.40 | 5052.57 | 5141.17 | 5230.70 | 5315.97 | 1.9% |
| Total Net Energy for Load | 4433.57 | 4513.88 | 4584.45 | 4659.30 | 4728.45 | 4804.90 | 4889.22 | 4969.13 | 5045.89 | 5129.18 | 5218.41 | 5310.70 | 5397.23 | 1.9% |
| Generation by Fuel Type | | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | | |
| Coal | 2289.89 | 2315.14 | 2368.04 | 2396.48 | 2436.74 | 2466.09 | 2504.75 | 2529.77 | 2549.29 | 2588.10 | 2632.92 | 2670.04 | 2736.46 | 1.6% |
| Petroleum | 45.23 | 47.90 | 47.19 | 48.76 | 47.74 | 46.07 | 44.96 | 45.82 | 49.54 | 44.89 | 47.19 | 53.17 | 54.88 | -3.2% |
| Natural Gas | 1028.40 | 1070.01 | 1089.41 | 1130.02 | 1158.28 | 1207.38 | 1251.54 | 1298.22 | 1349.35 | 1396.99 | 1432.92 | 1477.05 | 1488.66 | 4.4% |
| Nuclear | 806.82 | 811.01 | 804.95 | 806.31 | 806.64 | 806.89 | 807.14 | 807.38 | 807.49 | 807.49 | 807.49 | 807.49 | 807.49 | 0.2% |
| Pumped Storage/Other 3/ | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -0.94 | -7.5% |
| Renewable Sources 4/ | 403.62 | 406.04 | 408.69 | 410.67 | 412.36 | 413.83 | 417.14 | 420.31 | 422.39 | 424.14 | 426.76 | 429.51 | 432.48 | 2.1% |
| Total Generation | 4573.03 | 4649.16 | 4717.34 | 4791.30 | 4860.82 | 4939.31 | 5024.58 | 5100.56 | 5177.11 | 5260.66 | 5346.33 | 5436.31 | 5519.02 | 1.8% |
| Sales to Customers | 4531.73 | 4607.86 | 4676.04 | 4750.00 | 4819.52 | 4898.01 | 4983.28 | 5059.26 | 5135.81 | 5219.36 | 5305.03 | 5395.01 | 5477.72 | 1.8% |
| Generation for Own Use | 41.30 | 41.30 | 41.30 | 41.30 | 41.30 | 41.30 | 41.30 | 41.30 | 41.30 | 41.30 | 41.30 | 41.30 | 41.30 | 1.3% |
| Distributed Generation 5/ | 1.90 | 2.27 | 2.67 | 3.09 | 3.59 | 4.04 | 4.50 | 4.95 | 5.42 | 5.91 | 6.43 | 6.91 | 7.43 | N/A |
| Combined Heat and Power | | | | | | | | | | | | | | |
| Coal | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 23.15 | 0.0% |
| Petroleum | 6.08 | 6.08 | 6.09 | 6.09 | 6.09 | 6.10 | 6.12 | 6.14 | 6.16 | 6.18 | 6.21 | 6.24 | 6.26 | 0.5% |
| Natural Gas | 123.13 | 125.85 | 129.04 | 132.58 | 136.29 | 140.63 | 145.43 | 151.09 | 156.66 | 163.13 | 169.31 | 176.55 | 182.99 | 3.4% |
| Other Gaseous Fuels | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.13 | 7.25 | 7.37 | 7.40 | 7.52 | 7.64 | 7.83 | 7.89 | 1.4% |
| Renewable Sources 4/ | 43.13 | 44.30 | 45.30 | 46.20 | 47.18 | 48.25 | 49.36 | 50.36 | 51.33 | 52.47 | 53.59 | 54.80 | 55.95 | 2.5% |
| Other | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 11.17 | 0.0% |
| Total | 213.80 | 217.68 | 221.88 | 226.33 | 231.02 | 236.43 | 242.49 | 249.29 | 255.87 | 263.62 | 271.06 | 279.74 | 287.41 | 2.5% |
| Other End Use Generators | 5.11 | 5.14 | 5.19 | 5.25 | 5.31 | 5.38 | 5.44 | 5.57 | 5.69 | 5.82 | 5.95 | 6.09 | 6.22 | 1.6% |
| Sales to Utilities | 52.89 | 54.62 | 56.34 | 58.10 | 59.96 | 62.09 | 64.52 | 67.08 | 69.56 | 72.54 | 75.41 | 78.83 | 81.82 | 4.7% |
| Generation for Own Use | 166.02 | 168.20 | 170.74 | 173.48 | 176.37 | 179.72 | 183.40 | 187.78 | 192.00 | 196.90 | 201.60 | 207.00 | 211.80 | 1.8% |
| End-Use Prices | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Residential | 7.7 | 7.7 | 7.7 | 7.8 | 7.7 | 7.8 | 7.8 | 7.8 | 7.8 | 7.9 | 7.9 | 7.9 | 7.9 | -0.4% |
| Commercial | 6.8 | 6.9 | 6.9 | 7.0 | 7.0 | 7.1 | 7.1 | 7.2 | 7.1 | 7.2 | 7.2 | 7.3 | 7.3 | -0.4% |

**Table 73. Electric Power Projections for EMM Region**
**United States**

| Electricity Supply and Demand | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Industrial | 4.3 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.5 | 4.5 | 4.6 | 4.6 | 4.6 | 4.6 | -0.2% |
| Transportation | 6.4 | 6.4 | 6.4 | 6.4 | 6.3 | 6.3 | 6.3 | 6.3 | 6.2 | 6.2 | 6.1 | 6.1 | 6.1 | -0.8% |
| All Sectors Average | 6.4 | 6.4 | 6.5 | 6.5 | 6.5 | 6.6 | 6.6 | 6.6 | 6.6 | 6.7 | 6.7 | 6.8 | 6.7 | -0.3% |
| | | | | | | | | | | | | | | |
| Prices by Service Category | | | | | | | | | | | | | | |
| (2001 cents per kilowatthour) | | | | | | | | | | | | | | |
| Generation | 3.9 | 3.9 | 3.9 | 4.0 | 4.0 | 4.0 | 4.0 | 4.1 | 4.1 | 4.2 | 4.2 | 4.2 | 4.2 | -0.5% |
| Transmission | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.7% |
| Distribution | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | -0.2% |
| | | | | | | | | | | | | | | |
| Fuel Consumption (quadrillion Btu) 9/ | | | | | | | | | | | | | | |
| Coal | 23.34 | 23.56 | 24.01 | 24.26 | 24.61 | 24.85 | 25.18 | 25.41 | 25.57 | 25.90 | 26.29 | 26.60 | 27.16 | 1.2% |
| Natural Gas | 7.83 | 8.05 | 8.16 | 8.44 | 8.60 | 8.94 | 9.22 | 9.54 | 9.87 | 10.20 | 10.39 | 10.69 | 10.72 | 2.8% |
| Oil | 1.83 | 1.81 | 1.82 | 1.83 | 1.82 | 1.81 | 1.81 | 1.83 | 1.85 | 1.83 | 1.82 | 1.88 | 1.87 | -1.1% |
| Total | 33.00 | 33.42 | 33.99 | 34.53 | 35.03 | 35.60 | 36.21 | 36.78 | 37.29 | 37.92 | 38.50 | 39.17 | 39.74 | 1.5% |
| | | | | | | | | | | | | | | |
| Emissions (million tons) 10/ | | | | | | | | | | | | | | |
| Total Carbon | 791.71 | 801.84 | 816.18 | 828.13 | 840.45 | 852.35 | 866.23 | 878.16 | 888.45 | 902.43 | 916.84 | 931.53 | 947.79 | 1.4% |
| Carbon Dioxide | 2902.95 | 2940.09 | 2992.65 | 3036.46 | 3081.64 | 3125.27 | 3176.17 | 3219.93 | 3257.65 | 3308.90 | 3361.75 | 3415.61 | 3475.21 | 1.4% |
| Sulfur Dioxide | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | 8.95 | -0.7% |
| Nitrogen Oxide | 3.97 | 3.97 | 3.99 | 4.00 | 4.02 | 4.02 | 4.04 | 4.06 | 4.06 | 4.08 | 4.10 | 4.12 | 4.12 | -0.6% |

**Table 73. Electric Power Projections for EMM Region**
**United States**

1/ Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load (exclusive of auxiliary power), as demonstrated by tests during summer peak demand. Includes electric utilities, small power producers, and exempt wholesale generators. Nameplate capacity is reported for nonutilities on Form EIA-860, "Annual Electric Generator Report." Nameplate capacity is designated by the manufacturer. The nameplate capacity has been converted to net summer capacity based on historic relationships.
2/ Includes oil-, gas-, and dual-fired capacity.
3/ Other includes methane, propane gas, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
4/ Includes conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
5/ Primarily peak-load capacity fueled by natural gas.
6/ Cumulative additions after December 31, 2001.
7/ Generation to meet system load by source.
8/ Combined heat and power produces electricity and other useful thermal energy (such as steam or heat) through the sequential use of energy.
9/ Includes fuel consumption by electric utilities, small power producers, independent power producers, and exempt wholesale generators.
10/ Estimated emissions from utilities and nonutilities (excluding combined heat and power).
O&M = Operation and maintenance.
EMM = Electricity market module.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 (except for prices and nonutility data): Energy Information Administration (EIA), Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Other 2001 and projections: NewGen Data and Analysis, RDI Consulting/FT Energy (Boulder, CO, July 2002) and EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 74. Electric Generation by Electricity Market Module Region and Source**
**(Billion Kwh)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| East Central Area Reliability Coordination Agreement | | | | | | | | | | | | | |
| Coal | 505.67 | 482.34 | 492.23 | 504.41 | 510.12 | 517.99 | 529.68 | 545.96 | 556.64 | 563.18 | 566.85 | 570.75 | 574.41 |
| Petroleum | 3.26 | 1.95 | 0.43 | 0.77 | 0.72 | 0.72 | 0.69 | 0.70 | 0.68 | 0.61 | 0.58 | 0.55 | 0.54 |
| Natural Gas | 14.60 | 15.53 | 40.07 | 43.85 | 52.37 | 53.71 | 56.74 | 55.88 | 63.54 | 76.18 | 78.53 | 87.50 | 91.16 |
| Nuclear | 47.76 | 55.35 | 56.87 | 57.11 | 57.30 | 57.88 | 58.07 | 56.91 | 47.07 | 47.22 | 47.35 | 47.41 | 47.47 |
| Pumped Storage/Other 1/ | -0.92 | -1.61 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 |
| Renewables 2/ | 5.37 | 5.77 | 6.05 | 6.62 | 6.87 | 8.53 | 8.70 | 7.71 | 7.73 | 8.11 | 8.83 | 8.93 | 8.88 |
| Total | 575.75 | 559.32 | 595.64 | 612.75 | 627.36 | 638.81 | 653.86 | 667.15 | 675.64 | 695.29 | 702.14 | 715.14 | 722.45 |
| Electric Reliability Council of Texas | | | | | | | | | | | | | |
| Coal | 106.58 | 102.26 | 103.47 | 103.74 | 106.93 | 109.61 | 111.64 | 114.00 | 112.65 | 112.64 | 116.95 | 116.95 | 116.95 |
| Petroleum | 2.49 | 2.92 | 0.02 | 0.04 | 0.04 | 0.04 | 0.03 | 0.04 | 0.05 | 0.17 | 0.04 | 0.05 | 0.03 |
| Natural Gas | 127.96 | 114.21 | 131.05 | 137.61 | 141.13 | 142.56 | 146.05 | 149.07 | 156.92 | 160.42 | 165.82 | 172.50 | 180.81 |
| Nuclear | 37.56 | 38.16 | 38.22 | 38.30 | 38.65 | 38.97 | 38.97 | 38.97 | 40.40 | 40.49 | 40.49 | 40.49 | 40.49 |
| Pumped Storage/Other 1/ | 1.34 | 1.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewables 2/ | 1.21 | 1.42 | 4.39 | 5.58 | 5.94 | 6.23 | 6.73 | 6.94 | 7.15 | 7.37 | 7.45 | 7.50 | 7.55 |
| Total | 277.14 | 260.32 | 277.15 | 285.27 | 292.70 | 297.43 | 303.43 | 309.06 | 317.24 | 321.19 | 330.89 | 337.65 | 346.02 |
| Mid-Atlantic Area Council | | | | | | | | | | | | | |
| Coal | 118.67 | 112.31 | 117.52 | 120.48 | 121.36 | 124.45 | 133.08 | 137.92 | 139.19 | 140.15 | 140.92 | 140.14 | 141.63 |
| Petroleum | 6.98 | 8.31 | 1.97 | 1.99 | 1.76 | 1.70 | 1.84 | 1.91 | 2.13 | 2.20 | 2.49 | 2.47 | 2.69 |
| Natural Gas | 19.46 | 19.65 | 25.38 | 27.13 | 30.25 | 27.07 | 26.58 | 25.30 | 30.15 | 30.42 | 34.09 | 34.60 | 38.48 |
| Nuclear | 104.08 | 104.68 | 106.11 | 106.62 | 108.52 | 108.62 | 109.18 | 109.25 | 109.74 | 109.74 | 109.74 | 109.74 | 109.74 |
| Pumped Storage/Other 1/ | -0.48 | -0.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewables 2/ | 7.69 | 6.64 | 8.75 | 9.31 | 9.98 | 10.82 | 11.18 | 11.58 | 12.09 | 12.29 | 12.46 | 13.02 | 13.15 |
| Total | 256.41 | 251.25 | 259.74 | 265.52 | 271.87 | 272.69 | 281.91 | 286.03 | 293.40 | 294.93 | 299.85 | 300.15 | 305.91 |
| Mid-America Interconnected Network | | | | | | | | | | | | | |
| Coal | 154.02 | 150.75 | 147.21 | 153.16 | 157.94 | 160.13 | 166.51 | 173.27 | 180.51 | 183.02 | 185.73 | 187.46 | 189.24 |
| Petroleum | 0.85 | 2.18 | 0.13 | 0.20 | 0.19 | 0.16 | 0.16 | 0.16 | 0.18 | 0.18 | 0.19 | 0.18 | 0.19 |
| Natural Gas | 5.71 | 5.33 | 12.06 | 12.03 | 10.03 | 9.65 | 8.16 | 8.22 | 9.22 | 9.93 | 9.93 | 9.71 | 10.70 |
| Nuclear | 110.94 | 112.25 | 111.67 | 112.46 | 113.02 | 113.06 | 113.80 | 113.83 | 113.86 | 113.88 | 113.88 | 113.88 | 113.88 |
| Pumped Storage/Other 1/ | -0.15 | -0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewables 2/ | 3.88 | 3.91 | 4.50 | 4.84 | 4.95 | 5.63 | 5.71 | 5.77 | 5.91 | 6.11 | 6.17 | 6.29 | 6.31 |
| Total | 275.25 | 274.21 | 275.57 | 282.70 | 286.13 | 288.64 | 294.35 | 301.27 | 309.72 | 313.18 | 316.00 | 317.69 | 320.51 |
| Mid-Continent Area Power Pool | | | | | | | | | | | | | |
| Coal | 121.97 | 122.43 | 118.63 | 122.20 | 127.22 | 131.49 | 135.83 | 142.30 | 144.71 | 148.71 | 155.41 | 160.88 | 161.16 |
| Petroleum | 0.71 | 0.82 | 0.18 | 0.23 | 0.19 | 0.19 | 0.20 | 0.21 | 0.25 | 0.30 | 0.31 | 0.29 | 0.31 |
| Natural Gas | 1.89 | 2.33 | 3.38 | 2.54 | 1.77 | 1.55 | 1.68 | 1.54 | 2.56 | 2.67 | 2.59 | 2.91 | 3.58 |
| Nuclear | 26.04 | 24.37 | 29.41 | 29.41 | 29.54 | 29.54 | 29.54 | 29.54 | 29.54 | 29.54 | 29.54 | 29.54 | 29.54 |
| Pumped Storage/Other 1/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewables 2/ | 14.35 | 10.89 | 16.26 | 18.56 | 19.31 | 19.71 | 19.79 | 19.80 | 19.80 | 19.79 | 19.78 | 19.78 | 19.77 |
| Total | 164.95 | 160.83 | 167.86 | 172.94 | 178.03 | 182.49 | 187.03 | 193.40 | 196.88 | 201.05 | 207.69 | 213.47 | 214.45 |
| Northeast Power Coordinating Council/ New York | | | | | | | | | | | | | |
| Coal | 24.16 | 22.71 | 23.84 | 24.05 | 24.39 | 24.82 | 25.86 | 26.08 | 26.00 | 25.96 | 25.91 | 25.60 | 25.62 |
| Petroleum | 14.71 | 16.35 | 11.17 | 7.54 | 7.37 | 7.31 | 7.41 | 7.31 | 7.37 | 7.72 | 8.41 | 8.84 | 9.23 |
| Natural Gas | 38.60 | 37.60 | 28.78 | 31.76 | 32.61 | 39.57 | 39.65 | 45.24 | 47.70 | 52.88 | 52.14 | 57.99 | 58.65 |
| Nuclear | 31.51 | 40.39 | 38.37 | 38.44 | 38.51 | 38.58 | 38.66 | 39.29 | 39.42 | 39.52 | 39.58 | 39.64 | 39.70 |

**Table 74. Electric Generation by Electricity Market Module Region and Source**
**(Billion Kwh)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pumped Storage/Other 1/ | -0.64 | -0.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewables 2/ | 27.01 | 25.19 | 17.15 | 20.55 | 21.39 | 22.13 | 22.86 | 23.63 | 23.62 | 23.57 | 23.61 | 23.61 | 23.66 |
| Total | 135.35 | 141.69 | 119.31 | 122.34 | 124.28 | 132.42 | 134.43 | 141.54 | 144.11 | 149.65 | 149.64 | 155.67 | 156.86 |
| Northeast Power Coordinating Council/ New England | | | | | | | | | | | | | |
| Coal | 18.61 | 18.39 | 19.35 | 19.43 | 19.98 | 20.62 | 21.40 | 22.01 | 21.77 | 21.77 | 21.77 | 21.77 | 21.77 |
| Petroleum | 17.66 | 15.65 | 7.22 | 5.43 | 8.68 | 8.47 | 8.93 | 9.69 | 11.86 | 8.77 | 9.49 | 8.75 | 9.95 |
| Natural Gas | 22.79 | 31.35 | 47.59 | 48.88 | 47.43 | 45.52 | 45.81 | 46.28 | 47.51 | 52.58 | 52.54 | 55.05 | 55.76 |
| Nuclear | 34.35 | 33.44 | 34.75 | 34.83 | 34.91 | 34.98 | 35.06 | 35.31 | 35.39 | 35.46 | 35.54 | 35.62 | 35.62 |
| Pumped Storage/Other 1/ | -0.70 | -0.71 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 |
| Renewables 2/ | 13.89 | 11.71 | 11.61 | 12.40 | 12.54 | 12.54 | 12.67 | 12.83 | 12.99 | 13.50 | 13.78 | 14.19 | 14.55 |
| Total | 106.61 | 109.83 | 120.52 | 120.96 | 123.53 | 122.11 | 123.87 | 126.11 | 129.50 | 132.09 | 133.13 | 135.39 | 137.67 |
| Southeastern Electric Reliability Council/ Florida | | | | | | | | | | | | | |
| Coal | 64.25 | 61.47 | 72.69 | 74.02 | 71.52 | 73.97 | 76.13 | 78.18 | 77.55 | 77.55 | 79.57 | 81.65 | 81.65 |
| Petroleum | 35.37 | 40.50 | 5.30 | 4.65 | 4.34 | 5.20 | 5.48 | 5.53 | 6.73 | 6.93 | 7.33 | 6.64 | 7.95 |
| Natural Gas | 41.41 | 42.17 | 43.22 | 43.83 | 50.84 | 51.56 | 53.41 | 57.00 | 63.84 | 69.46 | 74.09 | 79.64 | 85.43 |
| Nuclear | 32.29 | 31.58 | 31.82 | 31.86 | 32.01 | 32.27 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 |
| Pumped Storage/Other 1/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewables 2/ | 3.84 | 3.97 | 3.75 | 4.09 | 4.07 | 4.12 | 4.27 | 4.27 | 4.27 | 4.27 | 4.28 | 4.27 | 4.27 |
| Total | 177.16 | 179.69 | 156.78 | 158.44 | 162.78 | 167.12 | 171.62 | 177.30 | 184.70 | 190.53 | 197.59 | 204.53 | 211.63 |
| Southeastern Electric Reliability Council/ excluding Florida | | | | | | | | | | | | | |
| Coal | 467.21 | 451.38 | 437.33 | 443.65 | 455.22 | 469.54 | 485.51 | 497.96 | 501.83 | 506.73 | 516.18 | 526.94 | 531.11 |
| Petroleum | 10.27 | 16.10 | 3.53 | 2.70 | 2.82 | 2.67 | 2.49 | 2.53 | 3.10 | 2.98 | 3.10 | 3.02 | 3.16 |
| Natural Gas | 63.27 | 72.43 | 81.14 | 91.42 | 93.97 | 86.28 | 87.75 | 84.70 | 99.78 | 105.85 | 117.49 | 126.38 | 137.82 |
| Nuclear | 246.14 | 248.06 | 247.39 | 248.62 | 251.28 | 254.79 | 255.61 | 264.47 | 264.82 | 265.24 | 267.03 | 267.39 | 268.97 |
| Pumped Storage/Other 1/ | -1.12 | -3.95 | -0.14 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 |
| Renewables 2/ | 20.69 | 27.22 | 32.35 | 37.22 | 38.30 | 38.61 | 38.70 | 38.57 | 38.65 | 39.08 | 39.14 | 39.16 | 39.61 |
| Total | 806.46 | 811.24 | 801.60 | 823.43 | 841.42 | 851.72 | 869.88 | 888.07 | 908.01 | 919.71 | 942.77 | 962.72 | 980.51 |
| Southwest Power Pool | | | | | | | | | | | | | |
| Coal | 127.01 | 125.80 | 137.48 | 139.26 | 145.21 | 150.15 | 154.09 | 154.67 | 150.60 | 150.72 | 153.54 | 153.59 | 156.64 |
| Petroleum | 0.79 | 1.06 | 0.32 | 0.23 | 0.32 | 0.31 | 0.31 | 0.33 | 0.41 | 0.43 | 0.43 | 0.44 | 0.40 |
| Natural Gas | 40.63 | 38.39 | 32.16 | 39.28 | 39.76 | 37.61 | 37.28 | 35.94 | 42.85 | 43.61 | 44.88 | 46.12 | 51.84 |
| Nuclear | 9.06 | 10.35 | 9.74 | 9.74 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 |
| Pumped Storage/Other 1/ | -0.13 | -0.13 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 |
| Renewables 2/ | 4.62 | 5.06 | 5.22 | 5.67 | 5.76 | 5.82 | 5.87 | 5.88 | 5.88 | 5.88 | 5.90 | 5.91 | 5.92 |
| Total | 181.97 | 180.53 | 184.88 | 194.13 | 200.84 | 203.69 | 207.34 | 206.62 | 209.53 | 210.44 | 214.54 | 215.86 | 224.59 |
| Western Systems Coordinating Council/ Northwest Power Pool Area | | | | | | | | | | | | | |
| Coal | 77.19 | 73.83 | 78.10 | 77.49 | 79.61 | 81.53 | 83.35 | 86.87 | 85.49 | 85.51 | 85.53 | 85.48 | 85.53 |
| Petroleum | 1.12 | 1.89 | 0.02 | 0.03 | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Natural Gas | 20.76 | 21.63 | 23.90 | 28.00 | 31.67 | 37.18 | 42.36 | 49.84 | 56.58 | 63.47 | 70.19 | 75.58 | 78.79 |
| Nuclear | 8.60 | 8.25 | 8.90 | 8.90 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 |
| Pumped Storage/Other 1/ | 0.26 | 0.26 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 |
| Renewables 2/ | 140.69 | 99.34 | 136.87 | 156.92 | 160.22 | 161.18 | 162.35 | 163.50 | 164.25 | 164.75 | 165.30 | 166.15 | 166.55 |
| Total | 248.63 | 205.21 | 247.56 | 271.11 | 280.31 | 288.79 | 297.03 | 309.30 | 315.41 | 322.83 | 330.15 | 336.37 | 340.07 |
| Western System Coordinating Council/ Rocky Mountain Power Area & Arizona | | | | | | | | | | | | | |

**Table 74. Electric Generation by Electricity Market Module Region and Source**
**(Billion Kwh)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 128.28 | 127.67 | 111.53 | 110.75 | 114.01 | 117.05 | 118.96 | 121.45 | 119.74 | 124.78 | 124.78 | 129.49 | 129.49 |
| Petroleum | 0.39 | 0.58 | 0.50 | 0.69 | 0.85 | 0.86 | 0.86 | 0.85 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| Natural Gas | 29.85 | 35.32 | 41.34 | 54.62 | 55.19 | 53.29 | 50.12 | 39.94 | 45.99 | 43.49 | 44.83 | 42.50 | 45.63 |
| Nuclear | 22.05 | 20.85 | 21.63 | 21.99 | 21.99 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 |
| Pumped Storage/Other 1/ | -0.10 | 0.05 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 |
| Renewables 2/ | 18.40 | 16.92 | 17.98 | 20.09 | 20.53 | 20.63 | 20.70 | 20.77 | 20.79 | 21.32 | 21.32 | 21.87 | 21.88 |
| Total | 198.86 | 201.39 | 192.95 | 208.11 | 212.53 | 214.18 | 212.99 | 205.37 | 209.74 | 212.82 | 214.17 | 217.11 | 220.26 |
| | | | | | | | | | | | | | |
| Western System Coordinating Council/ | | | | | | | | | | | | | |
| California-Southern Nevada Power | | | | | | | | | | | | | |
| Coal | 27.55 | 27.78 | 36.35 | 36.00 | 37.00 | 37.87 | 43.18 | 49.54 | 48.95 | 48.95 | 48.95 | 48.95 | 48.95 |
| Petroleum | 2.21 | 2.69 | 0.75 | 0.74 | 0.75 | 0.20 | 0.06 | 0.06 | 0.06 | 0.33 | 2.03 | 4.04 | 2.31 |
| Natural Gas | 87.87 | 96.48 | 99.21 | 84.64 | 94.08 | 97.78 | 100.48 | 104.74 | 113.72 | 118.68 | 126.18 | 133.03 | 147.84 |
| Nuclear | 43.50 | 41.09 | 42.34 | 42.55 | 42.61 | 43.11 | 43.42 | 43.49 | 43.55 | 43.62 | 43.69 | 43.75 | 43.82 |
| Pumped Storage/Other 1/ | -0.64 | -0.26 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 |
| Renewables 2/ | 57.12 | 42.85 | 54.50 | 60.62 | 61.35 | 63.61 | 64.50 | 65.39 | 65.40 | 65.42 | 65.43 | 65.42 | 65.42 |
| Total | 174.97 | 196.65 | 228.00 | 238.24 | 248.63 | 253.85 | 258.09 | 255.75 | 263.24 | 276.44 | 278.43 | 285.98 | 288.67 |

**Table 74. Electric Generation by Electricity Market Module Region and Source**
**(Billion Kwh)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| East Central Area Reliability Coordination Agreement | | | | | | | | | | | | | | |
| Coal | 577.07 | 579.08 | 580.36 | 582.09 | 582.37 | 582.81 | 584.10 | 586.23 | 586.84 | 587.81 | 590.64 | 591.48 | 595.27 | 0.9% |
| Petroleum | 0.54 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.67 | 0.67 | 0.69 | 0.69 | 0.69 | 0.74 | -4.0% |
| Natural Gas | 97.55 | 99.39 | 109.02 | 112.95 | 124.95 | 129.47 | 142.69 | 147.13 | 163.91 | 168.40 | 182.67 | 178.46 | 189.87 | 11.0% |
| Nuclear | 47.54 | 47.60 | 47.66 | 47.72 | 47.79 | 47.85 | 47.91 | 47.98 | 48.00 | 48.00 | 48.00 | 48.00 | 48.00 | -0.6% |
| Pumped Storage/Other 1/ | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -18.5% |
| Renewables 2/ | 8.93 | 8.98 | 9.31 | 9.30 | 9.32 | 9.33 | 9.52 | 9.43 | 9.58 | 9.57 | 9.83 | 9.83 | 9.89 | 2.3% |
| Total | 731.60 | 735.65 | 746.94 | 752.66 | 765.02 | 770.05 | 784.82 | 791.43 | 808.99 | 814.46 | 831.82 | 828.45 | 843.75 | 1.7% |
| Electric Reliability Council of Texas | | | | | | | | | | | | | | |
| Coal | 116.95 | 119.11 | 119.11 | 120.64 | 120.64 | 120.64 | 120.64 | 120.64 | 120.64 | 120.64 | 120.64 | 120.64 | 122.95 | 0.8% |
| Petroleum | 0.17 | 0.11 | 0.06 | 0.10 | 0.12 | 0.03 | 0.03 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.18 | -10.9% |
| Natural Gas | 185.56 | 189.44 | 194.26 | 198.46 | 202.39 | 207.37 | 212.43 | 217.10 | 221.05 | 225.44 | 230.77 | 237.21 | 239.39 | 3.1% |
| Nuclear | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 40.49 | 0.2% |
| Pumped Storage/Other 1/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewables 2/ | 7.59 | 7.64 | 7.68 | 7.73 | 7.78 | 7.83 | 7.87 | 7.92 | 7.94 | 7.94 | 7.95 | 7.96 | 7.96 | 7.4% |
| Total | 350.96 | 357.02 | 361.85 | 367.71 | 371.73 | 376.70 | 381.84 | 386.72 | 390.72 | 395.15 | 400.51 | 406.98 | 411.49 | 1.9% |
| Mid-Atlantic Area Council | | | | | | | | | | | | | | |
| Coal | 142.29 | 142.91 | 142.98 | 143.45 | 143.86 | 147.47 | 147.48 | 147.86 | 147.87 | 148.15 | 148.09 | 152.48 | 152.28 | 1.3% |
| Petroleum | 2.93 | 2.72 | 2.78 | 2.94 | 2.89 | 2.83 | 2.74 | 2.93 | 2.93 | 2.86 | 2.84 | 2.86 | 2.90 | -4.3% |
| Natural Gas | 39.03 | 42.78 | 44.55 | 49.74 | 50.65 | 55.21 | 55.08 | 60.05 | 58.82 | 64.51 | 64.80 | 67.66 | 70.69 | 5.5% |
| Nuclear | 109.74 | 109.74 | 109.74 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 110.70 | 0.2% |
| Pumped Storage/Other 1/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewables 2/ | 13.43 | 13.46 | 13.57 | 13.50 | 13.50 | 13.38 | 13.39 | 13.38 | 13.40 | 13.46 | 13.53 | 13.87 | 13.94 | 3.1% |
| Total | 307.65 | 311.87 | 313.95 | 320.72 | 322.06 | 330.11 | 329.92 | 335.51 | 334.33 | 340.36 | 340.64 | 348.32 | 351.28 | 1.4% |
| Mid-America Interconnected Network | | | | | | | | | | | | | | |
| Coal | 190.29 | 190.95 | 190.66 | 191.04 | 191.28 | 188.53 | 189.37 | 190.25 | 187.60 | 187.43 | 187.74 | 188.08 | 188.05 | 0.9% |
| Petroleum | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 0.21 | 0.22 | 0.25 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | -8.4% |
| Natural Gas | 10.75 | 10.84 | 10.59 | 11.55 | 12.60 | 15.76 | 18.16 | 20.62 | 23.63 | 27.21 | 29.21 | 32.06 | 32.06 | 7.8% |
| Nuclear | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 113.88 | 0.1% |
| Pumped Storage/Other 1/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewables 2/ | 6.31 | 6.32 | 6.29 | 6.29 | 6.28 | 6.28 | 6.26 | 6.20 | 6.18 | 6.15 | 6.15 | 6.12 | 6.08 | 1.9% |
| Total | 321.68 | 322.47 | 321.92 | 323.28 | 324.61 | 325.08 | 328.36 | 331.73 | 332.13 | 335.58 | 337.95 | 341.18 | 341.17 | 0.9% |
| Mid-Continent Area Power Pool | | | | | | | | | | | | | | |
| Coal | 161.46 | 165.04 | 170.24 | 173.25 | 177.67 | 182.97 | 187.10 | 190.33 | 194.10 | 198.98 | 203.22 | 207.54 | 211.57 | 2.3% |
| Petroleum | 0.30 | 0.27 | 0.27 | 0.28 | 0.28 | 0.30 | 0.32 | 0.33 | 0.35 | 0.33 | 0.35 | 0.34 | 0.32 | -3.9% |
| Natural Gas | 4.83 | 4.69 | 4.18 | 4.48 | 4.40 | 4.49 | 4.38 | 4.76 | 4.93 | 5.04 | 4.90 | 4.84 | 4.23 | 2.5% |
| Nuclear | 30.76 | 31.61 | 31.66 | 31.71 | 31.76 | 31.82 | 31.87 | 31.92 | 31.94 | 31.94 | 31.94 | 31.94 | 31.94 | 1.1% |
| Pumped Storage/Other 1/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewables 2/ | 19.76 | 19.76 | 19.75 | 19.75 | 19.74 | 19.73 | 19.72 | 19.71 | 19.71 | 19.71 | 19.71 | 19.71 | 19.70 | 2.5% |
| Total | 217.22 | 221.49 | 226.24 | 229.62 | 234.01 | 239.48 | 243.58 | 247.25 | 251.26 | 256.23 | 260.37 | 264.62 | 268.02 | 2.2% |
| Northeast Power Coordinating Council/ New York | | | | | | | | | | | | | | |
| Coal | 25.91 | 25.95 | 26.22 | 26.27 | 26.33 | 26.52 | 26.49 | 26.53 | 26.51 | 26.56 | 26.52 | 26.51 | 26.55 | 0.7% |
| Petroleum | 9.66 | 9.76 | 9.90 | 9.91 | 9.79 | 9.70 | 9.75 | 10.00 | 10.01 | 10.02 | 10.06 | 10.08 | 10.09 | -2.0% |
| Natural Gas | 61.92 | 62.43 | 66.87 | 67.18 | 68.45 | 68.88 | 76.42 | 78.78 | 86.04 | 87.97 | 94.27 | 95.46 | 95.16 | 3.9% |
| Nuclear | 39.76 | 39.82 | 31.58 | 31.64 | 31.70 | 31.76 | 31.82 | 31.88 | 31.90 | 31.90 | 31.90 | 31.90 | 31.90 | -1.0% |

**Table 74. Electric Generation by Electricity Market Module Region and Source**
**(Billion Kwh)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pumped Storage/Other 1/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewables 2/ | 23.58 | 23.63 | 23.51 | 23.50 | 23.42 | 23.42 | 23.41 | 23.40 | 23.40 | 23.41 | 23.41 | 23.40 | 23.41 | -0.3% |
| Total | 160.83 | 161.58 | 158.08 | 158.49 | 159.69 | 160.28 | 167.89 | 170.59 | 177.87 | 179.85 | 186.16 | 187.36 | 187.11 | 1.2% |
| Northeast Power Coordinating Council/ New England | | | | | | | | | | | | | | |
| Coal | 21.77 | 21.77 | 21.77 | 21.81 | 21.77 | 21.77 | 21.81 | 21.81 | 21.81 | 21.81 | 21.81 | 21.81 | 21.81 | 0.7% |
| Petroleum | 10.58 | 11.25 | 11.53 | 12.29 | 12.24 | 12.17 | 12.43 | 11.91 | 11.74 | 11.44 | 10.64 | 11.40 | 11.17 | -1.4% |
| Natural Gas | 56.08 | 57.13 | 57.00 | 56.97 | 58.20 | 58.65 | 59.29 | 57.72 | 59.79 | 63.25 | 64.77 | 66.27 | 69.13 | 3.3% |
| Nuclear | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 35.62 | 0.3% |
| Pumped Storage/Other 1/ | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -15.7% |
| Renewables 2/ | 14.92 | 15.30 | 15.69 | 16.10 | 16.68 | 16.98 | 17.34 | 17.77 | 17.88 | 17.96 | 17.96 | 17.96 | 17.96 | 1.8% |
| Total | 139.00 | 141.09 | 141.64 | 142.83 | 144.54 | 145.22 | 146.54 | 144.87 | 146.89 | 150.12 | 150.85 | 153.12 | 155.74 | 1.5% |
| Southeastern Electric Reliability Council/ Florida | | | | | | | | | | | | | | |
| Coal | 81.65 | 81.65 | 84.18 | 86.13 | 88.22 | 91.20 | 93.13 | 93.16 | 93.19 | 94.96 | 97.66 | 99.83 | 102.94 | 2.2% |
| Petroleum | 8.19 | 7.76 | 7.23 | 7.19 | 6.76 | 5.67 | 4.95 | 5.29 | 5.03 | 5.09 | 4.86 | 5.04 | 4.26 | -9.0% |
| Natural Gas | 89.86 | 96.13 | 99.83 | 104.53 | 107.79 | 113.83 | 117.75 | 123.01 | 129.71 | 133.47 | 137.76 | 144.61 | 148.06 | 5.4% |
| Nuclear | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 32.32 | 0.1% |
| Pumped Storage/Other 1/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewables 2/ | 4.27 | 4.27 | 4.27 | 4.27 | 4.27 | 4.26 | 4.26 | 4.27 | 4.27 | 4.27 | 4.46 | 4.69 | 5.03 | 1.0% |
| Total | 216.31 | 222.15 | 227.87 | 234.49 | 239.42 | 247.38 | 252.54 | 258.20 | 264.68 | 270.30 | 277.29 | 286.75 | 292.90 | 2.1% |
| Southeastern Electric Reliability Council/ excluding Florida | | | | | | | | | | | | | | |
| Coal | 542.46 | 549.47 | 576.18 | 592.07 | 612.14 | 629.38 | 647.84 | 663.95 | 673.70 | 699.75 | 720.36 | 741.34 | 766.73 | 2.2% |
| Petroleum | 3.14 | 3.08 | 2.86 | 3.00 | 2.86 | 2.71 | 2.70 | 2.77 | 2.71 | 2.77 | 2.64 | 2.77 | 2.76 | -7.1% |
| Natural Gas | 145.90 | 158.65 | 155.32 | 160.56 | 158.89 | 165.20 | 166.78 | 173.54 | 176.41 | 175.15 | 172.78 | 184.31 | 179.28 | 3.8% |
| Nuclear | 271.80 | 274.98 | 277.05 | 277.28 | 277.44 | 277.51 | 277.58 | 277.65 | 277.68 | 277.68 | 277.68 | 277.68 | 277.68 | 0.5% |
| Pumped Storage/Other 1/ | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -0.17 | -12.2% |
| Renewables 2/ | 39.79 | 40.33 | 40.25 | 40.23 | 40.22 | 40.20 | 40.19 | 40.18 | 40.20 | 40.58 | 40.95 | 41.28 | 41.71 | 1.8% |
| Total | 1002.93 | 1026.34 | 1051.48 | 1072.97 | 1091.38 | 1114.84 | 1134.92 | 1157.92 | 1170.53 | 1195.76 | 1214.24 | 1247.21 | 1267.99 | 1.9% |
| Southwest Power Pool | | | | | | | | | | | | | | |
| Coal | 156.85 | 161.94 | 161.86 | 163.40 | 163.40 | 163.23 | 163.32 | 163.45 | 163.11 | 163.27 | 163.42 | 164.13 | 178.10 | 1.5% |
| Petroleum | 0.43 | 0.36 | 0.29 | 0.38 | 0.37 | 0.39 | 0.39 | 0.39 | 0.39 | 0.40 | 0.41 | 0.39 | 0.39 | -4.1% |
| Natural Gas | 52.38 | 55.80 | 56.93 | 59.02 | 60.46 | 63.61 | 65.43 | 67.82 | 69.56 | 72.25 | 73.85 | 78.24 | 72.07 | 2.7% |
| Nuclear | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | 9.84 | -0.2% |
| Pumped Storage/Other 1/ | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -0.05 | -4.1% |
| Renewables 2/ | 5.92 | 5.93 | 5.93 | 5.93 | 5.94 | 5.94 | 5.94 | 5.95 | 5.95 | 5.96 | 5.97 | 5.98 | 5.98 | 0.7% |
| Total | 225.38 | 233.83 | 234.80 | 238.55 | 239.98 | 242.98 | 244.90 | 247.43 | 248.82 | 251.69 | 253.46 | 258.54 | 266.34 | 1.6% |
| Western Systems Coordinating Council/ Northwest Power Pool Area | | | | | | | | | | | | | | |
| Coal | 85.53 | 85.53 | 87.52 | 87.52 | 89.28 | 89.64 | 91.12 | 91.12 | 93.26 | 95.67 | 98.10 | 99.68 | 102.49 | 1.4% |
| Petroleum | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | -14.5% |
| Natural Gas | 80.55 | 87.47 | 89.30 | 90.85 | 93.04 | 95.11 | 99.75 | 102.81 | 104.21 | 105.87 | 109.92 | 115.57 | 117.64 | 7.3% |
| Nuclear | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 8.98 | 0.4% |
| Pumped Storage/Other 1/ | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | -0.22 | N/A |
| Renewables 2/ | 167.77 | 168.14 | 168.43 | 169.17 | 169.33 | 169.99 | 170.93 | 172.69 | 173.07 | 173.48 | 173.74 | 174.81 | 175.67 | 2.4% |
| Total | 343.07 | 350.45 | 354.66 | 357.05 | 361.27 | 364.45 | 371.60 | 376.52 | 380.54 | 385.15 | 392.00 | 400.40 | 406.27 | 2.9% |
| Western System Coordinating Council/ Rocky Mountain Power Area & Arizona | | | | | | | | | | | | | | |

**Table 74. Electric Generation by Electricity Market Module Region and Source**
**(Billion Kwh)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Coal | 138.48 | 139.89 | 151.91 | 151.91 | 160.65 | 160.65 | 169.03 | 169.03 | 173.04 | 173.04 | 182.59 | 182.59 | 191.98 | 1.7% |
| Petroleum | 0.87 | 1.04 | 0.87 | 0.87 | 0.87 | 0.87 | 0.86 | 0.86 | 0.87 | 0.86 | 0.86 | 0.87 | 1.03 | 2.4% |
| Natural Gas | 39.47 | 38.46 | 30.16 | 32.28 | 28.30 | 30.07 | 27.32 | 30.26 | 35.38 | 38.84 | 37.16 | 39.09 | 36.44 | 0.1% |
| Nuclear | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 22.21 | 0.3% |
| Pumped Storage/Other 1/ | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | N/A |
| Renewables 2/ | 22.70 | 22.70 | 23.65 | 23.66 | 24.30 | 24.31 | 24.99 | 25.00 | 25.63 | 25.64 | 26.32 | 26.35 | 26.78 | 1.9% |
| Total | 223.95 | 224.53 | 229.06 | 231.21 | 236.69 | 238.48 | 244.88 | 247.85 | 257.70 | 261.19 | 269.83 | 271.80 | 279.21 | 1.4% |
| | | | | | | | | | | | | | | |
| Western System Coordinating Council/ California-Southern Nevada Power | | | | | | | | | | | | | | |
| Coal | 48.95 | 51.60 | 54.81 | 56.66 | 58.87 | 61.01 | 63.06 | 65.13 | 67.34 | 69.76 | 71.83 | 73.66 | 75.46 | 4.3% |
| Petroleum | 0.49 | 2.85 | 2.57 | 2.78 | 2.42 | 2.08 | 1.29 | 1.35 | 5.35 | 0.75 | 3.97 | 8.65 | 10.95 | 6.0% |
| Natural Gas | 161.44 | 163.69 | 168.22 | 178.20 | 184.84 | 196.35 | 202.58 | 211.10 | 212.33 | 225.93 | 226.32 | 229.43 | 230.75 | 3.7% |
| Nuclear | 43.89 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 43.92 | 0.3% |
| Pumped Storage/Other 1/ | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | -0.44 | 2.3% |
| Renewables 2/ | 65.42 | 66.31 | 67.00 | 67.83 | 68.11 | 68.64 | 69.67 | 70.71 | 71.39 | 72.13 | 72.86 | 73.54 | 74.28 | 2.3% |
| Total | 294.52 | 296.53 | 306.87 | 310.68 | 321.51 | 326.18 | 340.45 | 345.47 | 362.35 | 366.88 | 383.42 | 379.43 | 394.18 | 2.9% |

**Table 74. Electric Generation by Electricity Market Module Region and Source**
**(Billion Kwh)**

1/ Other includes methane, propane and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
2/ Renewables include conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Values represent generation for utilities and nonutilities (excluding combined heat and power). Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load.
Sources: 2001 utility generation: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." Other 2001 and projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 75. Electric Generation Capacity by Electricity Market Module Region and Source**
**(Gigawatts)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| East Central Area Reliability Coordination Agreement | | | | | | | | | | | | | |
| Coal Steam | 84.37 | 84.34 | 84.34 | 84.33 | 84.17 | 83.59 | 81.64 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 |
| Other Fossil Steam 1/ | 3.78 | 3.80 | 3.80 | 3.80 | 3.80 | 3.78 | 2.21 | 2.21 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 |
| Combined Cycle | 2.39 | 4.17 | 7.27 | 9.66 | 10.11 | 12.01 | 12.01 | 12.51 | 12.51 | 16.50 | 16.50 | 18.59 | 18.59 |
| Combustion Turbine/ Diesel | 10.34 | 14.06 | 19.27 | 20.03 | 20.03 | 21.36 | 21.25 | 21.22 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 |
| Nuclear Power | 7.66 | 7.66 | 7.67 | 7.67 | 7.67 | 7.68 | 7.68 | 7.05 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 |
| Pumped Storage/Other 2/ | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 1.51 | 1.66 | 1.74 | 1.83 | 1.85 | 1.87 | 1.87 | 1.87 | 1.87 | 1.95 | 1.95 | 1.98 | 1.98 |
| Total | 113.42 | 119.05 | 127.44 | 130.67 | 130.98 | 133.66 | 130.03 | 129.55 | 126.36 | 130.42 | 130.42 | 132.53 | 132.53 |
| Electric Reliability Council of Texas | | | | | | | | | | | | | |
| Coal Steam | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.24 | 15.82 | 15.82 | 15.82 |
| Other Fossil Steam 1/ | 30.13 | 30.08 | 30.01 | 29.72 | 29.48 | 26.09 | 22.88 | 20.61 | 19.48 | 18.31 | 18.27 | 17.82 | 17.79 |
| Combined Cycle | 7.68 | 11.15 | 15.68 | 16.60 | 17.28 | 17.28 | 17.28 | 17.28 | 19.18 | 19.35 | 23.89 | 23.89 | 27.63 |
| Combustion Turbine/ Diesel | 4.86 | 6.96 | 7.52 | 7.10 | 7.10 | 7.08 | 7.08 | 6.73 | 8.51 | 8.50 | 10.54 | 10.54 | 12.35 |
| Nuclear Power | 4.80 | 4.82 | 4.82 | 4.82 | 4.85 | 4.89 | 4.89 | 4.89 | 5.07 | 5.08 | 5.08 | 5.08 | 5.08 |
| Pumped Storage/Other 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 0.77 | 1.66 | 1.89 | 2.31 | 2.31 | 2.43 | 2.50 | 2.56 | 2.62 | 2.68 | 2.69 | 2.70 | 2.71 |
| Total | 63.48 | 69.91 | 75.16 | 75.78 | 76.26 | 73.04 | 69.89 | 67.41 | 70.27 | 69.42 | 76.60 | 76.23 | 81.83 |
| Mid-Atlantic Area Council | | | | | | | | | | | | | |
| Coal Steam | 20.09 | 19.89 | 19.89 | 19.89 | 19.89 | 19.85 | 20.18 | 20.18 | 20.18 | 20.18 | 20.18 | 20.18 | 20.18 |
| Other Fossil Steam 1/ | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.41 | 8.38 |
| Combined Cycle | 4.55 | 5.78 | 7.74 | 9.76 | 10.48 | 10.48 | 10.48 | 10.48 | 10.84 | 11.09 | 11.85 | 12.10 | 12.61 |
| Combustion Turbine/ Diesel | 8.70 | 9.87 | 10.51 | 11.09 | 11.09 | 11.09 | 11.09 | 11.65 | 11.71 | 11.71 | 11.71 | 11.71 | 11.71 |
| Nuclear Power | 12.99 | 12.99 | 13.03 | 13.07 | 13.31 | 13.31 | 13.36 | 13.36 | 13.42 | 13.42 | 13.42 | 13.42 | 13.42 |
| Pumped Storage/Other 2/ | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.06 | 0.09 | 0.11 | 0.13 | 0.16 |
| Renewable Sources 3/ | 1.84 | 1.88 | 1.89 | 1.89 | 1.89 | 1.92 | 1.96 | 1.99 | 2.02 | 2.04 | 2.07 | 2.10 | 2.12 |
| Total | 57.90 | 60.14 | 62.78 | 65.42 | 66.39 | 66.44 | 66.91 | 67.58 | 68.16 | 68.52 | 69.40 | 69.77 | 70.36 |
| Mid-America Interconnected Network | | | | | | | | | | | | | |
| Coal Steam | 28.09 | 28.09 | 28.09 | 28.09 | 28.09 | 27.77 | 27.75 | 27.68 | 27.68 | 27.68 | 27.68 | 27.68 | 27.68 |
| Other Fossil Steam 1/ | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | 3.99 | 2.75 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 |
| Combined Cycle | 0.37 | 1.22 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 |
| Combustion Turbine/ Diesel | 8.01 | 11.46 | 14.41 | 14.39 | 14.39 | 14.69 | 13.95 | 13.15 | 13.15 | 13.83 | 13.93 | 14.22 | 14.22 |
| Nuclear Power | 13.23 | 13.23 | 13.59 | 13.67 | 13.74 | 13.74 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 |
| Pumped Storage/Other 2/ | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 0.92 | 1.03 | 1.05 | 1.12 | 1.12 | 1.18 | 1.18 | 1.18 | 1.19 | 1.21 | 1.22 | 1.24 | 1.24 |
| Total | 55.05 | 59.46 | 64.00 | 64.13 | 64.19 | 64.27 | 62.37 | 60.97 | 61.03 | 61.78 | 61.94 | 62.43 | 62.48 |
| Mid-Continent Area Power Pool | | | | | | | | | | | | | |
| Coal Steam | 20.37 | 20.38 | 20.30 | 20.30 | 20.30 | 20.30 | 20.27 | 20.55 | 20.55 | 21.00 | 21.85 | 22.57 | 22.57 |
| Other Fossil Steam 1/ | 0.58 | 0.57 | 0.56 | 0.56 | 0.56 | 0.56 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 |
| Combined Cycle | 0.39 | 1.28 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.57 | 1.72 |
| Combustion Turbine/ Diesel | 5.42 | 6.58 | 6.72 | 7.09 | 7.09 | 7.09 | 7.01 | 7.01 | 7.30 | 7.57 | 7.57 | 7.52 | 7.52 |

**Table 75. Electric Generation Capacity by Electricity Market Module Region and Source**
**(Gigawatts)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nuclear Power | 3.78 | 3.78 | 3.87 | 3.87 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 | 3.88 |
| Pumped Storage/Other 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 3.95 | 4.08 | 4.34 | 4.51 | 4.58 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 |
| Total | 34.50 | 36.68 | 37.22 | 37.76 | 37.85 | 37.91 | 37.51 | 37.80 | 38.12 | 38.87 | 39.76 | 40.61 | 40.80 |
| Northeast Power Coordinating Council/ New York | | | | | | | | | | | | | |
| Coal Steam | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 |
| Other Fossil Steam 1/ | 12.44 | 12.44 | 12.44 | 12.44 | 12.44 | 11.33 | 10.13 | 10.13 | 9.62 | 9.62 | 8.80 | 8.80 | 8.21 |
| Combined Cycle | 4.01 | 4.01 | 4.01 | 4.22 | 4.22 | 5.58 | 5.58 | 7.02 | 7.02 | 8.18 | 8.18 | 9.51 | 9.51 |
| Combustion Turbine/ Diesel | 3.70 | 4.05 | 4.59 | 4.59 | 4.59 | 4.31 | 4.31 | 4.31 | 4.26 | 4.26 | 4.26 | 4.26 | 4.26 |
| Nuclear Power | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.06 | 5.06 | 5.06 | 5.06 | 5.06 | 5.06 |
| Pumped Storage/Other 2/ | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 4.60 | 4.70 | 4.86 | 5.25 | 5.32 | 5.48 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 |
| Total | 34.82 | 35.27 | 35.97 | 36.57 | 36.65 | 36.76 | 35.71 | 37.17 | 36.60 | 37.75 | 36.93 | 38.27 | 37.68 |
| Northeast Power Coordinating Council/ New England | | | | | | | | | | | | | |
| Coal Steam | 2.95 | 2.95 | 2.95 | 2.95 | 2.95 | 2.95 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 |
| Other Fossil Steam 1/ | 7.83 | 7.82 | 7.82 | 7.82 | 7.82 | 7.82 | 6.75 | 5.80 | 4.66 | 4.66 | 4.18 | 4.18 | 4.18 |
| Combined Cycle | 5.47 | 6.95 | 9.00 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | 9.21 | 10.54 | 10.39 | 11.27 | 11.27 |
| Combustion Turbine/ Diesel | 2.02 | 1.98 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 |
| Nuclear Power | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.35 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 |
| Pumped Storage/Other 2/ | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 2.79 | 2.80 | 2.81 | 2.85 | 2.85 | 2.85 | 2.89 | 2.93 | 2.96 | 3.07 | 3.14 | 3.24 | 3.32 |
| Total | 27.12 | 28.55 | 31.63 | 31.88 | 31.88 | 31.89 | 30.84 | 29.95 | 28.84 | 30.31 | 29.74 | 30.75 | 30.84 |
| Southeastern Electric Reliability Council/ Florida | | | | | | | | | | | | | |
| Coal Steam | 10.95 | 10.97 | 11.49 | 11.49 | 10.37 | 10.37 | 10.37 | 10.37 | 10.37 | 10.37 | 10.64 | 10.92 | 10.92 |
| Other Fossil Steam 1/ | 13.30 | 12.45 | 11.51 | 10.78 | 10.78 | 10.54 | 10.22 | 10.22 | 10.22 | 10.22 | 10.22 | 10.22 | 10.22 |
| Combined Cycle | 4.87 | 5.25 | 7.46 | 8.73 | 10.20 | 10.20 | 10.20 | 11.06 | 11.98 | 13.09 | 14.08 | 15.49 | 16.48 |
| Combustion Turbine/ Diesel | 6.42 | 7.60 | 10.22 | 10.22 | 10.19 | 10.19 | 10.06 | 9.98 | 9.95 | 9.95 | 9.90 | 10.06 | 10.16 |
| Nuclear Power | 3.90 | 3.90 | 3.91 | 3.91 | 3.92 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 |
| Pumped Storage/Other 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 |
| Total | 40.02 | 40.75 | 45.18 | 45.70 | 46.05 | 45.83 | 45.39 | 46.17 | 47.06 | 48.17 | 49.38 | 51.25 | 52.35 |
| Southeastern Electric Reliability Council/ excluding Florida | | | | | | | | | | | | | |
| Coal Steam | 71.53 | 71.64 | 71.52 | 71.26 | 71.26 | 71.27 | 71.27 | 71.16 | 71.16 | 71.51 | 72.60 | 73.94 | 74.32 |
| Other Fossil Steam 1/ | 19.01 | 19.01 | 18.98 | 18.78 | 18.76 | 13.59 | 7.19 | 7.19 | 7.14 | 7.14 | 7.10 | 7.10 | 7.10 |
| Combined Cycle | 7.41 | 11.75 | 21.07 | 28.31 | 28.83 | 28.83 | 28.83 | 28.83 | 28.83 | 31.35 | 34.69 | 38.36 | 40.10 |
| Combustion Turbine/ Diesel | 19.15 | 23.30 | 29.14 | 30.43 | 30.43 | 29.85 | 29.65 | 28.39 | 28.39 | 28.30 | 28.52 | 28.86 | 29.01 |
| Nuclear Power | 31.88 | 32.05 | 32.08 | 32.20 | 32.48 | 32.84 | 32.91 | 33.04 | 33.04 | 33.05 | 33.21 | 33.21 | 33.36 |
| Pumped Storage/Other 2/ | 6.40 | 6.47 | 6.81 | 6.87 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 11.75 | 11.76 | 11.78 | 11.78 | 11.78 | 11.78 | 11.78 | 11.78 | 11.78 | 11.86 | 11.89 | 11.91 | 12.05 |
| Total | 167.13 | 175.96 | 191.38 | 199.64 | 200.47 | 195.10 | 188.57 | 187.33 | 187.28 | 190.15 | 194.95 | 200.32 | 202.88 |
| Southwest Power Pool | | | | | | | | | | | | | |
| Coal Steam | 21.60 | 21.60 | 21.60 | 21.60 | 21.60 | 21.60 | 21.60 | 21.07 | 20.59 | 20.59 | 20.96 | 20.96 | 21.33 |

**Table 75. Electric Generation Capacity by Electricity Market Module Region and Source**
**(Gigawatts)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other Fossil Steam 1/ | 13.36 | 13.23 | 13.09 | 13.01 | 12.96 | 11.03 | 9.08 | 7.37 | 5.74 | 4.45 | 4.45 | 4.42 | 4.40 |
| Combined Cycle | 1.95 | 3.65 | 9.55 | 11.08 | 11.08 | 11.08 | 11.08 | 10.78 | 10.78 | 10.78 | 11.32 | 11.32 | 13.05 |
| Combustion Turbine/ Diesel | 4.81 | 5.50 | 6.72 | 7.05 | 7.05 | 6.65 | 6.54 | 6.54 | 6.54 | 6.26 | 7.59 | 7.19 | 8.88 |
| Nuclear Power | 1.17 | 1.17 | 1.17 | 1.17 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 |
| Pumped Storage/Other 2/ | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 2.47 | 2.67 | 2.68 | 2.68 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.70 | 2.70 | 2.70 |
| Total | 45.87 | 48.31 | 55.32 | 57.10 | 57.06 | 54.73 | 52.67 | 50.12 | 48.02 | 46.45 | 48.70 | 48.27 | 52.04 |
| | | | | | | | | | | | | | |
| Western Systems Coordinating Council/ | | | | | | | | | | | | | |
| Northwest Power Pool Area | | | | | | | | | | | | | |
| Coal Steam | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 11.23 | 11.23 | 11.23 | 11.23 | 11.23 | 11.23 |
| Other Fossil Steam 1/ | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 |
| Combined Cycle | 2.08 | 2.08 | 3.35 | 3.89 | 3.89 | 4.51 | 5.59 | 7.54 | 8.16 | 9.23 | 10.48 | 12.08 | 13.07 |
| Combustion Turbine/ Diesel | 1.20 | 1.55 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 |
| Nuclear Power | 1.11 | 1.11 | 1.11 | 1.11 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 |
| Pumped Storage/Other 2/ | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 36.20 | 36.29 | 36.45 | 36.78 | 36.86 | 37.11 | 37.34 | 37.52 | 37.59 | 37.71 | 37.76 | 37.91 | 37.96 |
| Total | 52.61 | 53.06 | 55.24 | 56.11 | 56.23 | 57.12 | 58.45 | 60.84 | 61.56 | 62.77 | 64.14 | 65.95 | 67.06 |
| | | | | | | | | | | | | | |
| Western System Coordinating Council/ | | | | | | | | | | | | | |
| Rocky Mountain Power Area & Arizona | | | | | | | | | | | | | |
| Coal Steam | 15.61 | 15.61 | 15.61 | 15.61 | 15.61 | 15.61 | 15.50 | 15.50 | 15.50 | 16.18 | 16.18 | 16.81 | 16.81 |
| Other Fossil Steam 1/ | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.76 | 1.45 | 0.11 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Combined Cycle | 2.89 | 4.87 | 8.47 | 11.95 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 |
| Combustion Turbine/ Diesel | 3.18 | 3.78 | 4.61 | 4.88 | 4.88 | 4.88 | 4.76 | 4.70 | 4.04 | 4.04 | 4.04 | 4.04 | 4.04 |
| Nuclear Power | 2.71 | 2.71 | 2.71 | 2.75 | 2.75 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 |
| Pumped Storage/Other 2/ | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 5.84 | 6.27 | 6.27 | 6.44 | 6.46 | 6.50 | 6.50 | 6.52 | 6.52 | 6.64 | 6.65 | 6.78 | 6.78 |
| Total | 33.76 | 36.78 | 41.21 | 45.17 | 46.28 | 46.37 | 44.84 | 43.43 | 42.69 | 43.51 | 43.53 | 44.31 | 44.37 |
| | | | | | | | | | | | | | |
| Western System Coordinating Council/ | | | | | | | | | | | | | |
| California-Southern Nevada Power | | | | | | | | | | | | | |
| Coal Steam | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.05 | 5.69 | 6.41 | 6.41 | 6.41 | 6.41 | 6.41 | 6.41 |
| Other Fossil Steam 1/ | 19.67 | 19.67 | 19.67 | 19.67 | 19.67 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 |
| Combined Cycle | 2.14 | 4.01 | 6.23 | 7.15 | 7.79 | 8.67 | 9.99 | 13.01 | 14.58 | 16.02 | 17.80 | 19.93 | 21.72 |
| Combustion Turbine/ Diesel | 4.35 | 5.89 | 7.23 | 7.61 | 9.65 | 9.58 | 9.54 | 9.62 | 9.62 | 9.62 | 9.62 | 9.62 | 9.62 |
| Nuclear Power | 5.33 | 5.33 | 5.33 | 5.35 | 5.35 | 5.40 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 |
| Pumped Storage/Other 2/ | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Renewable Sources 3/ | 15.40 | 15.50 | 15.64 | 15.96 | 15.86 | 16.31 | 16.44 | 16.63 | 16.64 | 16.64 | 16.65 | 16.65 | 16.66 |
| Total | 55.68 | 59.19 | 62.89 | 64.52 | 67.15 | 67.95 | 70.04 | 74.09 | 75.77 | 77.30 | 79.18 | 81.41 | 83.29 |

**Table 75. Electric Generation Capacity by Electricity Market Module Region and Source**
**(Gigawatts)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| East Central Area Reliability Coordination Agreement | | | | | | | | | | | | | | |
| Coal Steam | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.32 | 81.52 | 81.52 | 81.96 | -0.1% |
| Other Fossil Steam 1/ | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | -6.3% |
| Combined Cycle | 20.08 | 20.08 | 22.43 | 22.43 | 25.61 | 25.61 | 29.22 | 29.22 | 33.21 | 33.21 | 37.69 | 37.69 | 42.04 | 10.1% |
| Combustion Turbine/ Diesel | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.50 | 20.59 | 20.38 | 20.81 | 1.6% |
| Nuclear Power | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | 5.99 | -1.0% |
| Pumped Storage/Other 2/ | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | 3.36 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 3/ | 1.98 | 1.98 | 2.02 | 2.02 | 2.04 | 2.04 | 2.10 | 2.10 | 2.14 | 2.14 | 2.22 | 2.22 | 2.26 | 1.3% |
| Total | 134.03 | 134.03 | 136.41 | 136.41 | 139.62 | 139.62 | 143.29 | 143.29 | 147.31 | 147.31 | 152.16 | 151.95 | 157.21 | 1.2% |
| Electric Reliability Council of Texas | | | | | | | | | | | | | | |
| Coal Steam | 15.82 | 16.11 | 16.11 | 16.32 | 16.32 | 16.32 | 16.32 | 16.32 | 16.32 | 16.32 | 16.32 | 16.32 | 16.63 | 0.4% |
| Other Fossil Steam 1/ | 15.71 | 15.71 | 14.80 | 14.80 | 14.80 | 14.80 | 14.80 | 14.58 | 14.58 | 14.34 | 14.34 | 14.34 | 13.94 | -3.2% |
| Combined Cycle | 27.63 | 31.02 | 31.02 | 32.40 | 32.40 | 32.99 | 32.99 | 33.17 | 33.41 | 33.72 | 34.92 | 35.42 | 36.74 | 5.1% |
| Combustion Turbine/ Diesel | 12.35 | 13.00 | 13.00 | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 13.25 | 13.39 | 2.8% |
| Nuclear Power | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 0.2% |
| Pumped Storage/Other 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 3/ | 2.71 | 2.72 | 2.73 | 2.74 | 2.75 | 2.75 | 2.76 | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 | 2.78 | 2.2% |
| Total | 79.76 | 84.18 | 83.31 | 85.23 | 85.31 | 85.98 | 86.05 | 86.07 | 86.38 | 86.50 | 87.77 | 88.33 | 89.74 | 1.0% |
| Mid-Atlantic Area Council | | | | | | | | | | | | | | |
| Coal Steam | 20.18 | 20.18 | 20.18 | 20.18 | 20.18 | 20.59 | 20.59 | 20.59 | 20.59 | 20.59 | 20.59 | 21.23 | 21.23 | 0.3% |
| Other Fossil Steam 1/ | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.38 | 8.18 | 8.18 | 8.18 | 8.18 | 8.18 | -0.1% |
| Combined Cycle | 12.64 | 13.38 | 13.39 | 14.48 | 14.51 | 15.50 | 15.50 | 16.65 | 16.65 | 18.09 | 18.09 | 19.49 | 19.49 | 5.2% |
| Combustion Turbine/ Diesel | 11.71 | 11.71 | 11.71 | 11.71 | 11.71 | 11.83 | 11.83 | 12.06 | 12.06 | 12.33 | 12.33 | 12.51 | 12.51 | 1.0% |
| Nuclear Power | 13.42 | 13.42 | 13.42 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 13.54 | 0.2% |
| Pumped Storage/Other 2/ | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | N/A |
| Fuel Cells | 0.17 | 0.18 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | N/A |
| Renewable Sources 3/ | 2.15 | 2.18 | 2.20 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.27 | 2.27 | 2.35 | 2.35 | 0.9% |
| Total | 70.49 | 71.33 | 71.54 | 72.93 | 73.11 | 74.77 | 74.81 | 76.32 | 76.16 | 78.03 | 78.08 | 80.52 | 80.57 | 1.2% |
| Mid-America Interconnected Network | | | | | | | | | | | | | | |
| Coal Steam | 27.68 | 27.68 | 27.68 | 27.68 | 27.68 | 27.17 | 27.17 | 27.17 | 26.63 | 26.63 | 26.63 | 26.63 | 26.63 | -0.2% |
| Other Fossil Steam 1/ | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | -2.4% |
| Combined Cycle | 2.45 | 2.45 | 2.45 | 2.45 | 2.80 | 3.58 | 4.19 | 4.77 | 5.02 | 5.79 | 6.43 | 7.00 | 7.49 | 7.9% |
| Combustion Turbine/ Diesel | 14.22 | 14.22 | 14.22 | 14.22 | 14.22 | 14.53 | 14.77 | 15.01 | 16.19 | 16.38 | 16.48 | 16.63 | 16.76 | 1.6% |
| Nuclear Power | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 13.83 | 0.2% |
| Pumped Storage/Other 2/ | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 3/ | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 0.8% |
| Total | 62.65 | 62.69 | 62.73 | 62.77 | 63.25 | 63.95 | 64.93 | 65.88 | 66.89 | 67.99 | 68.87 | 69.73 | 70.50 | 0.7% |
| Mid-Continent Area Power Pool | | | | | | | | | | | | | | |
| Coal Steam | 22.57 | 23.05 | 23.79 | 24.17 | 24.79 | 25.35 | 25.90 | 26.33 | 26.83 | 27.50 | 28.08 | 28.66 | 29.24 | 1.5% |
| Other Fossil Steam 1/ | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | -2.9% |
| Combined Cycle | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.2% |
| Combustion Turbine/ Diesel | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.52 | 7.61 | 7.61 | 7.59 | 7.29 | 7.29 | 0.4% |

**Table 75. Electric Generation Capacity by Electricity Market Module Region and Source**
**(Gigawatts)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nuclear Power | 3.95 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 4.05 | 0.3% |
| Pumped Storage/Other 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 3/ | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 0.5% |
| Total | 41.33 | 41.94 | 42.70 | 43.12 | 43.77 | 44.36 | 44.95 | 45.40 | 46.02 | 46.72 | 47.31 | 47.63 | 48.24 | 1.1% |
| | | | | | | | | | | | | | | |
| Northeast Power Coordinating Council/ New York | | | | | | | | | | | | | | |
| Coal Steam | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 3.74 | 0.0% |
| Other Fossil Steam 1/ | 8.21 | 7.63 | 7.63 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | 7.39 | -2.1% |
| Combined Cycle | 10.17 | 10.17 | 10.61 | 10.61 | 10.75 | 10.75 | 12.37 | 12.80 | 14.23 | 14.40 | 15.94 | 15.94 | 15.94 | 5.9% |
| Combustion Turbine/ Diesel | 4.26 | 4.26 | 4.26 | 3.98 | 3.98 | 3.42 | 2.32 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | -2.6% |
| Nuclear Power | 5.06 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | 4.08 | -0.9% |
| Pumped Storage/Other 2/ | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 3/ | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 0.7% |
| Total | 38.34 | 36.78 | 37.21 | 36.69 | 36.84 | 36.28 | 36.80 | 37.04 | 38.47 | 38.64 | 40.19 | 40.19 | 40.19 | 0.5% |
| | | | | | | | | | | | | | | |
| Northeast Power Coordinating Council/ New England | | | | | | | | | | | | | | |
| Coal Steam | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 0.0% |
| Other Fossil Steam 1/ | 4.18 | 4.18 | 4.18 | 4.18 | 4.18 | 4.18 | 4.18 | 4.18 | 4.18 | 4.01 | 4.01 | 4.01 | 4.01 | -2.7% |
| Combined Cycle | 11.42 | 11.42 | 11.42 | 11.42 | 11.42 | 11.42 | 11.42 | 11.42 | 11.64 | 12.12 | 12.60 | 12.97 | 13.63 | 2.8% |
| Combustion Turbine/ Diesel | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 3.00 | 1.7% |
| Nuclear Power | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 0.0% |
| Pumped Storage/Other 2/ | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.8% |
| Renewable Sources 3/ | 3.40 | 3.49 | 3.57 | 3.66 | 3.81 | 3.84 | 3.93 | 4.03 | 4.03 | 4.05 | 4.05 | 4.05 | 4.05 | 1.6% |
| Total | 31.07 | 31.16 | 31.26 | 31.36 | 31.52 | 31.55 | 31.65 | 31.74 | 31.97 | 32.31 | 32.80 | 33.18 | 33.84 | 0.7% |
| | | | | | | | | | | | | | | |
| Southeastern Electric Reliability Council/ Florida | | | | | | | | | | | | | | |
| Coal Steam | 10.92 | 10.92 | 11.26 | 11.52 | 11.80 | 12.20 | 12.46 | 12.46 | 12.46 | 12.70 | 13.06 | 13.35 | 13.77 | 1.0% |
| Other Fossil Steam 1/ | 10.22 | 10.22 | 10.22 | 10.22 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | 9.71 | -1.0% |
| Combined Cycle | 17.78 | 19.04 | 20.10 | 20.91 | 21.82 | 22.94 | 23.87 | 24.77 | 25.91 | 26.79 | 27.73 | 28.31 | 29.04 | 7.4% |
| Combustion Turbine/ Diesel | 10.16 | 10.16 | 10.24 | 10.24 | 10.44 | 10.74 | 10.98 | 11.17 | 11.47 | 11.77 | 11.96 | 12.12 | 12.36 | 2.0% |
| Nuclear Power | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 3.94 | 0.0% |
| Pumped Storage/Other 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 3/ | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.65 | 0.69 | 0.75 | 1.0% |
| Total | 53.67 | 54.95 | 56.46 | 57.55 | 58.46 | 60.34 | 61.84 | 63.00 | 64.46 | 65.95 | 67.57 | 68.71 | 70.23 | 2.3% |
| | | | | | | | | | | | | | | |
| Southeastern Electric Reliability Council/ excluding Florida | | | | | | | | | | | | | | |
| Coal Steam | 75.80 | 76.71 | 80.55 | 82.70 | 85.54 | 87.98 | 90.47 | 92.57 | 93.78 | 97.47 | 100.30 | 103.12 | 106.74 | 1.7% |
| Other Fossil Steam 1/ | 7.10 | 6.79 | 6.79 | 6.79 | 6.71 | 6.71 | 6.61 | 6.61 | 6.61 | 6.61 | 6.61 | 6.61 | 6.61 | -4.3% |
| Combined Cycle | 43.02 | 45.65 | 46.20 | 46.46 | 47.16 | 47.85 | 48.59 | 49.24 | 51.33 | 51.53 | 52.33 | 52.63 | 53.02 | 6.5% |
| Combustion Turbine/ Diesel | 29.19 | 29.42 | 29.60 | 29.69 | 30.14 | 30.52 | 31.30 | 31.97 | 32.95 | 33.87 | 34.68 | 34.87 | 35.38 | 1.8% |
| Nuclear Power | 33.65 | 34.00 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 34.22 | 0.3% |
| Pumped Storage/Other 2/ | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 6.94 | 0.3% |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 3/ | 12.11 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.36 | 12.42 | 12.48 | 12.56 | 0.3% |
| Total | 207.81 | 211.76 | 216.56 | 219.07 | 222.97 | 226.48 | 230.38 | 233.80 | 238.08 | 243.00 | 247.49 | 250.86 | 255.46 | 1.6% |
| | | | | | | | | | | | | | | |
| Southwest Power Pool | | | | | | | | | | | | | | |
| Coal Steam | 21.33 | 22.04 | 22.04 | 22.24 | 22.24 | 22.24 | 22.24 | 22.24 | 22.16 | 22.16 | 22.16 | 22.25 | 24.22 | 0.5% |

**Table 75. Electric Generation Capacity by Electricity Market Module Region and Source**
**(Gigawatts)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other Fossil Steam 1/ | 4.36 | 4.36 | 4.36 | 4.36 | 4.36 | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 | 4.31 | -4.6% |
| Combined Cycle | 13.05 | 14.86 | 14.86 | 14.86 | 14.86 | 15.24 | 15.24 | 15.47 | 15.58 | 15.85 | 15.85 | 15.85 | 16.06 | 6.4% |
| Combustion Turbine/ Diesel | 8.88 | 10.54 | 10.40 | 10.91 | 10.91 | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 10.99 | 11.09 | 3.0% |
| Nuclear Power | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 0.0% |
| Pumped Storage/Other 2/ | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 3/ | 2.70 | 2.71 | 2.71 | 2.71 | 2.71 | 2.72 | 2.72 | 2.72 | 2.72 | 2.73 | 2.73 | 2.73 | 2.73 | 0.1% |
| Total | 52.01 | 56.21 | 56.07 | 56.81 | 56.81 | 57.21 | 57.22 | 57.45 | 57.49 | 57.76 | 57.76 | 57.85 | 60.14 | 0.9% |
| Western Systems Coordinating Council/ Northwest Power Pool Area | | | | | | | | | | | | | | |
| Coal Steam | 11.23 | 11.23 | 11.50 | 11.50 | 11.74 | 11.78 | 11.98 | 11.98 | 12.27 | 12.60 | 12.92 | 13.13 | 13.51 | 0.9% |
| Other Fossil Steam 1/ | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | 0.72 | N/A |
| Combined Cycle | 14.57 | 15.85 | 16.14 | 16.14 | 16.28 | 16.28 | 16.28 | 16.42 | 16.74 | 17.12 | 17.41 | 17.62 | 17.80 | 9.4% |
| Combustion Turbine/ Diesel | 2.31 | 2.43 | 3.36 | 4.38 | 5.27 | 6.27 | 7.15 | 8.24 | 9.29 | 10.47 | 11.39 | 12.26 | 13.29 | 9.4% |
| Nuclear Power | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 0.0% |
| Pumped Storage/Other 2/ | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 3/ | 38.19 | 38.22 | 38.28 | 38.39 | 38.42 | 38.50 | 38.64 | 38.87 | 38.94 | 39.00 | 39.04 | 39.21 | 39.35 | 0.3% |
| Total | 68.86 | 70.50 | 72.28 | 73.63 | 75.15 | 76.50 | 77.94 | 79.63 | 81.59 | 83.79 | 85.63 | 87.36 | 89.34 | 2.2% |
| Western System Coordinating Council/ Rocky Mountain Power Area & Arizona | | | | | | | | | | | | | | |
| Coal Steam | 18.02 | 18.21 | 19.83 | 19.83 | 21.00 | 21.00 | 22.13 | 22.13 | 22.67 | 22.67 | 23.95 | 23.95 | 25.22 | 2.0% |
| Other Fossil Steam 1/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.00 | 0.00 | N/A |
| Combined Cycle | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.05 | 13.24 | 13.24 | 13.46 | 13.46 | 13.94 | 4.5% |
| Combustion Turbine/ Diesel | 4.04 | 4.04 | 4.15 | 4.15 | 4.66 | 4.66 | 5.25 | 5.25 | 6.64 | 6.64 | 7.83 | 7.72 | 8.21 | 3.3% |
| Nuclear Power | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 0.1% |
| Pumped Storage/Other 2/ | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 3/ | 6.97 | 6.98 | 7.21 | 7.22 | 7.37 | 7.37 | 7.52 | 7.52 | 7.66 | 7.67 | 7.83 | 7.84 | 7.95 | 1.0% |
| Total | 45.83 | 46.07 | 48.10 | 48.16 | 50.16 | 50.21 | 52.26 | 52.32 | 54.78 | 54.84 | 57.89 | 57.77 | 60.30 | 2.1% |
| Western System Coordinating Council/ California-Southern Nevada Power | | | | | | | | | | | | | | |
| Coal Steam | 6.41 | 6.76 | 7.19 | 7.44 | 7.74 | 8.03 | 8.30 | 8.58 | 8.88 | 9.20 | 9.48 | 9.73 | 9.97 | 2.9% |
| Other Fossil Steam 1/ | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | 19.15 | -0.1% |
| Combined Cycle | 24.26 | 24.52 | 24.98 | 26.24 | 28.13 | 29.18 | 29.70 | 30.22 | 30.87 | 31.43 | 32.04 | 33.21 | 34.06 | 9.3% |
| Combustion Turbine/ Diesel | 9.62 | 11.19 | 12.97 | 13.76 | 13.95 | 14.54 | 15.61 | 16.84 | 18.17 | 19.71 | 21.06 | 21.71 | 22.87 | 5.8% |
| Nuclear Power | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 5.43 | 0.1% |
| Pumped Storage/Other 2/ | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | 3.73 | N/A |
| Fuel Cells | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Renewable Sources 3/ | 16.66 | 16.83 | 16.97 | 17.12 | 17.20 | 17.30 | 17.47 | 17.64 | 17.78 | 17.92 | 18.06 | 18.20 | 18.29 | 0.7% |
| Total | 85.92 | 88.59 | 91.71 | 94.49 | 97.29 | 99.65 | 102.01 | 104.54 | 107.30 | 110.24 | 112.99 | 115.56 | 118.30 | 2.9% |

**Table 75. Electric Generation Capacity by Electricity Market Module Region and Source**
**(Gigawatts)**

1/ Includes oil-, gas-, and dual-fired capacity.
2/ Other includes methane, propane, and blast furnace gas for utilities; and hydrogen, sulfur, batteries, chemicals, fish oil, and spent sulfite liquor.
3/ Renewable sources include conventional hydroelectric, geothermal, wood, wood waste, municipal solid waste, other biomass, solar thermal, photovoltaics, and wind power.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Values represent net summer capacity for utilities and nonutilities (excluding combined heat and power). Net summer capacity is the steady hourly output that generating equipment is expected to supply to system load as demonstrated by tests during summer peak load.
Sources: 2001 utility: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report ." Other 2001 and projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 76. Renewable Energy Generation by Fuel**
**East Central Area Reliability Coordination Agreement**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 1.26 | 1.30 | 1.30 | 1.34 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.10 | 0.13 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| Wood and Other Biomass 4/ | 0.15 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.07 | 0.12 | 0.12 | 0.15 | 0.15 | 0.15 | 0.15 | 0.22 | 0.22 | 0.25 | 0.25 |
| Total | 1.51 | 1.66 | 1.74 | 1.83 | 1.85 | 1.87 | 1.87 | 1.87 | 1.87 | 1.95 | 1.95 | 1.98 | 1.98 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 3.40 | 3.78 | 2.59 | 3.07 | 3.17 | 3.18 | 3.18 | 3.18 | 3.18 | 3.17 | 3.17 | 3.17 | 3.17 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.83 | 0.84 | 1.04 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 |
| Wood and Other Biomass 4/ | 1.27 | 1.44 | 2.03 | 1.81 | 1.92 | 3.49 | 3.66 | 2.68 | 2.69 | 2.85 | 3.58 | 3.57 | 3.52 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.16 | 0.33 | 0.37 | 0.44 | 0.44 | 0.44 | 0.44 | 0.67 | 0.67 | 0.78 | 0.78 |
| Total | 5.51 | 6.06 | 5.82 | 6.28 | 6.53 | 8.19 | 8.36 | 7.37 | 7.38 | 7.77 | 8.49 | 8.59 | 8.54 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.03 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.03 | 0.02 | 0.03 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.06 | 0.07 | 0.07 | 0.07 | 0.08 | 0.09 | 0.09 | 0.08 | 0.08 | 0.09 | 0.10 | 0.10 | 0.10 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood and Other Biomass 4/ | 0.12 | 0.12 | 0.12 | 0.13 | 0.14 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.18 |
| Total | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.18 | 0.19 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.37 | 0.37 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 |
| Wood and Other Biomass 4/ | 4.30 | 4.29 | 4.30 | 4.50 | 4.66 | 4.78 | 4.87 | 5.01 | 5.15 | 5.34 | 5.58 | 5.79 | 5.97 |
| Total | 4.67 | 4.66 | 4.62 | 4.82 | 4.98 | 5.10 | 5.20 | 5.33 | 5.47 | 5.67 | 5.90 | 6.11 | 6.29 |

**Table 76. Renewable Energy Generation by Fuel**
**East Central Area Reliability Coordination Agreement**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood and Other Biomass 4/ | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 |
| Total | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.03 | 0.05 | 0.06 | 0.08 | 0.10 | 0.12 | 0.12 | 0.13 |
| Total | 0.64 | 0.64 | 0.65 | 0.65 | 0.66 | 0.67 | 0.68 | 0.69 | 0.71 | 0.73 | 0.76 | 0.76 | 0.76 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |

**Table 76. Renewable Energy Generation by Fuel**
**East Central Area Reliability Coordination Agreement**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 0.2% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.3% |
| Wood and Other Biomass 4/ | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.28 | 0.8% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.25 | 0.25 | 0.29 | 0.29 | 0.31 | 0.31 | 0.37 | 0.37 | 0.41 | 0.41 | 0.49 | 0.49 | 0.49 | 22.3% |
| Total | 1.98 | 1.98 | 2.02 | 2.02 | 2.04 | 2.04 | 2.10 | 2.10 | 2.14 | 2.14 | 2.22 | 2.22 | 2.26 | 1.3% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 3.17 | 3.17 | 3.17 | 3.17 | 3.16 | 3.16 | 3.16 | 3.16 | 3.16 | 3.16 | 3.16 | 3.16 | 3.16 | -0.7% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.0% |
| Wood and Other Biomass 4/ | 3.56 | 3.62 | 3.82 | 3.82 | 3.77 | 3.78 | 3.77 | 3.69 | 3.69 | 3.68 | 3.69 | 3.68 | 3.74 | 4.0% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.78 | 0.78 | 0.91 | 0.91 | 0.98 | 0.98 | 1.17 | 1.17 | 1.32 | 1.32 | 1.57 | 1.57 | 1.57 | N/A |
| Total | 8.59 | 8.64 | 8.97 | 8.96 | 8.98 | 8.99 | 9.18 | 9.09 | 9.24 | 9.23 | 9.49 | 9.49 | 9.54 | 1.9% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | -0.7% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.6% |
| Wood and Other Biomass 4/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 3.6% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | N/A |
| Total | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 1.8% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Wood and Other Biomass 4/ | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 | 2.9% |
| Total | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.21 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 | -0.6% |
| Wood and Other Biomass 4/ | 6.14 | 6.31 | 6.46 | 6.60 | 6.75 | 6.91 | 7.07 | 7.22 | 7.37 | 7.54 | 7.71 | 7.89 | 8.06 | 2.7% |
| Total | 6.46 | 6.64 | 6.79 | 6.92 | 7.07 | 7.23 | 7.39 | 7.54 | 7.69 | 7.86 | 8.03 | 8.21 | 8.38 | 2.5% |

**Table 76. Renewable Energy Generation by Fuel**
**East Central Area Reliability Coordination Agreement**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Wood and Other Biomass 4/ | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 2.6% |
| Total | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 2.4% |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 16.5% |
| Total | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.63 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.13 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.20 | 0.22 | 0.24 | 0.26 | 0.28 | 0.30 | 22.1% |
| Total | 0.77 | 0.77 | 0.78 | 0.79 | 0.80 | 0.81 | 0.81 | 0.83 | 0.85 | 0.87 | 0.89 | 0.91 | 0.93 | 1.6% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |

**Table 76. Renewable Energy Generation by Fuel**
**East Central Area Reliability Coordination Agreement**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 77. Renewable Energy Generation by Fuel**
**Electric Reliability Council of Texas**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.01 | 0.02 | 0.06 | 0.09 | 0.09 | 0.10 | 0.11 | 0.11 | 0.12 | 0.12 | 0.13 | 0.14 | 0.14 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 |
| Wind | 0.23 | 1.12 | 1.31 | 1.69 | 1.69 | 1.81 | 1.86 | 1.92 | 1.98 | 2.03 | 2.03 | 2.03 | 2.03 |
| Total | 0.77 | 1.66 | 1.89 | 2.31 | 2.31 | 2.43 | 2.50 | 2.56 | 2.62 | 2.68 | 2.69 | 2.70 | 2.71 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.66 | 0.89 | 0.63 | 0.72 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.16 | 0.16 | 0.31 | 0.63 | 0.72 | 0.76 | 0.80 | 0.85 | 0.89 | 0.93 | 0.97 | 1.02 | 1.06 |
| Wood and Other Biomass 4/ | 0.24 | 0.41 | 0.40 | 0.24 | 0.24 | 0.25 | 0.50 | 0.51 | 0.51 | 0.53 | 0.53 | 0.53 | 0.53 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| Wind | 0.49 | 0.47 | 3.34 | 4.27 | 4.53 | 4.77 | 4.97 | 5.13 | 5.29 | 5.45 | 5.49 | 5.49 | 5.49 |
| Total | 1.55 | 1.93 | 4.68 | 5.87 | 6.23 | 6.52 | 7.01 | 7.23 | 7.44 | 7.66 | 7.74 | 7.79 | 7.83 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.01 | 0.00 | 0.03 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 |
| Total | 0.01 | 0.02 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 77. Renewable Energy Generation by Fuel**
**Electric Reliability Council of Texas**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 77. Renewable Energy Generation by Fuel**
**Electric Reliability Council of Texas**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.15 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 9.5% |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 14.7% |
| Wind | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.5% |
| Total | 2.71 | 2.72 | 2.73 | 2.74 | 2.75 | 2.75 | 2.76 | 2.77 | 2.77 | 2.77 | 2.78 | 2.78 | 2.78 | 2.2% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | -0.8% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 1.10 | 1.15 | 1.19 | 1.23 | 1.27 | 1.32 | 1.36 | 1.40 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 9.5% |
| Wood and Other Biomass 4/ | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 1.1% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.08 | N/A |
| Wind | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 5.49 | 10.8% |
| Total | 7.88 | 7.93 | 7.97 | 8.02 | 8.07 | 8.11 | 8.16 | 8.21 | 8.22 | 8.23 | 8.24 | 8.24 | 8.25 | 6.2% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | -0.8% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 14.1% |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.5% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 10.8% |
| Total | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 7.3% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |

**Table 77. Renewable Energy Generation by Fuel**
**Electric Reliability Council of Texas**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption | | | | | | | | | | | | | | |
| (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity | | | | | | | | | | | | | | |
| (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electricity Generation | | | | | | | | | | | | | | |
| (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Energy Consumption | | | | | | | | | | | | | | |
| (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |

**Table 77. Renewable Energy Generation by Fuel**
**Electric Reliability Council of Texas**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 78. Renewable Energy Generation by Fuel**
**Mid-Atlantic Area Council**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.61 | 0.63 | 0.63 | 0.63 | 0.63 | 0.64 | 0.66 | 0.67 | 0.68 | 0.69 | 0.70 | 0.71 | 0.72 |
| Wood and Other Biomass 4/ | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | 0.05 | 0.06 | 0.08 | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 |
| Total | 1.84 | 1.88 | 1.89 | 1.89 | 1.89 | 1.92 | 1.96 | 1.99 | 2.02 | 2.04 | 2.07 | 2.10 | 2.12 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 3.75 | 2.67 | 3.89 | 4.45 | 4.53 | 4.53 | 4.53 | 4.52 | 4.52 | 4.52 | 4.52 | 4.52 | 4.51 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 2.98 | 2.98 | 3.51 | 3.52 | 3.52 | 3.58 | 3.66 | 3.74 | 3.82 | 3.90 | 3.98 | 4.06 | 4.14 |
| Wood and Other Biomass 4/ | 0.24 | 0.41 | 0.41 | 0.40 | 1.00 | 1.75 | 1.98 | 2.27 | 2.66 | 2.76 | 2.81 | 3.27 | 3.29 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.01 | 0.01 | 0.05 | 0.05 | 0.05 | 0.08 | 0.12 | 0.16 | 0.21 | 0.24 | 0.27 | 0.30 | 0.33 |
| Total | 6.98 | 6.07 | 7.87 | 8.42 | 9.10 | 9.94 | 10.29 | 10.70 | 11.20 | 11.41 | 11.57 | 12.14 | 12.27 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.04 | 0.03 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.09 | 0.08 | 0.11 | 0.11 | 0.12 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.15 | 0.15 | 0.16 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Wood and Other Biomass 4/ | 1.19 | 1.19 | 1.19 | 1.25 | 1.29 | 1.33 | 1.35 | 1.39 | 1.43 | 1.48 | 1.55 | 1.61 | 1.66 |
| Total | 1.30 | 1.30 | 1.28 | 1.34 | 1.38 | 1.42 | 1.44 | 1.48 | 1.52 | 1.57 | 1.64 | 1.70 | 1.75 |

**Table 78. Renewable Energy Generation by Fuel**
**Mid-Atlantic Area Council**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Total | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 |
| Total | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.21 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 78. Renewable Energy Generation by Fuel**
**Mid-Atlantic Area Council**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.74 | 0.75 | 0.76 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.9% |
| Wood and Other Biomass 4/ | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.14 | 0.14 | 0.21 | 0.21 | 8.5% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.14 | 0.15 | 0.16 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 7.0% |
| Total | 2.15 | 2.18 | 2.20 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.27 | 2.27 | 2.35 | 2.35 | 0.9% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 4.51 | 4.51 | 4.51 | 4.51 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 4.50 | 2.2% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 4.21 | 4.29 | 4.37 | 4.45 | 4.47 | 4.47 | 4.47 | 4.47 | 4.47 | 4.47 | 4.47 | 4.47 | 4.47 | 1.7% |
| Wood and Other Biomass 4/ | 3.46 | 3.38 | 3.38 | 3.20 | 3.18 | 3.06 | 3.07 | 3.06 | 3.08 | 3.15 | 3.21 | 3.55 | 3.62 | 9.5% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.36 | 0.39 | 0.42 | 0.45 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 17.3% |
| Total | 12.54 | 12.57 | 12.68 | 12.61 | 12.61 | 12.49 | 12.50 | 12.49 | 12.51 | 12.58 | 12.64 | 12.98 | 13.05 | 3.2% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 2.2% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 1.6% |
| Wood and Other Biomass 4/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 11.5% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.3% |
| Total | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 2.9% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.9% |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | -0.6% |
| Wood and Other Biomass 4/ | 1.70 | 1.75 | 1.79 | 1.83 | 1.87 | 1.92 | 1.96 | 2.01 | 2.05 | 2.09 | 2.14 | 2.19 | 2.24 | 2.7% |
| Total | 1.79 | 1.84 | 1.88 | 1.92 | 1.96 | 2.01 | 2.05 | 2.10 | 2.14 | 2.18 | 2.23 | 2.28 | 2.33 | 2.5% |

**Table 78. Renewable Energy Generation by Fuel**
**Mid-Atlantic Area Council**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 2.6% |
| Total | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 2.4% |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.5% |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.08 | 22.1% |
| Total | 0.21 | 0.21 | 0.22 | 0.22 | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 | 0.26 | 1.6% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |

**Table 78. Renewable Energy Generation by Fuel**
**Mid-Atlantic Area Council**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 79. Renewable Energy Generation by Fuel**
**Mid-America Interconnected Network**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.22 | 0.29 | 0.31 | 0.32 | 0.32 | 0.37 | 0.37 | 0.37 | 0.38 | 0.39 | 0.40 | 0.41 | 0.41 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.02 | 0.05 | 0.05 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.12 | 0.13 | 0.14 | 0.14 |
| Total | 0.92 | 1.03 | 1.05 | 1.12 | 1.12 | 1.18 | 1.18 | 1.18 | 1.19 | 1.21 | 1.22 | 1.24 | 1.24 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 2.64 | 2.89 | 2.11 | 2.41 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 1.01 | 0.72 | 2.00 | 2.06 | 2.07 | 2.52 | 2.52 | 2.52 | 2.56 | 2.63 | 2.68 | 2.74 | 2.75 |
| Wood and Other Biomass 4/ | 0.34 | 0.53 | 0.46 | 0.34 | 0.36 | 0.60 | 0.68 | 0.75 | 0.82 | 0.93 | 0.92 | 0.96 | 0.96 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.04 | 0.15 | 0.26 | 0.29 | 0.29 | 0.29 | 0.29 | 0.31 | 0.33 | 0.36 | 0.38 | 0.39 |
| Total | 3.99 | 4.19 | 4.73 | 5.08 | 5.18 | 5.86 | 5.95 | 6.01 | 6.14 | 6.34 | 6.41 | 6.52 | 6.54 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.03 | 0.03 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.02 | 0.01 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.04 | 0.04 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood and Other Biomass 4/ | 0.20 | 0.20 | 0.20 | 0.21 | 0.22 | 0.23 | 0.23 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.29 |
| Total | 0.21 | 0.21 | 0.21 | 0.22 | 0.23 | 0.24 | 0.24 | 0.25 | 0.26 | 0.27 | 0.28 | 0.29 | 0.30 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.11 | 0.11 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Wood and Other Biomass 4/ | 1.24 | 1.24 | 1.24 | 1.29 | 1.34 | 1.37 | 1.40 | 1.44 | 1.48 | 1.54 | 1.60 | 1.67 | 1.72 |
| Total | 1.34 | 1.34 | 1.33 | 1.39 | 1.43 | 1.47 | 1.49 | 1.53 | 1.57 | 1.63 | 1.70 | 1.76 | 1.81 |

**Table 79. Renewable Energy Generation by Fuel**
**Mid-America Interconnected Network**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Total | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
| Total | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.04 |
| Total | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.21 | 0.22 | 0.22 | 0.22 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 79. Renewable Energy Generation by Fuel**
**Mid-America Interconnected Network**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 1.4% |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | N/A |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 4.0% |
| Total | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 0.8% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 2.45 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | -0.7% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.75 | 2.76 | 5.8% |
| Wood and Other Biomass 4/ | 0.97 | 0.97 | 0.95 | 0.95 | 0.94 | 0.94 | 0.93 | 0.86 | 0.84 | 0.82 | 0.81 | 0.78 | 0.73 | 1.4% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 9.5% |
| Total | 6.55 | 6.55 | 6.53 | 6.53 | 6.51 | 6.51 | 6.50 | 6.44 | 6.42 | 6.39 | 6.38 | 6.36 | 6.32 | 1.7% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | -0.7% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 5.1% |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 5.7% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.5% |
| Total | 0.08 | 0.08 | 0.07 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 2.2% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Wood and Other Biomass 4/ | 0.30 | 0.31 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.35 | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 2.9% |
| Total | 0.31 | 0.32 | 0.33 | 0.33 | 0.34 | 0.35 | 0.36 | 0.37 | 0.37 | 0.38 | 0.39 | 0.40 | 0.41 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | -0.6% |
| Wood and Other Biomass 4/ | 1.77 | 1.82 | 1.86 | 1.90 | 1.94 | 1.99 | 2.03 | 2.08 | 2.12 | 2.17 | 2.22 | 2.27 | 2.32 | 2.7% |
| Total | 1.86 | 1.91 | 1.95 | 1.99 | 2.03 | 2.08 | 2.13 | 2.17 | 2.21 | 2.26 | 2.31 | 2.36 | 2.41 | 2.5% |

**Table 79. Renewable Energy Generation by Fuel**
**Mid-America Interconnected Network**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 2.6% |
| Total | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 2.4% |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 16.5% |
| Total | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.09 | 22.1% |
| Total | 0.22 | 0.22 | 0.22 | 0.23 | 0.23 | 0.23 | 0.23 | 0.24 | 0.25 | 0.25 | 0.26 | 0.26 | 0.27 | 1.6% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |

**Table 79. Renewable Energy Generation by Fuel**
**Mid-America Interconnected Network**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 80. Renewable Energy Generation by Fuel**
**Mid-Continent Area Power Pool**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| Wood and Other Biomass 4/ | 0.12 | 0.13 | 0.17 | 0.17 | 0.24 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.54 | 0.66 | 0.87 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 |
| Total | 3.95 | 4.08 | 4.34 | 4.51 | 4.58 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 12.11 | 8.44 | 12.94 | 14.81 | 15.06 | 15.05 | 15.05 | 15.04 | 15.04 | 15.03 | 15.02 | 15.02 | 15.01 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.70 | 1.02 | 0.70 | 0.71 | 0.72 | 0.72 | 0.72 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 |
| Wood and Other Biomass 4/ | 0.54 | 0.43 | 1.03 | 0.91 | 1.27 | 1.67 | 1.75 | 1.75 | 1.75 | 1.76 | 1.75 | 1.76 | 1.76 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 1.22 | 1.39 | 1.82 | 2.37 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 |
| Total | 14.58 | 11.28 | 16.49 | 18.80 | 19.55 | 19.94 | 20.02 | 20.03 | 20.03 | 20.02 | 20.02 | 20.02 | 20.00 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.12 | 0.09 | 0.13 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Total | 0.15 | 0.12 | 0.17 | 0.20 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood and Other Biomass 4/ | 0.14 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.19 | 0.20 | 0.20 |
| Total | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.20 | 0.21 | 0.21 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Wood and Other Biomass 4/ | 1.31 | 1.31 | 1.31 | 1.37 | 1.42 | 1.45 | 1.48 | 1.52 | 1.57 | 1.63 | 1.70 | 1.76 | 1.82 |
| Total | 1.42 | 1.42 | 1.41 | 1.47 | 1.52 | 1.55 | 1.58 | 1.62 | 1.67 | 1.72 | 1.80 | 1.86 | 1.92 |

**Table 80. Renewable Energy Generation by Fuel**
**Mid-Continent Area Power Pool**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Total | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.04 |
| Total | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 | 0.23 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 80. Renewable Energy Generation by Fuel**
**Mid-Continent Area Power Pool**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.2% |
| Wood and Other Biomass 4/ | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 0.29 | 3.3% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.9% |
| Total | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 4.63 | 0.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 15.00 | 15.00 | 14.99 | 14.99 | 14.98 | 14.97 | 14.97 | 14.96 | 14.96 | 14.96 | 14.96 | 14.96 | 14.96 | 2.4% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | -1.4% |
| Wood and Other Biomass 4/ | 1.76 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 | 1.74 | 1.74 | 1.74 | 1.73 | 6.0% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.5% |
| Total | 20.00 | 19.99 | 19.99 | 19.98 | 19.97 | 19.96 | 19.96 | 19.95 | 19.95 | 19.94 | 19.94 | 19.94 | 19.93 | 2.4% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 2.4% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | -1.3% |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 4.3% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 2.5% |
| Total | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 2.3% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Wood and Other Biomass 4/ | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 | 0.26 | 0.27 | 0.27 | 0.28 | 2.9% |
| Total | 0.22 | 0.22 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 | 0.26 | 0.26 | 0.27 | 0.28 | 0.28 | 0.29 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | -0.6% |
| Wood and Other Biomass 4/ | 1.87 | 1.92 | 1.97 | 2.01 | 2.05 | 2.10 | 2.15 | 2.20 | 2.24 | 2.29 | 2.35 | 2.40 | 2.45 | 2.7% |
| Total | 1.97 | 2.02 | 2.07 | 2.11 | 2.15 | 2.20 | 2.25 | 2.30 | 2.34 | 2.39 | 2.44 | 2.50 | 2.55 | 2.5% |

**Table 80. Renewable Energy Generation by Fuel**
**Mid-Continent Area Power Pool**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 2.6% |
| Total | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 2.4% |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 16.5% |
| Total | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.07 | 0.07 | 0.08 | 0.08 | 0.09 | 22.1% |
| Total | 0.23 | 0.23 | 0.24 | 0.24 | 0.24 | 0.25 | 0.25 | 0.25 | 0.26 | 0.27 | 0.27 | 0.28 | 0.28 | 1.6% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |

**Table 80. Renewable Energy Generation by Fuel**
**Mid-Continent Area Power Pool**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 81. Renewable Energy Generation by Fuel**
**Northeast Power Coordinating Council/New York**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 4.26 | 4.33 | 4.47 | 4.54 | 4.62 | 4.69 | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.29 | 0.28 | 0.28 | 0.28 | 0.28 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| Wood and Other Biomass 4/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.02 | 0.05 | 0.07 | 0.38 | 0.38 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |
| Total | 4.60 | 4.70 | 4.86 | 5.25 | 5.32 | 5.48 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 24.63 | 22.91 | 14.81 | 17.31 | 17.83 | 18.04 | 18.46 | 18.62 | 18.62 | 18.60 | 18.60 | 18.59 | 18.58 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 1.55 | 1.52 | 1.74 | 1.74 | 1.74 | 2.08 | 2.08 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 |
| Wood and Other Biomass 4/ | 0.59 | 0.72 | 0.43 | 0.55 | 0.63 | 0.70 | 1.00 | 1.61 | 1.60 | 1.56 | 1.61 | 1.62 | 1.67 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.01 | 0.01 | 0.15 | 0.91 | 1.16 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 |
| Total | 26.77 | 25.16 | 17.13 | 20.52 | 21.36 | 22.10 | 22.83 | 23.60 | 23.59 | 23.54 | 23.58 | 23.59 | 23.63 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.25 | 0.24 | 0.15 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.28 | 0.26 | 0.18 | 0.22 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.14 | 0.14 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| Wood and Other Biomass 4/ | 1.65 | 1.65 | 1.65 | 1.73 | 1.79 | 1.84 | 1.88 | 1.93 | 1.98 | 2.06 | 2.15 | 2.23 | 2.30 |
| Total | 1.80 | 1.80 | 1.78 | 1.86 | 1.92 | 1.96 | 2.00 | 2.05 | 2.11 | 2.18 | 2.27 | 2.35 | 2.42 |

**Table 81. Renewable Energy Generation by Fuel**
**Northeast Power Coordinating Council/New York**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Total | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.05 | 0.05 | 0.05 |
| Total | 0.24 | 0.25 | 0.25 | 0.25 | 0.25 | 0.26 | 0.26 | 0.27 | 0.27 | 0.28 | 0.29 | 0.29 | 0.29 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 81. Renewable Energy Generation by Fuel**
**Northeast Power Coordinating Council/New York**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 | 4.83 | 0.5% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.6% |
| Wood and Other Biomass 4/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | N/A |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 9.5% |
| Total | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 5.62 | 0.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 18.57 | 18.57 | 18.56 | 18.55 | 18.54 | 18.54 | 18.53 | 18.52 | 18.52 | 18.52 | 18.52 | 18.52 | 18.52 | -0.9% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 1.3% |
| Wood and Other Biomass 4/ | 1.60 | 1.66 | 1.55 | 1.54 | 1.47 | 1.48 | 1.48 | 1.48 | 1.48 | 1.49 | 1.48 | 1.48 | 1.48 | 3.1% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 22.4% |
| Total | 23.55 | 23.60 | 23.49 | 23.47 | 23.40 | 23.40 | 23.39 | 23.38 | 23.38 | 23.38 | 23.38 | 23.38 | 23.38 | -0.3% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | -0.9% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.8% |
| Wood and Other Biomass 4/ | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 7.2% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 22.4% |
| Total | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | -0.2% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 2.9% |
| Total | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | -0.6% |
| Wood and Other Biomass 4/ | 2.36 | 2.43 | 2.49 | 2.54 | 2.60 | 2.66 | 2.72 | 2.78 | 2.84 | 2.90 | 2.97 | 3.04 | 3.10 | 2.7% |
| Total | 2.49 | 2.56 | 2.61 | 2.67 | 2.72 | 2.78 | 2.85 | 2.91 | 2.96 | 3.03 | 3.09 | 3.16 | 3.23 | 2.5% |

**Table 81. Renewable Energy Generation by Fuel**
**Northeast Power Coordinating Council/New York**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Wood and Other Biomass 4/ | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 2.6% |
| Total | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 2.4% |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.5% |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.08 | 0.09 | 0.10 | 0.11 | 0.11 | 22.1% |
| Total | 0.29 | 0.30 | 0.30 | 0.30 | 0.31 | 0.31 | 0.31 | 0.32 | 0.33 | 0.34 | 0.34 | 0.35 | 0.36 | 1.6% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |

**Table 81. Renewable Energy Generation by Fuel**
**Northeast Power Coordinating Council/New York**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 82. Renewable Energy Generation by Fuel**
**Northeast Power Coordinating Council/New England**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.62 | 0.63 | 0.63 | 0.64 | 0.64 | 0.64 | 0.64 | 0.65 | 0.66 | 0.69 | 0.71 | 0.73 | 0.74 |
| Wood and Other Biomass 4/ | 0.44 | 0.44 | 0.44 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.47 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.01 | 0.01 | 0.02 | 0.04 | 0.04 | 0.04 | 0.07 | 0.10 | 0.12 | 0.20 | 0.26 | 0.34 | 0.39 |
| Total | 2.79 | 2.80 | 2.81 | 2.85 | 2.85 | 2.85 | 2.89 | 2.93 | 2.96 | 3.07 | 3.14 | 3.24 | 3.32 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 6.33 | 4.49 | 4.39 | 5.03 | 5.11 | 5.11 | 5.11 | 5.11 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 4.78 | 4.38 | 4.65 | 4.68 | 4.69 | 4.69 | 4.73 | 4.79 | 4.85 | 5.09 | 5.19 | 5.32 | 5.45 |
| Wood and Other Biomass 4/ | 2.51 | 2.73 | 2.44 | 2.49 | 2.51 | 2.51 | 2.54 | 2.55 | 2.55 | 2.55 | 2.55 | 2.55 | 2.58 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.01 | 0.01 | 0.04 | 0.11 | 0.13 | 0.13 | 0.20 | 0.30 | 0.39 | 0.67 | 0.84 | 1.13 | 1.34 |
| Total | 13.62 | 11.61 | 11.52 | 12.31 | 12.45 | 12.44 | 12.58 | 12.74 | 12.89 | 13.41 | 13.68 | 14.10 | 14.46 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.07 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.07 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 |
| Wood and Other Biomass 4/ | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.17 | 0.14 | 0.14 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 0.18 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Wood and Other Biomass 4/ | 0.52 | 0.52 | 0.52 | 0.55 | 0.57 | 0.58 | 0.60 | 0.62 | 0.64 | 0.66 | 0.69 | 0.72 | 0.75 |
| Total | 0.55 | 0.55 | 0.55 | 0.58 | 0.60 | 0.62 | 0.63 | 0.65 | 0.67 | 0.69 | 0.73 | 0.75 | 0.78 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.72 | 0.71 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 |
| Wood and Other Biomass 4/ | 8.27 | 8.27 | 8.27 | 8.67 | 8.97 | 9.20 | 9.39 | 9.64 | 9.92 | 10.29 | 10.74 | 11.15 | 11.50 |
| Total | 8.99 | 8.98 | 8.89 | 9.29 | 9.59 | 9.82 | 10.01 | 10.26 | 10.54 | 10.91 | 11.36 | 11.77 | 12.12 |

**Table 82. Renewable Energy Generation by Fuel**
**Northeast Power Coordinating Council/New England**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood and Other Biomass 4/ | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 |
| Total | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 |
| Total | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.02 | 0.03 | 0.05 | 0.07 | 0.09 | 0.11 | 0.15 | 0.19 | 0.24 | 0.24 | 0.25 |
| Total | 1.22 | 1.23 | 1.25 | 1.26 | 1.27 | 1.29 | 1.31 | 1.34 | 1.37 | 1.41 | 1.46 | 1.46 | 1.47 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |

**Table 82. Renewable Energy Generation by Fuel**
**Northeast Power Coordinating Council/New England**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.76 | 0.78 | 0.80 | 0.82 | 0.84 | 0.86 | 0.88 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 1.5% |
| Wood and Other Biomass 4/ | 0.47 | 0.48 | 0.48 | 0.49 | 0.50 | 0.50 | 0.51 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.7% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.45 | 0.51 | 0.57 | 0.63 | 0.76 | 0.76 | 0.82 | 0.89 | 0.89 | 0.91 | 0.91 | 0.91 | 0.91 | 19.0% |
| Total | 3.40 | 3.49 | 3.57 | 3.66 | 3.81 | 3.84 | 3.93 | 4.03 | 4.03 | 4.05 | 4.05 | 4.05 | 4.05 | 1.6% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 5.09 | 5.09 | 5.09 | 5.09 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 5.08 | 0.5% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 5.58 | 5.71 | 5.84 | 5.98 | 6.12 | 6.27 | 6.41 | 6.56 | 6.60 | 6.60 | 6.60 | 6.60 | 6.60 | 1.7% |
| Wood and Other Biomass 4/ | 2.62 | 2.66 | 2.70 | 2.74 | 2.79 | 2.83 | 2.88 | 2.92 | 2.93 | 2.93 | 2.93 | 2.93 | 2.93 | 0.3% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 1.54 | 1.75 | 1.97 | 2.19 | 2.59 | 2.70 | 2.88 | 3.12 | 3.18 | 3.25 | 3.25 | 3.25 | 3.25 | 26.3% |
| Total | 14.83 | 15.21 | 15.60 | 16.00 | 16.58 | 16.88 | 17.25 | 17.68 | 17.79 | 17.87 | 17.87 | 17.87 | 17.87 | 1.8% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.5% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 1.7% |
| Wood and Other Biomass 4/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.8% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 26.3% |
| Total | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 1.8% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.0% |
| Wood and Other Biomass 4/ | 0.77 | 0.79 | 0.81 | 0.83 | 0.85 | 0.87 | 0.89 | 0.91 | 0.93 | 0.96 | 0.98 | 1.00 | 1.03 | 2.9% |
| Total | 0.80 | 0.83 | 0.85 | 0.86 | 0.88 | 0.91 | 0.93 | 0.95 | 0.97 | 0.99 | 1.01 | 1.04 | 1.06 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | -0.6% |
| Wood and Other Biomass 4/ | 11.82 | 12.16 | 12.45 | 12.71 | 12.99 | 13.30 | 13.62 | 13.91 | 14.19 | 14.52 | 14.84 | 15.19 | 15.52 | 2.7% |
| Total | 12.44 | 12.78 | 13.07 | 13.33 | 13.61 | 13.92 | 14.24 | 14.53 | 14.81 | 15.14 | 15.46 | 15.81 | 16.14 | 2.5% |

**Table 82. Renewable Energy Generation by Fuel**
**Northeast Power Coordinating Council/New England**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Wood and Other Biomass 4/ | 0.15 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.20 | 2.6% |
| Total | 0.17 | 0.17 | 0.17 | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 2.4% |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.09 | 0.09 | 0.10 | 0.11 | 16.5% |
| Total | 0.18 | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.20 | 0.21 | 0.22 | 0.22 | 0.23 | 0.24 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.25 | 0.26 | 0.28 | 0.29 | 0.31 | 0.33 | 0.35 | 0.38 | 0.42 | 0.46 | 0.49 | 0.53 | 0.57 | 22.1% |
| Total | 1.47 | 1.48 | 1.50 | 1.52 | 1.53 | 1.55 | 1.57 | 1.61 | 1.64 | 1.68 | 1.72 | 1.76 | 1.79 | 1.6% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |

**Table 82. Renewable Energy Generation by Fuel**
**Northeast Power Coordinating Council/New England**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 83. Renewable Energy Generation by Fuel**
**Florida Reliability Coordinating Council**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.52 | 0.52 | 0.53 | 0.53 | 0.53 | 0.53 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.09 | 0.15 | 0.19 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 3.20 | 3.27 | 3.50 | 3.50 | 3.50 | 3.50 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 |
| Wood and Other Biomass 4/ | 0.40 | 0.57 | 0.34 | 0.65 | 0.62 | 0.68 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 3.68 | 3.99 | 4.03 | 4.37 | 4.34 | 4.40 | 4.55 | 4.55 | 4.55 | 4.55 | 4.55 | 4.55 | 4.55 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Wood and Other Biomass 4/ | 0.26 | 0.26 | 0.26 | 0.28 | 0.29 | 0.29 | 0.30 | 0.31 | 0.32 | 0.33 | 0.35 | 0.36 | 0.38 |
| Total | 0.28 | 0.28 | 0.28 | 0.29 | 0.30 | 0.31 | 0.32 | 0.33 | 0.34 | 0.35 | 0.37 | 0.38 | 0.39 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 83. Renewable Energy Generation by Fuel**
**Florida Reliability Coordinating Council**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |
| Total | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 83. Renewable Energy Generation by Fuel**
**Florida Reliability Coordinating Council**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.2% |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.06 | 0.10 | 0.16 | 10.4% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.65 | 0.69 | 0.75 | 1.0% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 1.7% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.64 | 3.65 | 0.5% |
| Wood and Other Biomass 4/ | 0.69 | 0.68 | 0.69 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.88 | 1.11 | 1.44 | 4.0% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 4.55 | 4.55 | 4.55 | 4.54 | 4.54 | 4.54 | 4.54 | 4.54 | 4.54 | 4.55 | 4.74 | 4.97 | 5.31 | 1.2% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.7% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.2% |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 5.9% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.9% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.0% |
| Wood and Other Biomass 4/ | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 | 0.46 | 0.47 | 0.48 | 0.49 | 0.51 | 0.52 | 2.9% |
| Total | 0.40 | 0.42 | 0.43 | 0.44 | 0.45 | 0.46 | 0.47 | 0.48 | 0.49 | 0.50 | 0.51 | 0.52 | 0.53 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |

**Table 83. Renewable Energy Generation by Fuel**
**Florida Reliability Coordinating Council**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 16.5% |
| Total | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |

**Table 83. Renewable Energy Generation by Fuel**
**Florida Reliability Coordinating Council**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 84. Renewable Energy Generation by Fuel**
**Southeastern Electric Reliability Council**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.18 | 0.19 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.24 | 0.24 | 0.24 | 0.24 |
| Wood and Other Biomass 4/ | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.08 | 0.10 | 0.24 |
| Total | 11.75 | 11.76 | 11.78 | 11.78 | 11.78 | 11.78 | 11.78 | 11.78 | 11.78 | 11.86 | 11.89 | 11.91 | 12.05 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 19.45 | 25.89 | 28.65 | 32.77 | 33.33 | 33.32 | 33.30 | 33.29 | 33.28 | 33.26 | 33.25 | 33.23 | 33.22 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.47 | 0.46 | 1.37 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.64 | 1.64 | 1.64 | 1.64 |
| Wood and Other Biomass 4/ | 0.94 | 1.11 | 1.84 | 2.54 | 3.05 | 3.38 | 3.48 | 3.37 | 3.46 | 3.50 | 3.47 | 3.43 | 3.45 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.20 | 0.29 | 0.36 | 0.82 |
| Total | 20.86 | 27.45 | 31.86 | 36.74 | 37.81 | 38.13 | 38.21 | 38.09 | 38.16 | 38.60 | 38.65 | 38.67 | 39.13 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.20 | 0.27 | 0.29 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Wood and Other Biomass 4/ | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| Total | 0.22 | 0.29 | 0.35 | 0.40 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.42 | 0.42 | 0.42 | 0.42 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| Wood and Other Biomass 4/ | 2.20 | 2.20 | 2.20 | 2.32 | 2.41 | 2.48 | 2.53 | 2.61 | 2.69 | 2.80 | 2.94 | 3.06 | 3.16 |
| Total | 2.35 | 2.35 | 2.35 | 2.46 | 2.55 | 2.62 | 2.68 | 2.75 | 2.83 | 2.95 | 3.08 | 3.20 | 3.30 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.83 | 0.82 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 |
| Wood and Other Biomass 4/ | 9.53 | 9.53 | 9.53 | 9.99 | 10.34 | 10.60 | 10.81 | 11.11 | 11.43 | 11.86 | 12.38 | 12.85 | 13.25 |
| Total | 10.36 | 10.35 | 10.25 | 10.70 | 11.05 | 11.31 | 11.53 | 11.83 | 12.14 | 12.57 | 13.09 | 13.56 | 13.97 |

**Table 84. Renewable Energy Generation by Fuel**
**Southeastern Electric Reliability Council**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Wood and Other Biomass 4/ | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.17 | 0.17 |
| Total | 0.14 | 0.14 | 0.14 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.17 | 0.18 | 0.18 | 0.19 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.19 | 0.19 | 0.20 |
| Total | 0.55 | 0.56 | 0.57 | 0.57 | 0.59 | 0.60 | 0.62 | 0.64 | 0.67 | 0.70 | 0.74 | 0.74 | 0.75 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.01 | 0.03 | 0.04 | 0.06 | 0.08 | 0.10 | 0.13 | 0.17 | 0.22 | 0.27 | 0.28 | 0.29 |
| Total | 1.41 | 1.41 | 1.44 | 1.45 | 1.46 | 1.48 | 1.51 | 1.54 | 1.58 | 1.62 | 1.68 | 1.68 | 1.69 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |

**Table 84. Renewable Energy Generation by Fuel**
**Southeastern Electric Reliability Council**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | 11.24 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 1.1% |
| Wood and Other Biomass 4/ | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.42 | 0.48 | 0.54 | 0.62 | 2.8% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.30 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 0.46 | 21.9% |
| Total | 12.11 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.26 | 12.36 | 12.42 | 12.48 | 12.56 | 0.3% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 33.21 | 33.19 | 33.18 | 33.16 | 33.15 | 33.13 | 33.12 | 33.11 | 33.11 | 33.11 | 33.11 | 33.11 | 33.11 | 1.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.65 | 5.5% |
| Wood and Other Biomass 4/ | 3.44 | 3.48 | 3.42 | 3.42 | 3.42 | 3.42 | 3.42 | 3.42 | 3.44 | 3.83 | 4.19 | 4.52 | 4.95 | 6.4% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 1.02 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | N/A |
| Total | 39.31 | 39.84 | 39.76 | 39.75 | 39.74 | 39.72 | 39.70 | 39.70 | 39.72 | 40.10 | 40.46 | 40.80 | 41.23 | 1.7% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 1.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 6.2% |
| Wood and Other Biomass 4/ | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 5.6% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | N/A |
| Total | 0.42 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.44 | 0.44 | 1.8% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.0% |
| Wood and Other Biomass 4/ | 3.26 | 3.36 | 3.44 | 3.52 | 3.61 | 3.70 | 3.79 | 3.88 | 3.96 | 4.06 | 4.15 | 4.26 | 4.36 | 2.9% |
| Total | 3.40 | 3.50 | 3.59 | 3.66 | 3.75 | 3.84 | 3.93 | 4.02 | 4.10 | 4.20 | 4.29 | 4.40 | 4.50 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | 0.71 | -0.6% |
| Wood and Other Biomass 4/ | 13.62 | 14.01 | 14.34 | 14.64 | 14.97 | 15.32 | 15.69 | 16.03 | 16.35 | 16.72 | 17.10 | 17.50 | 17.88 | 2.7% |
| Total | 14.34 | 14.72 | 15.06 | 15.36 | 15.68 | 16.04 | 16.41 | 16.74 | 17.06 | 17.44 | 17.81 | 18.21 | 18.60 | 2.5% |

**Table 84. Renewable Energy Generation by Fuel**
**Southeastern Electric Reliability Council**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.0% |
| Wood and Other Biomass 4/ | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 | 2.6% |
| Total | 0.19 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 0.22 | 0.22 | 0.23 | 0.23 | 0.24 | 0.24 | 0.25 | 2.4% |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.20 | 0.21 | 0.22 | 0.24 | 0.25 | 0.26 | 0.28 | 0.31 | 0.34 | 0.37 | 0.40 | 0.44 | 0.47 | 16.5% |
| Total | 0.75 | 0.75 | 0.77 | 0.78 | 0.80 | 0.81 | 0.83 | 0.86 | 0.89 | 0.92 | 0.95 | 0.98 | 1.01 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.29 | 0.30 | 0.32 | 0.34 | 0.36 | 0.38 | 0.40 | 0.44 | 0.48 | 0.53 | 0.57 | 0.62 | 0.66 | 22.1% |
| Total | 1.70 | 1.71 | 1.73 | 1.75 | 1.77 | 1.79 | 1.81 | 1.85 | 1.89 | 1.93 | 1.98 | 2.02 | 2.07 | 1.6% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |

**Table 84. Renewable Energy Generation by Fuel**
**Southeastern Electric Reliability Council**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 85. Renewable Energy Generation by Fuel**
**Southwest Power Pool**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 |
| Wind | 0.00 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Total | 2.47 | 2.67 | 2.68 | 2.68 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.70 | 2.70 | 2.70 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 4.62 | 5.06 | 4.39 | 5.02 | 5.10 | 5.10 | 5.10 | 5.10 | 5.10 | 5.09 | 5.09 | 5.09 | 5.09 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.12 | 0.12 | 0.08 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 |
| Wood and Other Biomass 4/ | 0.24 | 0.41 | 0.44 | 0.24 | 0.24 | 0.31 | 0.35 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.37 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 |
| Wind | 0.00 | 0.00 | 0.59 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| Total | 4.98 | 5.58 | 5.51 | 5.96 | 6.05 | 6.11 | 6.16 | 6.16 | 6.17 | 6.17 | 6.19 | 6.19 | 6.20 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Municipal Solid Waste 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Wood and Other Biomass 4/ | 0.43 | 0.43 | 0.43 | 0.45 | 0.47 | 0.48 | 0.49 | 0.51 | 0.52 | 0.54 | 0.57 | 0.59 | 0.61 |
| Total | 0.45 | 0.45 | 0.45 | 0.48 | 0.49 | 0.51 | 0.52 | 0.53 | 0.55 | 0.57 | 0.60 | 0.62 | 0.64 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |

**Table 85. Renewable Energy Generation by Fuel**
**Southwest Power Pool**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.04 |
| Total | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.13 | 0.14 | 0.14 | 0.14 | 0.14 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 85. Renewable Energy Generation by Fuel**
**Southwest Power Pool**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | N/A |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | N/A |
| Wind | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.2% |
| Total | 2.70 | 2.71 | 2.71 | 2.71 | 2.71 | 2.72 | 2.72 | 2.72 | 2.72 | 2.73 | 2.73 | 2.73 | 2.73 | 0.1% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 5.09 | 5.08 | 5.08 | 5.08 | 5.08 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 5.07 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | -0.2% |
| Wood and Other Biomass 4/ | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.36 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | -0.4% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.04 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.12 | N/A |
| Wind | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | N/A |
| Total | 6.21 | 6.21 | 6.21 | 6.22 | 6.22 | 6.22 | 6.23 | 6.24 | 6.24 | 6.25 | 6.26 | 6.27 | 6.27 | 0.5% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Municipal Solid Waste 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.3% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | N/A |
| Total | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.6% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.0% |
| Wood and Other Biomass 4/ | 0.63 | 0.65 | 0.67 | 0.68 | 0.70 | 0.72 | 0.74 | 0.75 | 0.77 | 0.79 | 0.81 | 0.83 | 0.84 | 2.9% |
| Total | 0.66 | 0.68 | 0.69 | 0.71 | 0.73 | 0.74 | 0.76 | 0.78 | 0.80 | 0.81 | 0.83 | 0.85 | 0.87 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.6% |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 2.7% |
| Total | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 2.5% |

**Table 85. Renewable Energy Generation by Fuel**
**Southwest Power Pool**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.6% |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.4% |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.07 | 0.07 | 0.08 | 0.08 | 0.09 | 16.5% |
| Total | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.20 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.1% |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.6% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |

**Table 85. Renewable Energy Generation by Fuel**
**Southwest Power Pool**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 86. Renewable Energy Generation by Fuel**
**Western Systems Coordinating Council/Northwest Power Pool Area**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 35.67 | 35.67 | 35.67 | 35.67 | 35.67 | 35.67 | 35.67 | 35.67 | 35.67 | 35.67 | 35.65 | 35.64 | 35.64 |
| Geothermal 2/ | 0.23 | 0.24 | 0.24 | 0.25 | 0.31 | 0.34 | 0.44 | 0.57 | 0.65 | 0.70 | 0.77 | 0.91 | 0.95 |
| Municipal Solid Waste 3/ | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| Wood and Other Biomass 4/ | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 |
| Wind | 0.04 | 0.12 | 0.28 | 0.60 | 0.60 | 0.74 | 0.87 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 |
| Total | 36.20 | 36.29 | 36.45 | 36.78 | 36.86 | 37.11 | 37.34 | 37.52 | 37.59 | 37.71 | 37.76 | 37.91 | 37.96 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 137.79 | 96.39 | 132.89 | 152.02 | 154.59 | 154.52 | 154.45 | 154.40 | 154.31 | 154.27 | 154.11 | 153.93 | 153.87 |
| Geothermal 2/ | 1.52 | 1.46 | 1.60 | 1.67 | 2.09 | 2.37 | 3.14 | 4.11 | 4.92 | 5.26 | 5.90 | 6.87 | 7.31 |
| Municipal Solid Waste 3/ | 0.44 | 0.46 | 0.72 | 0.73 | 0.75 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 |
| Wood and Other Biomass 4/ | 0.67 | 0.88 | 0.91 | 0.79 | 0.79 | 0.84 | 0.86 | 0.90 | 0.92 | 0.97 | 0.98 | 1.03 | 1.05 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.05 | 0.07 | 0.08 |
| Wind | 0.30 | 0.36 | 0.75 | 1.71 | 1.98 | 2.41 | 2.84 | 3.03 | 3.03 | 3.16 | 3.21 | 3.21 | 3.21 |
| Total | 140.72 | 99.54 | 136.87 | 156.92 | 160.22 | 161.18 | 162.35 | 163.50 | 164.25 | 164.75 | 165.30 | 166.15 | 166.55 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 1.42 | 0.99 | 1.37 | 1.56 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.58 | 1.58 | 1.58 |
| Geothermal 2/ | 0.03 | 0.03 | 0.03 | 0.04 | 0.05 | 0.06 | 0.08 | 0.12 | 0.14 | 0.15 | 0.17 | 0.20 | 0.22 |
| Municipal Solid Waste 3/ | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.01 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Total | 1.47 | 1.04 | 1.43 | 1.64 | 1.68 | 1.70 | 1.73 | 1.76 | 1.79 | 1.80 | 1.82 | 1.85 | 1.86 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Wood and Other Biomass 4/ | 0.35 | 0.35 | 0.35 | 0.37 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.45 | 0.47 | 0.49 | 0.51 |
| Total | 0.38 | 0.38 | 0.38 | 0.39 | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 | 0.47 | 0.49 | 0.51 | 0.53 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Wood and Other Biomass 4/ | 0.50 | 0.50 | 0.50 | 0.52 | 0.54 | 0.55 | 0.56 | 0.58 | 0.59 | 0.62 | 0.64 | 0.67 | 0.69 |
| Total | 0.54 | 0.54 | 0.53 | 0.56 | 0.58 | 0.59 | 0.60 | 0.62 | 0.63 | 0.65 | 0.68 | 0.71 | 0.73 |

**Table 86. Renewable Energy Generation by Fuel**
**Western Systems Coordinating Council/Northwest Power Pool Area**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 |
| Total | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 86. Renewable Energy Generation by Fuel**
**Western Systems Coordinating Council/Northwest Power Pool Area**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 35.64 | 35.64 | 35.64 | 35.64 | 35.64 | 35.64 | 35.64 | 35.64 | 35.64 | 35.64 | 35.64 | 35.64 | 35.64 | 0.0% |
| Geothermal 2/ | 1.06 | 1.08 | 1.12 | 1.22 | 1.25 | 1.32 | 1.45 | 1.68 | 1.72 | 1.75 | 1.75 | 1.90 | 1.99 | 9.3% |
| Municipal Solid Waste 3/ | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 1.2% |
| Wood and Other Biomass 4/ | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 1.1% |
| Solar Thermal | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 23.5% |
| Solar Photovoltaic 5/ | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.09 | 0.09 | 42.1% |
| Wind | 1.06 | 1.06 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.10 | 1.12 | 1.15 | 1.17 | 1.21 | 10.1% |
| Total | 38.19 | 38.22 | 38.28 | 38.39 | 38.42 | 38.50 | 38.64 | 38.87 | 38.94 | 39.00 | 39.04 | 39.21 | 39.35 | 0.3% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 153.83 | 153.76 | 153.69 | 153.62 | 153.57 | 153.52 | 153.42 | 153.36 | 153.36 | 153.36 | 153.36 | 153.36 | 153.36 | 2.0% |
| Geothermal 2/ | 8.21 | 8.51 | 8.80 | 9.59 | 9.79 | 10.48 | 11.50 | 13.31 | 13.59 | 13.90 | 14.03 | 15.01 | 15.72 | 10.4% |
| Municipal Solid Waste 3/ | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.94 | 0.95 | 3.1% |
| Wood and Other Biomass 4/ | 1.09 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.11 | 1.0% |
| Solar Thermal | 0.11 | 0.11 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 | 0.17 | N/A |
| Solar Photovoltaic 5/ | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | N/A |
| Wind | 3.50 | 3.60 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.67 | 3.75 | 3.84 | 3.95 | 4.03 | 4.15 | 10.7% |
| Total | 167.77 | 168.14 | 168.43 | 169.17 | 169.33 | 169.99 | 170.93 | 172.69 | 173.07 | 173.48 | 173.74 | 174.81 | 175.67 | 2.4% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 2.0% |
| Geothermal 2/ | 0.25 | 0.26 | 0.27 | 0.29 | 0.30 | 0.32 | 0.35 | 0.41 | 0.42 | 0.43 | 0.43 | 0.47 | 0.49 | 11.7% |
| Municipal Solid Waste 3/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 3.9% |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 1.8% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 10.7% |
| Total | 1.89 | 1.90 | 1.91 | 1.94 | 1.94 | 1.97 | 2.00 | 2.06 | 2.07 | 2.08 | 2.08 | 2.11 | 2.14 | 3.0% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.0% |
| Wood and Other Biomass 4/ | 0.52 | 0.54 | 0.55 | 0.56 | 0.58 | 0.59 | 0.61 | 0.62 | 0.63 | 0.65 | 0.67 | 0.68 | 0.70 | 2.9% |
| Total | 0.54 | 0.56 | 0.57 | 0.59 | 0.60 | 0.61 | 0.63 | 0.64 | 0.66 | 0.67 | 0.69 | 0.70 | 0.72 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | -0.6% |
| Wood and Other Biomass 4/ | 0.71 | 0.73 | 0.75 | 0.76 | 0.78 | 0.80 | 0.82 | 0.83 | 0.85 | 0.87 | 0.89 | 0.91 | 0.93 | 2.7% |
| Total | 0.75 | 0.77 | 0.78 | 0.80 | 0.82 | 0.83 | 0.85 | 0.87 | 0.89 | 0.91 | 0.93 | 0.95 | 0.97 | 2.5% |

**Table 86. Renewable Energy Generation by Fuel**
**Western Systems Coordinating Council/Northwest Power Pool Area**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 2.6% |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 2.4% |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 | 16.5% |
| Total | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 22.1% |
| Total | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 1.6% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |

**Table 86. Renewable Energy Generation by Fuel**
**Western Systems Coordinating Council/Northwest Power Pool Area**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

Table 87. Renewable Energy Generation by Fuel
Western Systems Coordinating Council/Rocky Mountain Power Area, Arizona, New Mexico, and Southern Nevada

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 5.37 | 5.37 | 5.37 | 5.37 | 5.37 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 |
| Geothermal 2/ | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.35 | 0.35 | 0.38 | 0.38 |
| Municipal Solid Waste 3/ | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Solar Photovoltaic 5/ | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 |
| Wind | 0.12 | 0.54 | 0.54 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.80 | 0.80 | 0.90 | 0.90 |
| Total | 5.84 | 6.27 | 6.27 | 6.44 | 6.46 | 6.50 | 6.50 | 6.52 | 6.52 | 6.64 | 6.65 | 6.78 | 6.78 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 15.74 | 14.30 | 13.04 | 14.92 | 15.17 | 15.15 | 15.14 | 15.13 | 15.12 | 15.12 | 15.11 | 15.11 | 15.10 |
| Geothermal 2/ | 2.64 | 2.51 | 2.99 | 2.99 | 2.99 | 2.99 | 2.99 | 2.99 | 2.99 | 3.16 | 3.16 | 3.36 | 3.36 |
| Municipal Solid Waste 3/ | 0.12 | 0.15 | 0.23 | 0.24 | 0.27 | 0.30 | 0.33 | 0.34 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 |
| Wood and Other Biomass 4/ | 0.24 | 0.41 | 0.42 | 0.27 | 0.30 | 0.33 | 0.35 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.09 | 0.12 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.05 | 0.06 | 0.06 | 0.07 | 0.08 | 0.09 |
| Wind | 0.01 | 0.06 | 1.58 | 1.94 | 2.06 | 2.06 | 2.06 | 2.06 | 2.06 | 2.41 | 2.41 | 2.76 | 2.76 |
| Total | 18.75 | 17.43 | 18.27 | 20.38 | 20.82 | 20.92 | 20.99 | 21.06 | 21.08 | 21.60 | 21.61 | 22.16 | 22.17 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.16 | 0.15 | 0.13 | 0.15 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| Geothermal 2/ | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 |
| Municipal Solid Waste 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.00 | 0.00 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 |
| Total | 0.23 | 0.21 | 0.22 | 0.24 | 0.24 | 0.25 | 0.25 | 0.25 | 0.25 | 0.26 | 0.26 | 0.27 | 0.27 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table 87. Renewable Energy Generation by Fuel
Western Systems Coordinating Council/Rocky Mountain Power Area, Arizona, New Mexico, and Southern Nevada

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Table 87. Renewable Energy Generation by Fuel
Western Systems Coordinating Council/Rocky Mountain Power Area, Arizona, New Mexico, and Southern Nevada

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 5.36 | 0.0% |
| Geothermal 2/ | 0.40 | 0.40 | 0.43 | 0.43 | 0.45 | 0.45 | 0.48 | 0.48 | 0.51 | 0.51 | 0.53 | 0.53 | 0.53 | 2.0% |
| Municipal Solid Waste 3/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 2.1% |
| Wood and Other Biomass 4/ | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | N/A |
| Solar Thermal | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | N/A |
| Solar Photovoltaic 5/ | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 10.3% |
| Wind | 1.06 | 1.06 | 1.27 | 1.27 | 1.40 | 1.40 | 1.51 | 1.51 | 1.62 | 1.62 | 1.76 | 1.76 | 1.87 | 5.3% |
| Total | 6.97 | 6.98 | 7.21 | 7.22 | 7.37 | 7.37 | 7.52 | 7.52 | 7.66 | 7.67 | 7.83 | 7.84 | 7.95 | 1.0% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 15.09 | 15.08 | 15.08 | 15.07 | 15.07 | 15.06 | 15.06 | 15.05 | 15.05 | 15.05 | 15.05 | 15.05 | 15.05 | 0.2% |
| Geothermal 2/ | 3.58 | 3.58 | 3.77 | 3.77 | 3.96 | 3.96 | 4.23 | 4.23 | 4.47 | 4.47 | 4.61 | 4.63 | 4.66 | 2.6% |
| Municipal Solid Waste 3/ | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 3.5% |
| Wood and Other Biomass 4/ | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | -0.3% |
| Solar Thermal | 0.14 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 0.18 | 0.18 | 0.18 | N/A |
| Solar Photovoltaic 5/ | 0.09 | 0.10 | 0.11 | 0.11 | 0.12 | 0.13 | 0.14 | 0.14 | 0.15 | 0.16 | 0.17 | 0.17 | 0.18 | N/A |
| Wind | 3.36 | 3.36 | 4.11 | 4.11 | 4.56 | 4.56 | 4.97 | 4.97 | 5.36 | 5.36 | 5.89 | 5.89 | 6.28 | 21.0% |
| Total | 22.99 | 22.99 | 23.94 | 23.94 | 24.59 | 24.60 | 25.28 | 25.28 | 25.92 | 25.93 | 26.61 | 26.64 | 27.07 | 1.9% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.2% |
| Geothermal 2/ | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 2.4% |
| Municipal Solid Waste 3/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.5% |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.0% |
| Solar Thermal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wind | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 21.0% |
| Total | 0.28 | 0.28 | 0.29 | 0.29 | 0.30 | 0.30 | 0.31 | 0.31 | 0.32 | 0.32 | 0.33 | 0.33 | 0.34 | 2.0% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |

Table 87. Renewable Energy Generation by Fuel
Western Systems Coordinating Council/Rocky Mountain Power Area, Arizona, New Mexico, and Southern Nevada

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wood and Other Biomass 4/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |

Table 87. Renewable Energy Generation by Fuel
Western Systems Coordinating Council/Rocky Mountain Power Area, Arizona, New Mexico, and Southern Nevada

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 88. Renewable Energy Generation by Fuel**
**Western Systems Coordinating Council/California**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 10.62 | 10.64 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 |
| Geothermal 2/ | 2.29 | 2.29 | 2.29 | 2.29 | 2.18 | 2.36 | 2.36 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 |
| Municipal Solid Waste 3/ | 0.33 | 0.33 | 0.38 | 0.42 | 0.43 | 0.54 | 0.54 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 |
| Wood and Other Biomass 4/ | 0.39 | 0.39 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |
| Solar Thermal | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 |
| Solar Photovoltaic 5/ | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 |
| Wind | 1.44 | 1.51 | 1.54 | 1.82 | 1.82 | 1.98 | 2.10 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 |
| Total | 15.40 | 15.50 | 15.64 | 15.96 | 15.86 | 16.31 | 16.44 | 16.63 | 16.64 | 16.64 | 16.65 | 16.65 | 16.66 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 38.79 | 24.57 | 36.33 | 41.57 | 42.28 | 42.26 | 42.24 | 42.23 | 42.21 | 42.19 | 42.17 | 42.15 | 42.13 |
| Geothermal 2/ | 9.67 | 9.65 | 8.98 | 8.98 | 8.65 | 9.72 | 10.07 | 10.47 | 10.47 | 10.49 | 10.49 | 10.49 | 10.49 |
| Municipal Solid Waste 3/ | 2.20 | 1.99 | 2.67 | 2.93 | 3.07 | 3.93 | 3.96 | 3.97 | 3.98 | 3.99 | 4.00 | 4.00 | 4.00 |
| Wood and Other Biomass 4/ | 2.45 | 2.75 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 |
| Solar Thermal | 0.49 | 0.49 | 0.51 | 0.51 | 0.52 | 0.52 | 0.52 | 0.53 | 0.53 | 0.54 | 0.54 | 0.54 | 0.55 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.06 | 0.07 | 0.07 | 0.08 | 0.10 |
| Wind | 3.52 | 3.40 | 3.51 | 4.12 | 4.31 | 4.67 | 5.18 | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 | 5.68 |
| Total | 57.12 | 42.85 | 54.50 | 60.62 | 61.35 | 63.61 | 64.50 | 65.39 | 65.40 | 65.42 | 65.43 | 65.42 | 65.42 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 0.40 | 0.25 | 0.37 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 |
| Geothermal 2/ | 0.19 | 0.20 | 0.20 | 0.20 | 0.19 | 0.22 | 0.24 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Municipal Solid Waste 3/ | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Wood and Other Biomass 4/ | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Solar Thermal | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.04 | 0.03 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| Total | 0.69 | 0.55 | 0.68 | 0.75 | 0.75 | 0.80 | 0.82 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Wood and Other Biomass 4/ | 0.16 | 0.16 | 0.16 | 0.17 | 0.18 | 0.18 | 0.19 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 | 0.23 |
| Total | 0.17 | 0.17 | 0.17 | 0.18 | 0.19 | 0.19 | 0.20 | 0.20 | 0.21 | 0.22 | 0.23 | 0.24 | 0.25 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Wood and Other Biomass 4/ | 0.68 | 0.68 | 0.68 | 0.71 | 0.74 | 0.76 | 0.77 | 0.79 | 0.81 | 0.85 | 0.88 | 0.92 | 0.94 |
| Total | 0.74 | 0.74 | 0.73 | 0.76 | 0.79 | 0.81 | 0.82 | 0.84 | 0.87 | 0.90 | 0.93 | 0.97 | 1.00 |

**Table 88. Renewable Energy Generation by Fuel**
**Western Systems Coordinating Council/California**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.06 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |
| Total | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.12 | 0.12 | 0.12 | 0.12 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 88. Renewable Energy Generation by Fuel**
**Western Systems Coordinating Council/California**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 10.66 | 0.0% |
| Geothermal 2/ | 2.41 | 2.48 | 2.53 | 2.61 | 2.61 | 2.63 | 2.73 | 2.83 | 2.88 | 2.93 | 2.98 | 3.03 | 3.12 | 1.3% |
| Municipal Solid Waste 3/ | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 2.1% |
| Wood and Other Biomass 4/ | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.3% |
| Solar Thermal | 0.34 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.4% |
| Solar Photovoltaic 5/ | 0.04 | 0.05 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.09 | 0.09 | 0.10 | 0.10 | 0.11 | 0.12 | 12.5% |
| Wind | 2.24 | 2.32 | 2.40 | 2.47 | 2.54 | 2.61 | 2.67 | 2.74 | 2.82 | 2.90 | 2.99 | 3.06 | 3.06 | 3.0% |
| Total | 16.66 | 16.83 | 16.97 | 17.12 | 17.20 | 17.30 | 17.47 | 17.64 | 17.78 | 17.92 | 18.06 | 18.20 | 18.29 | 0.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 42.12 | 42.10 | 42.08 | 42.07 | 42.05 | 42.03 | 42.01 | 42.00 | 42.00 | 42.00 | 42.00 | 42.00 | 42.00 | 2.3% |
| Geothermal 2/ | 10.49 | 11.08 | 11.47 | 12.06 | 12.06 | 12.35 | 13.13 | 13.92 | 14.32 | 14.71 | 15.10 | 15.50 | 16.20 | 2.2% |
| Municipal Solid Waste 3/ | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.00 | 4.02 | 3.0% |
| Wood and Other Biomass 4/ | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | -0.4% |
| Solar Thermal | 0.55 | 0.56 | 0.56 | 0.57 | 0.57 | 0.58 | 0.58 | 0.59 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 1.0% |
| Solar Photovoltaic 5/ | 0.11 | 0.12 | 0.14 | 0.15 | 0.17 | 0.18 | 0.20 | 0.22 | 0.23 | 0.25 | 0.26 | 0.28 | 0.29 | 21.1% |
| Wind | 5.68 | 5.97 | 6.26 | 6.51 | 6.78 | 7.02 | 7.26 | 7.50 | 7.78 | 8.10 | 8.41 | 8.68 | 8.68 | 4.0% |
| Total | 65.42 | 66.31 | 67.00 | 67.83 | 68.11 | 68.64 | 69.67 | 70.71 | 71.39 | 72.13 | 72.86 | 73.54 | 74.28 | 2.3% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 2.3% |
| Geothermal 2/ | 0.25 | 0.27 | 0.28 | 0.30 | 0.30 | 0.31 | 0.33 | 0.35 | 0.36 | 0.37 | 0.38 | 0.40 | 0.42 | 3.2% |
| Municipal Solid Waste 3/ | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 3.0% |
| Wood and Other Biomass 4/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.4% |
| Solar Thermal | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 1.0% |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.1% |
| Wind | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 4.0% |
| Total | 0.84 | 0.86 | 0.88 | 0.90 | 0.90 | 0.91 | 0.94 | 0.96 | 0.97 | 0.99 | 1.00 | 1.02 | 1.04 | 2.7% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Wood and Other Biomass 4/ | 0.24 | 0.25 | 0.26 | 0.26 | 0.27 | 0.27 | 0.28 | 0.29 | 0.29 | 0.30 | 0.31 | 0.32 | 0.32 | 2.9% |
| Total | 0.25 | 0.26 | 0.27 | 0.27 | 0.28 | 0.28 | 0.29 | 0.30 | 0.30 | 0.31 | 0.32 | 0.33 | 0.33 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | -0.6% |
| Wood and Other Biomass 4/ | 0.97 | 1.00 | 1.02 | 1.04 | 1.07 | 1.09 | 1.12 | 1.14 | 1.17 | 1.19 | 1.22 | 1.25 | 1.28 | 2.7% |
| Total | 1.02 | 1.05 | 1.07 | 1.10 | 1.12 | 1.14 | 1.17 | 1.19 | 1.22 | 1.24 | 1.27 | 1.30 | 1.33 | 2.5% |

**Table 88. Renewable Energy Generation by Fuel**
**Western Systems Coordinating Council/California**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Wood and Other Biomass 4/ | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 2.6% |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 2.4% |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 16.5% |
| Total | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.05 | 22.1% |
| Total | 0.12 | 0.12 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 0.15 | 1.6% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% |

**Table 88. Renewable Energy Generation by Fuel**
**Western Systems Coordinating Council/California**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 89. Renewable Energy Generation by Fuel**
**United States**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower | 78.23 | 78.36 | 78.53 | 78.65 | 78.74 | 78.80 | 78.94 | 78.94 | 78.94 | 78.94 | 78.92 | 78.92 | 78.92 |
| Geothermal 2/ | 2.85 | 2.86 | 2.86 | 2.87 | 2.83 | 3.03 | 3.13 | 3.32 | 3.39 | 3.46 | 3.54 | 3.70 | 3.74 |
| Municipal Solid Waste 3/ | 3.10 | 3.25 | 3.41 | 3.50 | 3.53 | 3.78 | 3.83 | 3.86 | 3.90 | 3.98 | 4.03 | 4.07 | 4.11 |
| Wood and Other Biomass 4/ | 1.67 | 1.77 | 1.84 | 1.87 | 1.94 | 2.01 | 2.03 | 2.05 | 2.05 | 2.07 | 2.07 | 2.09 | 2.10 |
| Solar Thermal | 0.33 | 0.33 | 0.33 | 0.33 | 0.34 | 0.42 | 0.43 | 0.43 | 0.43 | 0.43 | 0.44 | 0.44 | 0.44 |
| Solar Photovoltaic 5/ | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.07 | 0.08 | 0.09 | 0.10 | 0.12 | 0.13 |
| Wind | 2.45 | 4.29 | 4.99 | 6.75 | 6.75 | 7.24 | 7.58 | 7.85 | 7.95 | 8.38 | 8.47 | 8.73 | 8.93 |
| Total | 88.64 | 90.88 | 91.99 | 93.99 | 94.15 | 95.33 | 95.99 | 96.51 | 96.74 | 97.36 | 97.57 | 98.05 | 98.37 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower | 271.03 | 213.82 | 258.56 | 296.29 | 301.62 | 301.73 | 302.08 | 302.19 | 302.08 | 302.01 | 301.85 | 301.66 | 301.58 |
| Geothermal 2/ | 14.09 | 13.81 | 13.78 | 13.85 | 13.97 | 15.31 | 16.44 | 17.81 | 18.63 | 19.16 | 19.81 | 20.98 | 21.42 |
| Municipal Solid Waste 3/ | 17.46 | 16.98 | 22.33 | 23.15 | 23.46 | 25.43 | 25.81 | 26.05 | 26.30 | 26.98 | 27.30 | 27.62 | 27.89 |
| Wood and Other Biomass 4/ | 7.79 | 7.90 | 10.73 | 10.79 | 12.51 | 16.08 | 17.41 | 17.38 | 17.97 | 18.40 | 19.20 | 19.71 | 19.79 |
| Solar Thermal | 0.49 | 0.49 | 0.51 | 0.52 | 0.52 | 0.67 | 0.71 | 0.75 | 0.76 | 0.76 | 0.77 | 0.78 | 0.79 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.04 | 0.06 | 0.08 | 0.10 | 0.12 | 0.15 | 0.18 | 0.21 | 0.24 | 0.28 | 0.32 |
| Wind | 5.59 | 5.78 | 12.16 | 16.70 | 18.02 | 19.28 | 20.53 | 21.50 | 21.82 | 23.21 | 23.62 | 24.49 | 25.19 |
| Total | 316.46 | 258.79 | 318.13 | 361.37 | 370.18 | 378.60 | 383.11 | 385.83 | 387.73 | 390.75 | 392.79 | 395.51 | 396.99 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower | 2.79 | 2.20 | 2.66 | 3.05 | 3.10 | 3.10 | 3.11 | 3.11 | 3.11 | 3.11 | 3.10 | 3.10 | 3.10 |
| Geothermal 2/ | 0.29 | 0.29 | 0.29 | 0.30 | 0.30 | 0.35 | 0.38 | 0.43 | 0.45 | 0.47 | 0.49 | 0.53 | 0.54 |
| Municipal Solid Waste 3/ | 0.27 | 0.27 | 0.33 | 0.34 | 0.34 | 0.37 | 0.37 | 0.38 | 0.38 | 0.39 | 0.39 | 0.40 | 0.40 |
| Wood and Other Biomass 4/ | 0.12 | 0.13 | 0.17 | 0.17 | 0.19 | 0.23 | 0.24 | 0.24 | 0.25 | 0.25 | 0.26 | 0.27 | 0.27 |
| Solar Thermal | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wind | 0.06 | 0.06 | 0.13 | 0.17 | 0.19 | 0.20 | 0.21 | 0.22 | 0.22 | 0.24 | 0.24 | 0.25 | 0.26 |
| Total | 3.53 | 2.96 | 3.58 | 4.03 | 4.13 | 4.25 | 4.32 | 4.38 | 4.42 | 4.47 | 4.50 | 4.56 | 4.58 |
| Combined Heat and Power 6/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 |
| Wood and Other Biomass 4/ | 4.41 | 4.41 | 4.41 | 4.64 | 4.83 | 4.96 | 5.07 | 5.22 | 5.39 | 5.61 | 5.88 | 6.12 | 6.33 |
| Total | 4.69 | 4.69 | 4.69 | 4.93 | 5.11 | 5.24 | 5.35 | 5.51 | 5.67 | 5.89 | 6.16 | 6.40 | 6.61 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Municipal Solid Waste | 2.50 | 2.46 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 |
| Wood and Other Biomass 4/ | 28.68 | 28.67 | 28.68 | 30.05 | 31.10 | 31.89 | 32.53 | 33.43 | 34.38 | 35.68 | 37.23 | 38.66 | 39.86 |
| Total | 31.18 | 31.13 | 30.83 | 32.20 | 33.25 | 34.04 | 34.68 | 35.58 | 36.53 | 37.83 | 39.38 | 40.81 | 42.01 |

**Table 89. Renewable Energy Generation by Fuel**
**United States**

| Fuels | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Wood and Other Biomass 4/ | 0.37 | 0.37 | 0.37 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.44 | 0.46 | 0.48 | 0.50 | 0.51 |
| Total | 0.42 | 0.42 | 0.42 | 0.44 | 0.45 | 0.46 | 0.47 | 0.48 | 0.49 | 0.51 | 0.53 | 0.55 | 0.56 |
| Other End-Use Generators 7/ | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.01 | 0.02 | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.18 | 0.24 | 0.30 | 0.38 | 0.39 | 0.40 |
| Total | 1.11 | 1.12 | 1.13 | 1.15 | 1.17 | 1.20 | 1.24 | 1.28 | 1.33 | 1.40 | 1.47 | 1.48 | 1.49 |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.01 | 0.02 | 0.09 | 0.12 | 0.17 | 0.23 | 0.31 | 0.40 | 0.51 | 0.65 | 0.82 | 0.83 | 0.86 |
| Total | 4.24 | 4.25 | 4.32 | 4.35 | 4.40 | 4.46 | 4.54 | 4.63 | 4.74 | 4.88 | 5.05 | 5.07 | 5.09 |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |

**Table 89. Renewable Energy Generation by Fuel**
**United States**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electric Power Sector 1/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower | 78.92 | 78.92 | 78.92 | 78.92 | 78.92 | 78.92 | 78.92 | 78.92 | 78.92 | 78.92 | 78.92 | 78.92 | 78.92 | 0.0% |
| Geothermal 2/ | 3.87 | 3.97 | 4.08 | 4.26 | 4.31 | 4.41 | 4.67 | 5.00 | 5.12 | 5.20 | 5.27 | 5.46 | 5.64 | 2.9% |
| Municipal Solid Waste 3/ | 4.15 | 4.18 | 4.22 | 4.26 | 4.28 | 4.31 | 4.34 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 4.37 | 1.2% |
| Wood and Other Biomass 4/ | 2.12 | 2.13 | 2.14 | 2.15 | 2.16 | 2.16 | 2.17 | 2.18 | 2.18 | 2.32 | 2.42 | 2.60 | 2.78 | 1.9% |
| Solar Thermal | 0.45 | 0.45 | 0.46 | 0.46 | 0.46 | 0.47 | 0.47 | 0.48 | 0.48 | 0.48 | 0.49 | 0.49 | 0.50 | 1.7% |
| Solar Photovoltaic 5/ | 0.15 | 0.16 | 0.18 | 0.20 | 0.22 | 0.23 | 0.25 | 0.27 | 0.29 | 0.30 | 0.32 | 0.34 | 0.36 | 13.9% |
| Wind | 9.34 | 9.64 | 10.06 | 10.20 | 10.55 | 10.61 | 10.91 | 11.05 | 11.29 | 11.43 | 11.76 | 11.86 | 12.00 | 4.4% |
| Total | 98.98 | 99.46 | 100.05 | 100.44 | 100.89 | 101.11 | 101.73 | 102.25 | 102.63 | 103.01 | 103.54 | 104.04 | 104.56 | 0.6% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower | 301.53 | 301.47 | 301.37 | 301.30 | 301.22 | 301.17 | 301.08 | 301.01 | 301.06 | 301.12 | 301.18 | 301.24 | 301.30 | 1.4% |
| Geothermal 2/ | 22.54 | 23.45 | 24.33 | 25.71 | 26.11 | 27.09 | 29.18 | 31.78 | 32.70 | 33.41 | 34.08 | 35.48 | 36.92 | 4.2% |
| Municipal Solid Waste 3/ | 28.15 | 28.42 | 28.68 | 28.95 | 29.16 | 29.36 | 29.56 | 29.76 | 29.82 | 29.83 | 29.85 | 29.86 | 29.91 | 2.4% |
| Wood and Other Biomass 4/ | 20.03 | 20.15 | 20.21 | 20.06 | 19.96 | 19.88 | 19.92 | 19.82 | 19.85 | 20.27 | 20.90 | 21.76 | 22.59 | 4.5% |
| Solar Thermal | 0.81 | 0.82 | 0.83 | 0.84 | 0.86 | 0.87 | 0.88 | 0.90 | 0.91 | 0.93 | 0.94 | 0.95 | 0.97 | 2.9% |
| Solar Photovoltaic 5/ | 0.36 | 0.40 | 0.44 | 0.49 | 0.53 | 0.58 | 0.62 | 0.66 | 0.71 | 0.75 | 0.80 | 0.84 | 0.88 | 26.7% |
| Wind | 26.52 | 27.66 | 29.14 | 29.64 | 30.84 | 31.20 | 32.21 | 32.70 | 33.65 | 34.14 | 35.35 | 35.69 | 36.21 | 7.9% |
| Total | 399.94 | 402.36 | 405.01 | 406.99 | 408.68 | 410.15 | 413.45 | 416.63 | 418.71 | 420.46 | 423.08 | 425.83 | 428.80 | 2.1% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 3.09 | 3.10 | 3.10 | 3.10 | 3.10 | 3.10 | 1.4% |
| Geothermal 2/ | 0.58 | 0.60 | 0.63 | 0.67 | 0.69 | 0.72 | 0.78 | 0.86 | 0.89 | 0.91 | 0.93 | 0.97 | 1.01 | 5.3% |
| Municipal Solid Waste 3/ | 0.41 | 0.41 | 0.41 | 0.42 | 0.42 | 0.42 | 0.42 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 2.0% |
| Wood and Other Biomass 4/ | 0.27 | 0.28 | 0.28 | 0.28 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.28 | 0.28 | 0.29 | 0.30 | 3.4% |
| Solar Thermal | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 2.9% |
| Solar Photovoltaic 5/ | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 26.7% |
| Wind | 0.27 | 0.28 | 0.30 | 0.30 | 0.32 | 0.32 | 0.33 | 0.34 | 0.35 | 0.35 | 0.36 | 0.37 | 0.37 | 7.9% |
| Total | 4.64 | 4.68 | 4.73 | 4.78 | 4.81 | 4.84 | 4.92 | 5.01 | 5.05 | 5.08 | 5.12 | 5.17 | 5.23 | 2.4% |
| Combined Heat and Power 6/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.0% |
| Wood and Other Biomass 4/ | 6.52 | 6.72 | 6.89 | 7.04 | 7.21 | 7.39 | 7.59 | 7.76 | 7.92 | 8.12 | 8.31 | 8.52 | 8.71 | 2.9% |
| Total | 6.80 | 7.00 | 7.17 | 7.33 | 7.49 | 7.68 | 7.87 | 8.04 | 8.20 | 8.40 | 8.59 | 8.80 | 9.00 | 2.7% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | -0.6% |
| Wood and Other Biomass 4/ | 40.98 | 42.15 | 43.15 | 44.05 | 45.03 | 46.10 | 47.21 | 48.21 | 49.18 | 50.31 | 51.44 | 52.65 | 53.80 | 2.7% |
| Total | 43.13 | 44.30 | 45.30 | 46.20 | 47.18 | 48.25 | 49.36 | 50.36 | 51.33 | 52.47 | 53.59 | 54.80 | 55.95 | 2.5% |

**Table 89. Renewable Energy Generation by Fuel**
**United States**

| Fuels | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Municipal Solid Waste | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.0% |
| Wood and Other Biomass 4/ | 0.53 | 0.54 | 0.55 | 0.57 | 0.58 | 0.59 | 0.61 | 0.62 | 0.63 | 0.65 | 0.66 | 0.67 | 0.69 | 2.6% |
| Total | 0.58 | 0.59 | 0.60 | 0.61 | 0.63 | 0.64 | 0.65 | 0.67 | 0.68 | 0.69 | 0.71 | 0.72 | 0.74 | 2.4% |
| Other End-Use Generators 7/ | | | | | | | | | | | | | | |
| Generating Capacity (gigawatts) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.40 | 0.42 | 0.44 | 0.47 | 0.50 | 0.53 | 0.56 | 0.62 | 0.68 | 0.74 | 0.80 | 0.87 | 0.93 | 16.5% |
| Total | 1.50 | 1.51 | 1.54 | 1.56 | 1.59 | 1.62 | 1.65 | 1.71 | 1.77 | 1.83 | 1.90 | 1.96 | 2.03 | 2.5% |
| Electricity Generation (billion kilowatthours) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 4.23 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.87 | 0.90 | 0.96 | 1.02 | 1.08 | 1.14 | 1.20 | 1.33 | 1.45 | 1.58 | 1.71 | 1.85 | 1.98 | 22.1% |
| Total | 5.11 | 5.14 | 5.19 | 5.25 | 5.31 | 5.38 | 5.44 | 5.57 | 5.69 | 5.82 | 5.95 | 6.09 | 6.22 | 1.6% |
| Energy Consumption (quadrillion Btu) | | | | | | | | | | | | | | |
| Conventional Hydropower 8/ | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.0% |
| Geothermal 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Solar Photovoltaic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Total | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.0% |

**Table 89. Renewable Energy Generation by Fuel**
**United States**

1/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
2/ Includes hydrothermal resources only (hot water and steam).
3/ Includes landfill gas.
4/ Includes projections for energy crops after 2010.
5/ Does not include off-grid photovoltaics (PV). EIA estimates that another 76 megawatts of remote electricity generation PV applications were in service in 1999, plus an additional 205 megawatts in communications, transportation, and assorted other non-grid-connected applications.
6/ Combined heat and power produces electricity and other useful thermal energy.
7/ Includes small on-site generating systems in the residential, commercial, and industrial sectors used primarily for own-use generation, but which may also sell some power to the grid.
8/ Represents own-use industrial hydroelectric power.
Note: Totals may not equal sum of components due to independent rounding. Net summer capacity has been estimated for nonutility generators for AEO99. Net summer capacity is used to be consistent with electric utility capacity estimates. Data for electric utility capacity data are the most recently available data as of August 31, 1997. Additional retirements are also determined on the basis of the size and age of the units. Therefore, capacity estimates may differ from other Energy Information Administration sources.
Sources: 2000 and 2001 generation: EIA, Annual Energy Review 2001, DOE/EIA-0384(2001) (Washington, DC, November 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 90. Domestic Refinery Distillation Base Capacity, Expansion, and Utilization**
**(Million Barrels per Day)**

| Region | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PAD District I | | | | | | | | | | | | | |
| Base Capacity 1/ | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Cumulative Capacity Additions 2/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Capacity | 1.7 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Utilization | 92.0 | 87.0 | 90.0 | 91.0 | 88.9 | 86.7 | 89.8 | 90.0 | 92.2 | 94.3 | 94.3 | 94.3 | 94.3 |
| PAD Districts II to IV | | | | | | | | | | | | | |
| Base Capacity 1/ | 11.7 | 11.8 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 |
| Cumulative Capacity Additions 2/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.0 | 1.3 | 1.7 | 2.0 | 2.1 | 2.2 | 2.3 | 2.3 |
| Total Capacity | 11.8 | 11.9 | 11.9 | 12.3 | 12.5 | 12.9 | 13.2 | 13.5 | 13.9 | 14.0 | 14.0 | 14.1 | 14.1 |
| Utilization | 94.0 | 94.5 | 95.8 | 94.4 | 94.5 | 94.5 | 93.8 | 94.2 | 93.5 | 94.5 | 94.8 | 94.8 | 94.8 |
| PAD District V | | | | | | | | | | | | | |
| Base Capacity 1/ | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| Cumulative Capacity Additions 2/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Capacity | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| Utilization | 88.0 | 89.0 | 89.0 | 87.0 | 81.1 | 81.1 | 81.1 | 81.1 | 81.1 | 82.1 | 85.4 | 87.9 | 91.2 |
| United States | | | | | | | | | | | | | |
| Base Capacity 1/ | 16.5 | 16.6 | 16.8 | 16.8 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 |
| Cumulative Capacity Additions 2/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 1.0 | 1.3 | 1.7 | 2.0 | 2.1 | 2.2 | 2.3 | 2.3 |
| Total Capacity | 16.6 | 16.8 | 16.8 | 17.1 | 17.2 | 17.6 | 17.9 | 18.2 | 18.5 | 18.6 | 18.7 | 18.8 | 18.8 |
| Utilization | 93.0 | 93.0 | 94.0 | 93.0 | 91.5 | 91.5 | 91.3 | 91.6 | 91.3 | 92.4 | 93.2 | 93.6 | 94.2 |

**Table 90. Domestic Refinery Distillation Base Capacity, Expansion, and Utilization**
**(Million Barrels per Day)**

| Region | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PAD District I | | | | | | | | | | | | | | |
| Base Capacity 1/ | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | -0.3% |
| Cumulative Capacity Additions 2/ | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | 0.6 | 0.6 | 16.2% |
| Total Capacity | 1.6 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 | 1.9 | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 | 2.2 | 1.0% |
| Utilization | 94.3 | 94.3 | 94.3 | 94.2 | 94.2 | 94.1 | 94.1 | 94.1 | 94.1 | 94.1 | 94.0 | 94.0 | 94.0 | 0.3% |
| PAD Districts II to IV | | | | | | | | | | | | | | |
| Base Capacity 1/ | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 0.0% |
| Cumulative Capacity Additions 2/ | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 11.5% |
| Total Capacity | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 14.1 | 0.7% |
| Utilization | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 94.8 | 0.0% |
| PAD District V | | | | | | | | | | | | | | |
| Base Capacity 1/ | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 0.0% |
| Cumulative Capacity Additions 2/ | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 16.4% |
| Total Capacity | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 | 3.3 | 3.3 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.5 | 0.4% |
| Utilization | 93.2 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 94.3 | 0.2% |
| United States | | | | | | | | | | | | | | |
| Base Capacity 1/ | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 0.0% |
| Cumulative Capacity Additions 2/ | 2.3 | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 3.0 | 3.1 | 3.2 | 3.2 | 12.5% |
| Total Capacity | 18.8 | 18.8 | 18.9 | 19.0 | 19.2 | 19.3 | 19.4 | 19.5 | 19.5 | 19.6 | 19.7 | 19.7 | 19.8 | 0.7% |
| Utilization | 94.5 | 94.7 | 94.7 | 94.7 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 94.6 | 0.1% |

**Table 90. Domestic Refinery Distillation Base Capacity, Expansion, and Utilization**
**(Million Barrels per Day)**

1/ For years prior to 2004, this represents the capacity on December 31 of the previous year. For 2004 through 2025, this represents capacity on December 31, 2003.
2/ Cumulative additions after December 31, 2003.
PAD = Petroleum Administration for Defense.
N/A = Not applicable.
Note: Base capacity is for the beginning of the year.
Source: 2001: Energy Information Administration (EIA), Petroleum Supply Annual 2001, DOE/EIA-0340(2001)/1 (Washington, DC, June 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 91. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**New England**

| Product Price Components | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | |
| End-User Price | 1.64 | 1.48 | 1.41 | 1.50 | 1.42 | 1.39 | 1.43 | 1.50 | 1.49 | 1.51 | 1.52 | 1.54 | 1.52 |
| Federal Taxes | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 |
| State Taxes | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Distribution Costs | 0.24 | 0.27 | 0.24 | 0.24 | 0.24 | 0.24 | 0.26 | 0.26 | 0.26 | 0.25 | 0.25 | 0.25 | 0.25 |
| Wholesale Price | 0.95 | 0.76 | 0.72 | 0.81 | 0.74 | 0.72 | 0.74 | 0.82 | 0.81 | 0.84 | 0.86 | 0.88 | 0.87 |
| Motor Gasoline | | | | | | | | | | | | | |
| End-User Price | 1.63 | 1.50 | 1.45 | 1.53 | 1.45 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 | 1.45 | 1.44 | 1.43 |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| State Taxes 1/ | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Distribution Costs | 0.15 | 0.17 | 0.15 | 0.15 | 0.20 | 0.20 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Wholesale Price | 1.05 | 0.90 | 0.88 | 0.96 | 0.84 | 0.82 | 0.88 | 0.88 | 0.88 | 0.89 | 0.90 | 0.89 | 0.89 |
| Jet Fuel | | | | | | | | | | | | | |
| End-User Price | 1.03 | 0.87 | 0.84 | 0.89 | 0.87 | 0.84 | 0.82 | 0.81 | 0.82 | 0.82 | 0.82 | 0.83 | 0.83 |
| Federal Taxes | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| State Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Distribution Costs | -0.03 | 0.00 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 |
| Wholesale Price | 0.99 | 0.80 | 0.78 | 0.84 | 0.82 | 0.79 | 0.76 | 0.76 | 0.76 | 0.77 | 0.77 | 0.78 | 0.78 |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | |
| End-User Price | 1.31 | 1.23 | 1.11 | 1.24 | 1.16 | 1.08 | 1.07 | 1.07 | 1.07 | 1.08 | 1.09 | 1.10 | 1.11 |
| Distribution Costs | 0.38 | 0.47 | 0.39 | 0.39 | 0.44 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 |
| Wholesale Price | 0.93 | 0.76 | 0.72 | 0.85 | 0.71 | 0.69 | 0.68 | 0.68 | 0.68 | 0.69 | 0.70 | 0.71 | 0.72 |
| World Oil Price | 0.67 | 0.52 | 0.56 | 0.61 | 0.57 | 0.55 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 |

**Table 91. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**New England**

| Product Price Components | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | | |
| End-User Price | 1.50 | 1.49 | 1.49 | 1.49 | 1.51 | 1.52 | 1.52 | 1.51 | 1.53 | 1.55 | 1.56 | 1.52 | 1.53 | 0.1% |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | -2.4% |
| State Taxes | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | N/A |
| Distribution Costs | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | -0.3% |
| Wholesale Price | 0.85 | 0.85 | 0.85 | 0.86 | 0.88 | 0.90 | 0.90 | 0.90 | 0.92 | 0.94 | 0.95 | 0.93 | 0.93 | 0.9% |
| Motor Gasoline | | | | | | | | | | | | | | |
| End-User Price | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.44 | 1.44 | 1.47 | -0.1% |
| Federal Taxes | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -2.4% |
| State Taxes 1/ | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.0% |
| Distribution Costs | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | -0.4% |
| Wholesale Price | 0.89 | 0.90 | 0.90 | 0.90 | 0.91 | 0.91 | 0.91 | 0.92 | 0.92 | 0.93 | 0.94 | 0.94 | 0.98 | 0.3% |
| Jet Fuel | | | | | | | | | | | | | | |
| End-User Price | 0.85 | 0.86 | 0.86 | 0.86 | 0.86 | 0.87 | 0.89 | 0.89 | 0.91 | 0.93 | 0.94 | 0.94 | 0.95 | 0.4% |
| Federal Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | -2.4% |
| State Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Distribution Costs | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | 5.9% |
| Wholesale Price | 0.80 | 0.81 | 0.81 | 0.82 | 0.82 | 0.83 | 0.84 | 0.85 | 0.87 | 0.89 | 0.90 | 0.90 | 0.91 | 0.5% |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | | |
| End-User Price | 1.12 | 1.14 | 1.14 | 1.15 | 1.14 | 1.15 | 1.18 | 1.19 | 1.19 | 1.20 | 1.20 | 1.20 | 1.21 | -0.1% |
| Distribution Costs | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | 0.39 | -0.8% |
| Wholesale Price | 0.73 | 0.75 | 0.75 | 0.75 | 0.75 | 0.76 | 0.78 | 0.79 | 0.80 | 0.80 | 0.81 | 0.81 | 0.82 | 0.3% |
| World Oil Price | 0.58 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.63 | 0.63 | 0.8% |

**Table 91. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**New England**

1/ Includes a 2 cent average local tax.
N/A = Not applicable.
Sources: 2001 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2001 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, http://www.fhwa.dot.gov/ohim/mmfr/mmfrpage.htm, March 2001. 2001 jet fuel taxes: EIA, Office of Oil and Gas. 2001 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 92. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**Middle Atlantic**

| Product Price Components | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | |
| End-User Price | 1.62 | 1.43 | 1.35 | 1.44 | 1.39 | 1.36 | 1.39 | 1.46 | 1.45 | 1.47 | 1.48 | 1.50 | 1.48 |
| Federal Taxes | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 |
| State Taxes | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Distribution Costs | 0.19 | 0.19 | 0.18 | 0.18 | 0.18 | 0.18 | 0.19 | 0.20 | 0.19 | 0.19 | 0.19 | 0.18 | 0.18 |
| Wholesale Price | 0.94 | 0.76 | 0.69 | 0.79 | 0.74 | 0.72 | 0.74 | 0.82 | 0.81 | 0.84 | 0.86 | 0.88 | 0.86 |
| Motor Gasoline | | | | | | | | | | | | | |
| End-User Price | 1.56 | 1.40 | 1.36 | 1.44 | 1.41 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.41 | 1.40 | 1.39 |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| State Taxes 1/ | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| Distribution Costs | 0.12 | 0.11 | 0.12 | 0.12 | 0.17 | 0.18 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| Wholesale Price | 1.03 | 0.88 | 0.83 | 0.91 | 0.84 | 0.83 | 0.88 | 0.89 | 0.89 | 0.90 | 0.91 | 0.90 | 0.90 |
| Jet Fuel | | | | | | | | | | | | | |
| End-User Price | 0.99 | 0.83 | 0.79 | 0.85 | 0.82 | 0.79 | 0.76 | 0.76 | 0.76 | 0.77 | 0.77 | 0.78 | 0.78 |
| Federal Taxes | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| State Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Distribution Costs | 0.02 | 0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 |
| Wholesale Price | 0.90 | 0.76 | 0.73 | 0.79 | 0.76 | 0.73 | 0.70 | 0.70 | 0.71 | 0.71 | 0.71 | 0.73 | 0.73 |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | |
| End-User Price | 1.39 | 1.28 | 1.17 | 1.30 | 1.21 | 1.13 | 1.12 | 1.12 | 1.13 | 1.13 | 1.14 | 1.15 | 1.16 |
| Distribution Costs | 0.48 | 0.53 | 0.47 | 0.47 | 0.52 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 |
| Wholesale Price | 0.92 | 0.75 | 0.70 | 0.83 | 0.69 | 0.67 | 0.66 | 0.66 | 0.66 | 0.67 | 0.68 | 0.69 | 0.70 |
| World Oil Price | 0.67 | 0.52 | 0.56 | 0.61 | 0.57 | 0.55 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 |

**Table 92. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**Middle Atlantic**

| Product Price Components | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | | |
| End-User Price | 1.46 | 1.45 | 1.45 | 1.45 | 1.47 | 1.48 | 1.48 | 1.47 | 1.49 | 1.51 | 1.52 | 1.48 | 1.49 | 0.2% |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | -2.4% |
| State Taxes | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | N/A |
| Distribution Costs | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | -0.1% |
| Wholesale Price | 0.85 | 0.85 | 0.85 | 0.86 | 0.88 | 0.89 | 0.89 | 0.89 | 0.91 | 0.94 | 0.95 | 0.92 | 0.93 | 0.8% |
| Motor Gasoline | | | | | | | | | | | | | | |
| End-User Price | 1.39 | 1.39 | 1.39 | 1.39 | 1.39 | 1.39 | 1.39 | 1.39 | 1.39 | 1.40 | 1.40 | 1.41 | 1.44 | 0.1% |
| Federal Taxes | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -2.4% |
| State Taxes 1/ | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.0% |
| Distribution Costs | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.4% |
| Wholesale Price | 0.90 | 0.90 | 0.90 | 0.91 | 0.92 | 0.92 | 0.92 | 0.92 | 0.93 | 0.94 | 0.95 | 0.95 | 0.99 | 0.5% |
| Jet Fuel | | | | | | | | | | | | | | |
| End-User Price | 0.80 | 0.82 | 0.82 | 0.83 | 0.83 | 0.84 | 0.86 | 0.86 | 0.88 | 0.90 | 0.91 | 0.92 | 0.92 | 0.4% |
| Federal Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | -2.4% |
| State Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Distribution Costs | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | N/A |
| Wholesale Price | 0.75 | 0.77 | 0.77 | 0.78 | 0.78 | 0.79 | 0.81 | 0.81 | 0.84 | 0.86 | 0.87 | 0.87 | 0.88 | 0.6% |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | | |
| End-User Price | 1.18 | 1.20 | 1.20 | 1.20 | 1.19 | 1.21 | 1.23 | 1.24 | 1.25 | 1.25 | 1.25 | 1.26 | 1.26 | -0.1% |
| Distribution Costs | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | 0.47 | -0.5% |
| Wholesale Price | 0.71 | 0.73 | 0.73 | 0.74 | 0.73 | 0.74 | 0.77 | 0.77 | 0.78 | 0.78 | 0.79 | 0.79 | 0.80 | 0.2% |
| World Oil Price | 0.58 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.63 | 0.63 | 0.8% |

**Table 92. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**Middle Atlantic**

1/ Includes a 2 cent average local tax.
N/A = Not applicable.
Sources: 2001 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2001 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, http://www.fhwa.dot.gov/ohim/mmfr/mmfrpage.htm, March 2001. 2001 jet fuel taxes: EIA, Office of Oil and Gas. 2001 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 93. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**East North Central**

| Product Price Components | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | |
| End-User Price | 1.51 | 1.41 | 1.30 | 1.39 | 1.33 | 1.29 | 1.32 | 1.39 | 1.38 | 1.40 | 1.41 | 1.42 | 1.40 |
| Federal Taxes | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 |
| State Taxes | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| Distribution Costs | 0.12 | 0.12 | 0.14 | 0.14 | 0.14 | 0.14 | 0.15 | 0.16 | 0.15 | 0.15 | 0.15 | 0.14 | 0.14 |
| Wholesale Price | 0.92 | 0.83 | 0.70 | 0.79 | 0.74 | 0.71 | 0.72 | 0.80 | 0.79 | 0.82 | 0.84 | 0.86 | 0.84 |
| Motor Gasoline | | | | | | | | | | | | | |
| End-User Price | 1.57 | 1.49 | 1.36 | 1.44 | 1.41 | 1.40 | 1.41 | 1.41 | 1.41 | 1.42 | 1.42 | 1.41 | 1.41 |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| State Taxes 1/ | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 |
| Distribution Costs | 0.14 | 0.14 | 0.14 | 0.14 | 0.19 | 0.19 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| Wholesale Price | 0.99 | 0.91 | 0.78 | 0.87 | 0.79 | 0.78 | 0.85 | 0.85 | 0.85 | 0.87 | 0.87 | 0.86 | 0.86 |
| Jet Fuel | | | | | | | | | | | | | |
| End-User Price | 0.95 | 0.83 | 0.78 | 0.83 | 0.79 | 0.75 | 0.72 | 0.72 | 0.73 | 0.73 | 0.73 | 0.76 | 0.77 |
| Federal Taxes | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| State Taxes | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Distribution Costs | 0.00 | -0.01 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 |
| Wholesale Price | 0.91 | 0.79 | 0.74 | 0.80 | 0.76 | 0.72 | 0.70 | 0.70 | 0.70 | 0.71 | 0.71 | 0.74 | 0.74 |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | |
| End-User Price | 1.24 | 1.20 | 1.05 | 1.18 | 1.08 | 1.00 | 0.99 | 0.99 | 0.99 | 1.00 | 1.01 | 1.03 | 1.04 |
| Distribution Costs | 0.32 | 0.38 | 0.33 | 0.33 | 0.39 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| Wholesale Price | 0.92 | 0.82 | 0.71 | 0.84 | 0.69 | 0.66 | 0.65 | 0.65 | 0.66 | 0.67 | 0.68 | 0.70 | 0.71 |
| World Oil Price | 0.67 | 0.52 | 0.56 | 0.61 | 0.57 | 0.55 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 |

**Table 93. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**East North Central**

| Product Price Components | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | | |
| End-User Price | 1.38 | 1.38 | 1.38 | 1.38 | 1.40 | 1.41 | 1.40 | 1.40 | 1.42 | 1.43 | 1.44 | 1.45 | 1.45 | 0.1% |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | -2.4% |
| State Taxes | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | N/A |
| Distribution Costs | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.8% |
| Wholesale Price | 0.83 | 0.83 | 0.83 | 0.84 | 0.86 | 0.88 | 0.88 | 0.87 | 0.90 | 0.92 | 0.93 | 0.94 | 0.95 | 0.6% |
| Motor Gasoline | | | | | | | | | | | | | | |
| End-User Price | 1.40 | 1.40 | 1.40 | 1.40 | 1.43 | 1.43 | 1.43 | 1.43 | 1.43 | 1.44 | 1.46 | 1.46 | 1.50 | 0.0% |
| Federal Taxes | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -2.4% |
| State Taxes 1/ | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.0% |
| Distribution Costs | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | -0.1% |
| Wholesale Price | 0.86 | 0.86 | 0.86 | 0.87 | 0.90 | 0.91 | 0.91 | 0.92 | 0.92 | 0.93 | 0.95 | 0.96 | 1.00 | 0.4% |
| Jet Fuel | | | | | | | | | | | | | | |
| End-User Price | 0.78 | 0.80 | 0.80 | 0.80 | 0.83 | 0.84 | 0.86 | 0.86 | 0.88 | 0.90 | 0.91 | 0.91 | 0.93 | 0.5% |
| Federal Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | -2.4% |
| State Taxes | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | N/A |
| Distribution Costs | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | 2.9% |
| Wholesale Price | 0.76 | 0.78 | 0.78 | 0.78 | 0.81 | 0.82 | 0.84 | 0.84 | 0.86 | 0.88 | 0.90 | 0.90 | 0.91 | 0.6% |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | | |
| End-User Price | 1.06 | 1.09 | 1.10 | 1.11 | 1.13 | 1.15 | 1.17 | 1.18 | 1.20 | 1.22 | 1.24 | 1.24 | 1.26 | 0.2% |
| Distribution Costs | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 | -0.5% |
| Wholesale Price | 0.73 | 0.76 | 0.76 | 0.77 | 0.80 | 0.81 | 0.84 | 0.84 | 0.87 | 0.89 | 0.90 | 0.91 | 0.92 | 0.5% |
| World Oil Price | 0.58 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.63 | 0.63 | 0.8% |

**Table 93. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**East North Central**

1/ Includes a 2 cent average local tax.
N/A = Not applicable.
Sources: 2001 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2001 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, http://www.fhwa.dot.gov/ohim/mmfr/mmfrpage.htm, March 2001. 2001 jet fuel taxes: EIA, Office of Oil and Gas. 2001 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 94. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**West North Central**

| Product Price Components | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | |
| End-User Price | 1.48 | 1.39 | 1.28 | 1.36 | 1.32 | 1.29 | 1.31 | 1.38 | 1.37 | 1.39 | 1.41 | 1.42 | 1.40 |
| Federal Taxes | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 |
| State Taxes | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Distribution Costs | 0.10 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.13 | 0.13 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 |
| Wholesale Price | 0.93 | 0.84 | 0.72 | 0.82 | 0.78 | 0.75 | 0.76 | 0.84 | 0.83 | 0.86 | 0.88 | 0.90 | 0.89 |
| Motor Gasoline | | | | | | | | | | | | | |
| End-User Price | 1.52 | 1.43 | 1.33 | 1.40 | 1.37 | 1.36 | 1.38 | 1.38 | 1.37 | 1.39 | 1.39 | 1.38 | 1.37 |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| State Taxes 1/ | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 |
| Distribution Costs | 0.14 | 0.13 | 0.15 | 0.15 | 0.19 | 0.20 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Wholesale Price | 0.97 | 0.90 | 0.78 | 0.86 | 0.79 | 0.77 | 0.84 | 0.85 | 0.85 | 0.87 | 0.87 | 0.86 | 0.86 |
| Jet Fuel | | | | | | | | | | | | | |
| End-User Price | 0.98 | 0.86 | 0.82 | 0.88 | 0.84 | 0.81 | 0.78 | 0.78 | 0.78 | 0.79 | 0.79 | 0.82 | 0.82 |
| Federal Taxes | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| State Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Distribution Costs | -0.04 | -0.06 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 |
| Wholesale Price | 0.95 | 0.86 | 0.79 | 0.84 | 0.81 | 0.78 | 0.75 | 0.75 | 0.75 | 0.76 | 0.76 | 0.79 | 0.79 |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | |
| End-User Price | 1.16 | 1.09 | 1.00 | 1.13 | 1.03 | 0.96 | 0.95 | 0.95 | 0.95 | 0.96 | 0.97 | 1.00 | 1.00 |
| Distribution Costs | 0.23 | 0.25 | 0.27 | 0.27 | 0.32 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 |
| Wholesale Price | 0.93 | 0.83 | 0.73 | 0.86 | 0.72 | 0.69 | 0.68 | 0.68 | 0.69 | 0.69 | 0.71 | 0.73 | 0.74 |
| World Oil Price | 0.67 | 0.52 | 0.56 | 0.61 | 0.57 | 0.55 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 |

**Table 94. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**West North Central**

| Product Price Components | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | | |
| End-User Price | 1.38 | 1.38 | 1.38 | 1.38 | 1.40 | 1.41 | 1.41 | 1.40 | 1.42 | 1.43 | 1.44 | 1.45 | 1.46 | 0.2% |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | -2.4% |
| State Taxes | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | N/A |
| Distribution Costs | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.4% |
| Wholesale Price | 0.87 | 0.87 | 0.88 | 0.89 | 0.91 | 0.92 | 0.92 | 0.92 | 0.94 | 0.97 | 0.98 | 0.99 | 1.00 | 0.7% |
| Motor Gasoline | | | | | | | | | | | | | | |
| End-User Price | 1.36 | 1.36 | 1.36 | 1.37 | 1.39 | 1.40 | 1.40 | 1.40 | 1.40 | 1.41 | 1.42 | 1.43 | 1.47 | 0.1% |
| Federal Taxes | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -2.4% |
| State Taxes 1/ | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.0% |
| Distribution Costs | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.4% |
| Wholesale Price | 0.86 | 0.86 | 0.86 | 0.87 | 0.90 | 0.91 | 0.91 | 0.92 | 0.92 | 0.93 | 0.95 | 0.96 | 1.00 | 0.5% |
| Jet Fuel | | | | | | | | | | | | | | |
| End-User Price | 0.83 | 0.85 | 0.85 | 0.85 | 0.87 | 0.89 | 0.90 | 0.90 | 0.92 | 0.94 | 0.95 | 0.95 | 0.97 | 0.5% |
| Federal Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | -2.4% |
| State Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Distribution Costs | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -0.04 | -2.2% |
| Wholesale Price | 0.81 | 0.82 | 0.82 | 0.83 | 0.85 | 0.87 | 0.88 | 0.88 | 0.90 | 0.92 | 0.94 | 0.94 | 0.95 | 0.4% |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | | |
| End-User Price | 1.03 | 1.05 | 1.06 | 1.07 | 1.09 | 1.11 | 1.14 | 1.14 | 1.17 | 1.19 | 1.20 | 1.21 | 1.22 | 0.5% |
| Distribution Costs | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.2% |
| Wholesale Price | 0.76 | 0.79 | 0.79 | 0.80 | 0.83 | 0.84 | 0.87 | 0.88 | 0.90 | 0.92 | 0.94 | 0.94 | 0.96 | 0.6% |
| World Oil Price | 0.58 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.63 | 0.63 | 0.8% |

**Table 94. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**West North Central**

1/ Includes a 2 cent average local tax.
N/A = Not applicable.
Sources: 2001 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2001 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, http://www.fhwa.dot.gov/ohim/mmfr/mmfrpage.htm, March 2001. 2001 jet fuel taxes: EIA, Office of Oil and Gas. 2001 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 95. Components of Selected Petroleum Product Prices**

| Product Price Components | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | |
| End-User Price | 1.46 | 1.34 | 1.23 | 1.32 | 1.29 | 1.26 | 1.28 | 1.35 | 1.34 | 1.36 | 1.37 | 1.39 | 1.37 |
| Federal Taxes | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 |
| State Taxes | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| Distribution Costs | 0.13 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.15 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| Wholesale Price | 0.90 | 0.77 | 0.67 | 0.76 | 0.74 | 0.71 | 0.72 | 0.80 | 0.79 | 0.82 | 0.84 | 0.86 | 0.84 |
| Motor Gasoline | | | | | | | | | | | | | |
| End-User Price | 1.45 | 1.33 | 1.30 | 1.37 | 1.33 | 1.33 | 1.34 | 1.34 | 1.34 | 1.35 | 1.35 | 1.34 | 1.34 |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| State Taxes 1/ | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 |
| Distribution Costs | 0.12 | 0.12 | 0.13 | 0.13 | 0.18 | 0.19 | 0.14 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| Wholesale Price | 0.95 | 0.84 | 0.80 | 0.88 | 0.80 | 0.79 | 0.85 | 0.86 | 0.86 | 0.88 | 0.88 | 0.87 | 0.87 |
| Jet Fuel | | | | | | | | | | | | | |
| End-User Price | 0.99 | 0.86 | 0.81 | 0.86 | 0.82 | 0.79 | 0.76 | 0.76 | 0.77 | 0.77 | 0.77 | 0.81 | 0.81 |
| Federal Taxes | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| State Taxes | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Distribution Costs | -0.01 | -0.02 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 |
| Wholesale Price | 0.90 | 0.80 | 0.75 | 0.81 | 0.77 | 0.74 | 0.71 | 0.71 | 0.72 | 0.72 | 0.72 | 0.76 | 0.76 |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | |
| End-User Price | 1.34 | 1.25 | 1.14 | 1.27 | 1.17 | 1.09 | 1.08 | 1.08 | 1.09 | 1.09 | 1.10 | 1.13 | 1.13 |
| Distribution Costs | 0.44 | 0.49 | 0.44 | 0.44 | 0.49 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 |
| Wholesale Price | 0.90 | 0.76 | 0.70 | 0.83 | 0.67 | 0.65 | 0.64 | 0.64 | 0.65 | 0.65 | 0.66 | 0.69 | 0.69 |
| World Oil Price | 0.67 | 0.52 | 0.56 | 0.61 | 0.57 | 0.55 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 |

**Table 95. Components of Selected Petroleum Product Prices**

| Product Price Components | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | | |
| End-User Price | 1.35 | 1.34 | 1.34 | 1.34 | 1.36 | 1.37 | 1.37 | 1.36 | 1.38 | 1.40 | 1.41 | 1.41 | 1.42 | 0.2% |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | -2.4% |
| State Taxes | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | N/A |
| Distribution Costs | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | N/A |
| Wholesale Price | 0.83 | 0.83 | 0.83 | 0.84 | 0.86 | 0.87 | 0.88 | 0.87 | 0.90 | 0.92 | 0.93 | 0.94 | 0.96 | 0.9% |
| Motor Gasoline | | | | | | | | | | | | | | |
| End-User Price | 1.33 | 1.33 | 1.32 | 1.33 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.37 | 1.38 | 1.39 | 1.43 | 0.3% |
| Federal Taxes | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -2.4% |
| State Taxes 1/ | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.0% |
| Distribution Costs | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.4% |
| Wholesale Price | 0.87 | 0.87 | 0.87 | 0.88 | 0.91 | 0.92 | 0.92 | 0.92 | 0.93 | 0.94 | 0.96 | 0.97 | 1.01 | 0.8% |
| Jet Fuel | | | | | | | | | | | | | | |
| End-User Price | 0.83 | 0.84 | 0.85 | 0.85 | 0.87 | 0.89 | 0.91 | 0.91 | 0.93 | 0.95 | 0.96 | 0.97 | 0.97 | 0.5% |
| Federal Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | -2.4% |
| State Taxes | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | N/A |
| Distribution Costs | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | -0.03 | 1.8% |
| Wholesale Price | 0.78 | 0.80 | 0.80 | 0.81 | 0.83 | 0.85 | 0.86 | 0.87 | 0.89 | 0.91 | 0.92 | 0.93 | 0.93 | 0.7% |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | | |
| End-User Price | 1.15 | 1.18 | 1.17 | 1.18 | 1.19 | 1.21 | 1.24 | 1.25 | 1.25 | 1.26 | 1.26 | 1.27 | 1.27 | 0.1% |
| Distribution Costs | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | 0.44 | -0.4% |
| Wholesale Price | 0.71 | 0.74 | 0.73 | 0.74 | 0.75 | 0.77 | 0.80 | 0.81 | 0.81 | 0.82 | 0.82 | 0.83 | 0.83 | 0.4% |
| World Oil Price | 0.58 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.63 | 0.63 | 0.8% |

**Table 95. Components of Selected Petroleum Product Prices**

1/ Includes a 2 cent average local tax.
N/A = Not applicable.
Sources: 2001 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2001 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, http://www.fhwa.dot.gov/ohim/mmfr/mmfrpage.htm, March 2001. 2001 jet fuel taxes: EIA, Office of Oil and Gas. 2001 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 96. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**East South Central**

| Product Price Components | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | |
| End-User Price | 1.48 | 1.32 | 1.23 | 1.32 | 1.28 | 1.24 | 1.27 | 1.34 | 1.33 | 1.35 | 1.36 | 1.38 | 1.35 |
| Federal Taxes | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 |
| State Taxes | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| Distribution Costs | 0.17 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.17 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 |
| Wholesale Price | 0.90 | 0.77 | 0.68 | 0.78 | 0.74 | 0.71 | 0.72 | 0.80 | 0.79 | 0.82 | 0.84 | 0.86 | 0.84 |
| Motor Gasoline | | | | | | | | | | | | | |
| End-User Price | 1.48 | 1.37 | 1.33 | 1.40 | 1.35 | 1.35 | 1.37 | 1.37 | 1.36 | 1.38 | 1.38 | 1.37 | 1.36 |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| State Taxes 1/ | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Distribution Costs | 0.16 | 0.16 | 0.17 | 0.17 | 0.22 | 0.22 | 0.18 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
| Wholesale Price | 0.93 | 0.82 | 0.77 | 0.86 | 0.76 | 0.75 | 0.82 | 0.83 | 0.83 | 0.85 | 0.85 | 0.84 | 0.84 |
| Jet Fuel | | | | | | | | | | | | | |
| End-User Price | 0.96 | 0.82 | 0.79 | 0.85 | 0.79 | 0.76 | 0.73 | 0.73 | 0.73 | 0.74 | 0.74 | 0.78 | 0.78 |
| Federal Taxes | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| State Taxes | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Distribution Costs | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wholesale Price | 0.87 | 0.75 | 0.72 | 0.78 | 0.73 | 0.70 | 0.67 | 0.67 | 0.67 | 0.68 | 0.68 | 0.72 | 0.73 |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | |
| End-User Price | 1.12 | 0.97 | 0.99 | 1.12 | 1.02 | 0.95 | 0.94 | 0.94 | 0.94 | 0.95 | 0.96 | 0.98 | 0.99 |
| Distribution Costs | 0.23 | 0.21 | 0.30 | 0.30 | 0.35 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| Wholesale Price | 0.89 | 0.76 | 0.69 | 0.82 | 0.67 | 0.65 | 0.64 | 0.64 | 0.65 | 0.65 | 0.66 | 0.69 | 0.69 |
| World Oil Price | 0.67 | 0.52 | 0.56 | 0.61 | 0.57 | 0.55 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 |

**Table 96. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**East South Central**

| Product Price Components | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | | |
| End-User Price | 1.34 | 1.33 | 1.33 | 1.33 | 1.35 | 1.36 | 1.36 | 1.35 | 1.37 | 1.38 | 1.39 | 1.40 | 1.41 | 0.3% |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | -2.4% |
| State Taxes | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | N/A |
| Distribution Costs | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.4% |
| Wholesale Price | 0.83 | 0.83 | 0.83 | 0.84 | 0.86 | 0.87 | 0.88 | 0.87 | 0.90 | 0.92 | 0.93 | 0.94 | 0.95 | 0.9% |
| Motor Gasoline | | | | | | | | | | | | | | |
| End-User Price | 1.35 | 1.35 | 1.35 | 1.35 | 1.38 | 1.38 | 1.38 | 1.38 | 1.39 | 1.39 | 1.41 | 1.42 | 1.45 | 0.3% |
| Federal Taxes | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -2.4% |
| State Taxes 1/ | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.0% |
| Distribution Costs | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.3% |
| Wholesale Price | 0.84 | 0.84 | 0.84 | 0.85 | 0.88 | 0.88 | 0.89 | 0.89 | 0.90 | 0.91 | 0.93 | 0.94 | 0.98 | 0.7% |
| Jet Fuel | | | | | | | | | | | | | | |
| End-User Price | 0.80 | 0.82 | 0.82 | 0.83 | 0.85 | 0.87 | 0.89 | 0.89 | 0.91 | 0.94 | 0.95 | 0.96 | 0.97 | 0.7% |
| Federal Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | -2.4% |
| State Taxes | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | N/A |
| Distribution Costs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -2.8% |
| Wholesale Price | 0.75 | 0.77 | 0.77 | 0.78 | 0.80 | 0.82 | 0.84 | 0.84 | 0.86 | 0.89 | 0.90 | 0.91 | 0.92 | 0.8% |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | | |
| End-User Price | 1.01 | 1.04 | 1.05 | 1.05 | 1.08 | 1.09 | 1.12 | 1.13 | 1.15 | 1.17 | 1.19 | 1.20 | 1.21 | 0.9% |
| Distribution Costs | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 1.5% |
| Wholesale Price | 0.71 | 0.74 | 0.75 | 0.75 | 0.78 | 0.80 | 0.82 | 0.83 | 0.85 | 0.87 | 0.89 | 0.90 | 0.91 | 0.7% |
| World Oil Price | 0.58 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.63 | 0.63 | 0.8% |

**Table 96. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**East South Central**

1/ Includes a 2 cent average local tax.
N/A = Not applicable.
Sources: 2001 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2001 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, http://www.fhwa.dot.gov/ohim/mmfr/mmfrpage.htm, March 2001. 2001 jet fuel taxes: EIA, Office of Oil and Gas. 2001 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 97. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**West South Central**

| Product Price Components | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | |
| End-User Price | 1.45 | 1.33 | 1.23 | 1.32 | 1.28 | 1.25 | 1.27 | 1.34 | 1.33 | 1.35 | 1.36 | 1.38 | 1.36 |
| Federal Taxes | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 |
| State Taxes | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Distribution Costs | 0.11 | 0.14 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 |
| Wholesale Price | 0.88 | 0.75 | 0.67 | 0.76 | 0.73 | 0.70 | 0.71 | 0.78 | 0.78 | 0.81 | 0.82 | 0.85 | 0.83 |
| Motor Gasoline | | | | | | | | | | | | | |
| End-User Price | 1.45 | 1.34 | 1.31 | 1.39 | 1.35 | 1.34 | 1.36 | 1.36 | 1.35 | 1.36 | 1.37 | 1.35 | 1.35 |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| State Taxes 1/ | 0.22 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Distribution Costs | 0.14 | 0.14 | 0.17 | 0.17 | 0.22 | 0.23 | 0.18 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
| Wholesale Price | 0.91 | 0.80 | 0.74 | 0.83 | 0.75 | 0.74 | 0.80 | 0.80 | 0.81 | 0.82 | 0.83 | 0.82 | 0.82 |
| Jet Fuel | | | | | | | | | | | | | |
| End-User Price | 0.91 | 0.78 | 0.74 | 0.80 | 0.76 | 0.73 | 0.70 | 0.70 | 0.70 | 0.71 | 0.71 | 0.74 | 0.75 |
| Federal Taxes | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| State Taxes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Distribution Costs | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wholesale Price | 0.86 | 0.73 | 0.70 | 0.75 | 0.72 | 0.69 | 0.66 | 0.66 | 0.67 | 0.67 | 0.67 | 0.71 | 0.72 |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | |
| End-User Price | 1.18 | 0.99 | 0.88 | 1.01 | 0.92 | 0.84 | 0.83 | 0.83 | 0.84 | 0.85 | 0.86 | 0.88 | 0.89 |
| Distribution Costs | 0.31 | 0.25 | 0.21 | 0.21 | 0.26 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Wholesale Price | 0.87 | 0.73 | 0.67 | 0.80 | 0.66 | 0.64 | 0.62 | 0.63 | 0.63 | 0.64 | 0.65 | 0.67 | 0.68 |
| World Oil Price | 0.67 | 0.52 | 0.56 | 0.61 | 0.57 | 0.55 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 |

**Table 97. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**West South Central**

| Product Price Components | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | | |
| End-User Price | 1.34 | 1.33 | 1.33 | 1.34 | 1.35 | 1.36 | 1.36 | 1.35 | 1.37 | 1.39 | 1.40 | 1.40 | 1.41 | 0.2% |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | -2.4% |
| State Taxes | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | N/A |
| Distribution Costs | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | -0.2% |
| Wholesale Price | 0.81 | 0.81 | 0.82 | 0.83 | 0.85 | 0.86 | 0.86 | 0.86 | 0.88 | 0.90 | 0.92 | 0.93 | 0.94 | 1.0% |
| Motor Gasoline | | | | | | | | | | | | | | |
| End-User Price | 1.34 | 1.34 | 1.34 | 1.35 | 1.37 | 1.37 | 1.37 | 1.38 | 1.38 | 1.39 | 1.40 | 1.41 | 1.44 | 0.3% |
| Federal Taxes | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -2.4% |
| State Taxes 1/ | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.0% |
| Distribution Costs | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 1.0% |
| Wholesale Price | 0.81 | 0.82 | 0.82 | 0.83 | 0.86 | 0.86 | 0.87 | 0.87 | 0.88 | 0.89 | 0.91 | 0.91 | 0.95 | 0.7% |
| Jet Fuel | | | | | | | | | | | | | | |
| End-User Price | 0.77 | 0.79 | 0.79 | 0.80 | 0.82 | 0.84 | 0.85 | 0.86 | 0.88 | 0.90 | 0.91 | 0.92 | 0.93 | 0.7% |
| Federal Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | -2.4% |
| State Taxes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Distribution Costs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wholesale Price | 0.74 | 0.76 | 0.76 | 0.77 | 0.79 | 0.81 | 0.82 | 0.83 | 0.85 | 0.87 | 0.89 | 0.89 | 0.91 | 0.9% |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | | |
| End-User Price | 0.91 | 0.93 | 0.94 | 0.95 | 0.98 | 0.99 | 1.02 | 1.02 | 1.05 | 1.07 | 1.08 | 1.09 | 1.10 | 0.5% |
| Distribution Costs | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | -0.8% |
| Wholesale Price | 0.70 | 0.73 | 0.73 | 0.74 | 0.77 | 0.78 | 0.81 | 0.82 | 0.84 | 0.86 | 0.87 | 0.88 | 0.89 | 0.8% |
| World Oil Price | 0.58 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.63 | 0.63 | 0.8% |

**Table 97. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**West South Central**

1/ Includes a 2 cent average local tax.
N/A = Not applicable.
Sources: 2001 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2001 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, http://www.fhwa.dot.gov/ohim/mmfr/mmfrpage.htm, March 2001. 2001 jet fuel taxes: EIA, Office of Oil and Gas. 2001 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 98. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**Mountain**

| Product Price Components | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | |
| End-User Price | 1.58 | 1.45 | 1.34 | 1.43 | 1.41 | 1.37 | 1.40 | 1.47 | 1.46 | 1.48 | 1.49 | 1.51 | 1.48 |
| Federal Taxes | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 |
| State Taxes | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Distribution Costs | 0.13 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 | 0.15 |
| Wholesale Price | 0.98 | 0.86 | 0.74 | 0.84 | 0.83 | 0.79 | 0.81 | 0.88 | 0.88 | 0.91 | 0.92 | 0.94 | 0.93 |
| Motor Gasoline | | | | | | | | | | | | | |
| End-User Price | 1.59 | 1.50 | 1.41 | 1.49 | 1.49 | 1.48 | 1.50 | 1.49 | 1.49 | 1.50 | 1.51 | 1.49 | 1.49 |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| State Taxes 1/ | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| Distribution Costs | 0.14 | 0.15 | 0.16 | 0.16 | 0.21 | 0.22 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| Wholesale Price | 1.04 | 0.94 | 0.84 | 0.92 | 0.87 | 0.86 | 0.93 | 0.93 | 0.94 | 0.95 | 0.96 | 0.95 | 0.95 |
| Jet Fuel | | | | | | | | | | | | | |
| End-User Price | 1.05 | 0.90 | 0.87 | 0.93 | 0.90 | 0.86 | 0.83 | 0.83 | 0.84 | 0.84 | 0.83 | 0.86 | 0.85 |
| Federal Taxes | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| State Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Distribution Costs | -0.02 | -0.03 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 |
| Wholesale Price | 1.00 | 0.86 | 0.81 | 0.87 | 0.84 | 0.81 | 0.78 | 0.78 | 0.79 | 0.79 | 0.78 | 0.81 | 0.81 |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | |
| End-User Price | 1.19 | 1.08 | 1.05 | 1.18 | 1.11 | 1.03 | 1.02 | 1.02 | 1.02 | 1.03 | 1.04 | 1.06 | 1.07 |
| Distribution Costs | 0.22 | 0.23 | 0.28 | 0.28 | 0.33 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 |
| Wholesale Price | 0.97 | 0.85 | 0.77 | 0.90 | 0.78 | 0.75 | 0.74 | 0.74 | 0.75 | 0.75 | 0.76 | 0.78 | 0.79 |
| World Oil Price | 0.67 | 0.52 | 0.56 | 0.61 | 0.57 | 0.55 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 |

**Table 98. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**Mountain**

| Product Price Components | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | | |
| End-User Price | 1.47 | 1.46 | 1.46 | 1.46 | 1.48 | 1.49 | 1.49 | 1.48 | 1.50 | 1.51 | 1.52 | 1.53 | 1.54 | 0.2% |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | -2.4% |
| State Taxes | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | N/A |
| Distribution Costs | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.3% |
| Wholesale Price | 0.91 | 0.91 | 0.92 | 0.93 | 0.95 | 0.96 | 0.96 | 0.96 | 0.98 | 1.00 | 1.02 | 1.03 | 1.04 | 0.8% |
| Motor Gasoline | | | | | | | | | | | | | | |
| End-User Price | 1.48 | 1.48 | 1.48 | 1.48 | 1.51 | 1.51 | 1.51 | 1.51 | 1.52 | 1.52 | 1.54 | 1.54 | 1.58 | 0.2% |
| Federal Taxes | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -2.4% |
| State Taxes 1/ | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.0% |
| Distribution Costs | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.5% |
| Wholesale Price | 0.94 | 0.95 | 0.95 | 0.96 | 0.99 | 0.99 | 1.00 | 1.00 | 1.01 | 1.02 | 1.04 | 1.04 | 1.08 | 0.6% |
| Jet Fuel | | | | | | | | | | | | | | |
| End-User Price | 0.86 | 0.88 | 0.87 | 0.87 | 0.89 | 0.91 | 0.92 | 0.92 | 0.94 | 0.95 | 0.96 | 0.97 | 0.98 | 0.3% |
| Federal Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | -2.4% |
| State Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | N/A |
| Distribution Costs | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -0.02 | -2.1% |
| Wholesale Price | 0.82 | 0.83 | 0.83 | 0.83 | 0.85 | 0.86 | 0.88 | 0.88 | 0.90 | 0.91 | 0.93 | 0.93 | 0.94 | 0.4% |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | | |
| End-User Price | 1.09 | 1.12 | 1.13 | 1.14 | 1.16 | 1.18 | 1.20 | 1.21 | 1.23 | 1.25 | 1.27 | 1.27 | 1.29 | 0.7% |
| Distribution Costs | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.28 | 0.8% |
| Wholesale Price | 0.81 | 0.84 | 0.85 | 0.86 | 0.88 | 0.90 | 0.92 | 0.93 | 0.95 | 0.97 | 0.99 | 0.99 | 1.01 | 0.7% |
| World Oil Price | 0.58 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.63 | 0.63 | 0.8% |

**Table 98. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**Mountain**

1/ Includes a 2 cent average local tax.
N/A = Not applicable.
Sources: 2001 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2001 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, http://www.fhwa.dot.gov/ohim/mmfr/mmfrpage.htm, March 2001. 2001 jet fuel taxes: EIA, Office of Oil and Gas. 2001 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 99. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**Pacific**

| Product Price Components | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | |
| End-User Price | 1.67 | 1.51 | 1.40 | 1.49 | 1.39 | 1.37 | 1.42 | 1.48 | 1.46 | 1.45 | 1.48 | 1.49 | 1.51 |
| Federal Taxes | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 |
| State Taxes | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 |
| Distribution Costs | 0.17 | 0.21 | 0.20 | 0.20 | 0.20 | 0.20 | 0.21 | 0.22 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Wholesale Price | 1.01 | 0.82 | 0.73 | 0.82 | 0.73 | 0.71 | 0.75 | 0.81 | 0.80 | 0.80 | 0.84 | 0.85 | 0.87 |
| Motor Gasoline | | | | | | | | | | | | | |
| End-User Price | 1.68 | 1.60 | 1.44 | 1.52 | 1.56 | 1.54 | 1.53 | 1.56 | 1.59 | 1.59 | 1.60 | 1.57 | 1.57 |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| State Taxes 1/ | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 |
| Distribution Costs | 0.12 | 0.13 | 0.13 | 0.13 | 0.18 | 0.18 | 0.14 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 |
| Wholesale Price | 1.10 | 1.01 | 0.86 | 0.95 | 0.95 | 0.92 | 0.96 | 1.00 | 1.04 | 1.04 | 1.05 | 1.03 | 1.03 |
| Jet Fuel | | | | | | | | | | | | | |
| End-User Price | 1.03 | 0.86 | 0.83 | 0.89 | 0.73 | 0.72 | 0.73 | 0.77 | 0.77 | 0.78 | 0.78 | 0.77 | 0.77 |
| Federal Taxes | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| State Taxes | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Distribution Costs | 0.00 | -0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wholesale Price | 0.96 | 0.81 | 0.77 | 0.82 | 0.66 | 0.65 | 0.67 | 0.71 | 0.71 | 0.72 | 0.72 | 0.71 | 0.71 |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | |
| End-User Price | 1.42 | 1.31 | 1.15 | 1.29 | 1.12 | 1.06 | 1.09 | 1.10 | 1.11 | 1.11 | 1.12 | 1.10 | 1.12 |
| Distribution Costs | 0.42 | 0.49 | 0.41 | 0.41 | 0.46 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 |
| Wholesale Price | 1.00 | 0.82 | 0.75 | 0.88 | 0.66 | 0.66 | 0.68 | 0.69 | 0.70 | 0.70 | 0.71 | 0.69 | 0.71 |
| World Oil Price | 0.67 | 0.52 | 0.56 | 0.61 | 0.57 | 0.55 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 |

**Table 99. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**Pacific**

| Product Price Components | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | | |
| End-User Price | 1.51 | 1.49 | 1.58 | 1.58 | 1.51 | 1.50 | 1.50 | 1.51 | 1.53 | 1.51 | 1.52 | 1.53 | 1.53 | 0.0% |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | -2.4% |
| State Taxes | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | N/A |
| Distribution Costs | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | N/A |
| Wholesale Price | 0.87 | 0.87 | 0.96 | 0.96 | 0.90 | 0.89 | 0.90 | 0.91 | 0.93 | 0.92 | 0.93 | 0.95 | 0.95 | 0.6% |
| Motor Gasoline | | | | | | | | | | | | | | |
| End-User Price | 1.57 | 1.58 | 1.59 | 1.58 | 1.60 | 1.63 | 1.64 | 1.63 | 1.61 | 1.59 | 1.61 | 1.64 | 1.66 | 0.2% |
| Federal Taxes | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -2.4% |
| State Taxes 1/ | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.0% |
| Distribution Costs | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.0% |
| Wholesale Price | 1.03 | 1.05 | 1.05 | 1.05 | 1.07 | 1.11 | 1.12 | 1.12 | 1.10 | 1.09 | 1.11 | 1.14 | 1.16 | 0.5% |
| Jet Fuel | | | | | | | | | | | | | | |
| End-User Price | 0.77 | 0.77 | 0.80 | 0.80 | 0.80 | 0.79 | 0.79 | 0.79 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | -0.3% |
| Federal Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | -2.4% |
| State Taxes | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | N/A |
| Distribution Costs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wholesale Price | 0.71 | 0.71 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.74 | 0.75 | 0.75 | 0.75 | 0.75 | -0.3% |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | | |
| End-User Price | 1.12 | 1.13 | 1.14 | 1.15 | 1.15 | 1.16 | 1.16 | 1.16 | 1.17 | 1.14 | 1.18 | 1.19 | 1.19 | -0.4% |
| Distribution Costs | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | 0.41 | -0.8% |
| Wholesale Price | 0.71 | 0.72 | 0.74 | 0.74 | 0.74 | 0.75 | 0.75 | 0.75 | 0.76 | 0.73 | 0.77 | 0.78 | 0.78 | -0.2% |
| World Oil Price | 0.58 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.63 | 0.63 | 0.8% |

**Table 99. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**Pacific**

1/ Includes a 2 cent average local tax.
N/A = Not applicable.
Sources: 2001 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2001 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, http://www.fhwa.dot.gov/ohim/mmfr/mmfrpage.htm, March 2001. 2001 jet fuel taxes: EIA, Office of Oil and Gas. 2001 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 100. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**United States**

| Product Price Components | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | |
| End-User Price | 1.52 | 1.39 | 1.29 | 1.38 | 1.33 | 1.30 | 1.33 | 1.40 | 1.38 | 1.40 | 1.42 | 1.43 | 1.41 |
| Federal Taxes | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 | 0.19 |
| State Taxes | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Distribution Costs | 0.14 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.16 | 0.17 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| Wholesale Price | 0.93 | 0.79 | 0.70 | 0.79 | 0.75 | 0.72 | 0.74 | 0.81 | 0.80 | 0.83 | 0.85 | 0.87 | 0.86 |
| Motor Gasoline | | | | | | | | | | | | | |
| End-User Price | 1.54 | 1.43 | 1.36 | 1.43 | 1.41 | 1.40 | 1.41 | 1.41 | 1.41 | 1.42 | 1.43 | 1.41 | 1.41 |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.15 | 0.15 |
| State Taxes 1/ | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| Distribution Costs | 0.13 | 0.13 | 0.14 | 0.14 | 0.19 | 0.20 | 0.15 | 0.15 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 |
| Wholesale Price | 0.99 | 0.89 | 0.81 | 0.89 | 0.82 | 0.81 | 0.87 | 0.88 | 0.89 | 0.90 | 0.90 | 0.89 | 0.90 |
| Jet Fuel | | | | | | | | | | | | | |
| End-User Price | 0.98 | 0.84 | 0.80 | 0.85 | 0.78 | 0.76 | 0.74 | 0.75 | 0.75 | 0.76 | 0.76 | 0.78 | 0.78 |
| Federal Taxes | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.03 |
| State Taxes | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Distribution Costs | 0.00 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 |
| Wholesale Price | 0.92 | 0.78 | 0.74 | 0.80 | 0.73 | 0.71 | 0.69 | 0.70 | 0.71 | 0.71 | 0.71 | 0.73 | 0.73 |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | |
| End-User Price | 1.34 | 1.25 | 1.13 | 1.26 | 1.17 | 1.09 | 1.08 | 1.08 | 1.09 | 1.09 | 1.10 | 1.12 | 1.13 |
| Distribution Costs | 0.42 | 0.48 | 0.42 | 0.42 | 0.47 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 |
| Wholesale Price | 0.92 | 0.76 | 0.71 | 0.84 | 0.70 | 0.67 | 0.66 | 0.66 | 0.67 | 0.68 | 0.69 | 0.70 | 0.71 |
| World Oil Price | 0.67 | 0.52 | 0.56 | 0.61 | 0.57 | 0.55 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 |

**Table 100. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**United States**

| Product Price Components | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel | | | | | | | | | | | | | | |
| End-User Price | 1.40 | 1.39 | 1.40 | 1.40 | 1.41 | 1.42 | 1.41 | 1.41 | 1.43 | 1.44 | 1.45 | 1.45 | 1.46 | 0.2% |
| Federal Taxes | 0.19 | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.15 | 0.15 | 0.14 | 0.14 | 0.13 | -2.4% |
| State Taxes | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | N/A |
| Distribution Costs | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.1% |
| Wholesale Price | 0.85 | 0.84 | 0.86 | 0.87 | 0.88 | 0.89 | 0.89 | 0.89 | 0.91 | 0.93 | 0.95 | 0.95 | 0.96 | 0.8% |
| Motor Gasoline | | | | | | | | | | | | | | |
| End-User Price | 1.40 | 1.41 | 1.40 | 1.41 | 1.43 | 1.43 | 1.44 | 1.44 | 1.44 | 1.44 | 1.45 | 1.46 | 1.50 | 0.2% |
| Federal Taxes | 0.14 | 0.14 | 0.14 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | -2.4% |
| State Taxes 1/ | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.0% |
| Distribution Costs | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.3% |
| Wholesale Price | 0.89 | 0.90 | 0.90 | 0.91 | 0.93 | 0.94 | 0.95 | 0.95 | 0.95 | 0.96 | 0.98 | 0.99 | 1.02 | 0.6% |
| Jet Fuel | | | | | | | | | | | | | | |
| End-User Price | 0.79 | 0.80 | 0.81 | 0.82 | 0.83 | 0.84 | 0.85 | 0.85 | 0.87 | 0.89 | 0.90 | 0.90 | 0.91 | 0.3% |
| Federal Taxes | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | -2.4% |
| State Taxes | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | N/A |
| Distribution Costs | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 | 0.2% |
| Wholesale Price | 0.75 | 0.76 | 0.77 | 0.78 | 0.79 | 0.80 | 0.81 | 0.82 | 0.83 | 0.85 | 0.86 | 0.86 | 0.87 | 0.5% |
| Residential Distillate Fuel/ Heating Oil | | | | | | | | | | | | | | |
| End-User Price | 1.14 | 1.16 | 1.16 | 1.17 | 1.16 | 1.18 | 1.20 | 1.21 | 1.22 | 1.22 | 1.23 | 1.23 | 1.24 | 0.0% |
| Distribution Costs | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | -0.6% |
| Wholesale Price | 0.73 | 0.75 | 0.75 | 0.76 | 0.77 | 0.78 | 0.81 | 0.81 | 0.83 | 0.84 | 0.85 | 0.85 | 0.86 | 0.5% |
| World Oil Price | 0.58 | 0.59 | 0.59 | 0.59 | 0.60 | 0.60 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.63 | 0.63 | 0.8% |

**Table 100. Components of Selected Petroleum Product Prices**
**(2001 Dollars per Gallon)**
**United States**

1/ Includes a 2 cent average local tax.
N/A = Not applicable.
Sources: 2001 distribution costs and wholesale prices: estimated based on Energy Information Administration (EIA) Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report" and EIA-782B, "Resellers'/Retailers' Monthly Petroleum Product Sales Report." 2001 diesel and gasoline taxes: Federal Highway Administration, Table MF-121T, http://www.fhwa.dot.gov/ohim/mmfr/mmfrpage.htm, March 2001. 2001 jet fuel taxes: EIA, Office of Oil and Gas. 2001 end-user prices: estimated as the sum of the components. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 101. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Production 1/ | | | | | | | | | | | | | |
| (million barrels per day) | | | | | | | | | | | | | |
| Lower 48 Total | 4.89 | 4.84 | 4.89 | 4.80 | 4.73 | 4.71 | 5.20 | 5.29 | 5.23 | 5.14 | 4.98 | 4.85 | 4.72 |
| Lower 48 Onshore | | | | | | | | | | | | | |
| Northeast | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 |
| Gulf Coast | 0.63 | 0.61 | 0.60 | 0.57 | 0.52 | 0.49 | 0.45 | 0.42 | 0.38 | 0.36 | 0.33 | 0.30 | 0.28 |
| Midcontinent | 0.35 | 0.33 | 0.33 | 0.31 | 0.30 | 0.29 | 0.28 | 0.28 | 0.27 | 0.27 | 0.26 | 0.26 | 0.25 |
| Southwest | 1.10 | 1.06 | 1.05 | 0.99 | 0.97 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 |
| Rocky Mountain | 0.40 | 0.38 | 0.38 | 0.36 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.34 |
| West Coast | 0.69 | 0.67 | 0.66 | 0.62 | 0.62 | 0.61 | 0.61 | 0.60 | 0.59 | 0.59 | 0.58 | 0.58 | 0.57 |
| Lower 48 Offshore | | | | | | | | | | | | | |
| Gulf | 1.47 | 1.57 | 1.67 | 1.77 | 1.77 | 1.82 | 2.36 | 2.53 | 2.52 | 2.48 | 2.38 | 2.30 | 2.22 |
| Pacific | 0.15 | 0.13 | 0.12 | 0.10 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.08 |
| Atlantic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wellhead Prices (2001 dollars per barrel) | | | | | | | | | | | | | |
| Lower 48 Average | 28.18 | 22.91 | 24.29 | 26.99 | 23.99 | 23.17 | 23.11 | 23.31 | 23.45 | 23.76 | 23.90 | 24.15 | 23.89 |
| Lower 48 Onshore | | | | | | | | | | | | | |
| Northeast | 28.45 | 23.15 | 24.53 | 27.24 | 24.09 | 23.27 | 23.01 | 23.22 | 23.31 | 23.71 | 23.82 | 24.08 | 23.74 |
| Gulf Coast | 29.20 | 23.71 | 25.14 | 27.90 | 23.96 | 23.09 | 22.83 | 23.01 | 23.13 | 23.46 | 23.59 | 23.83 | 23.57 |
| Midcontinent | 29.31 | 24.09 | 25.53 | 28.34 | 23.87 | 23.07 | 22.88 | 23.08 | 23.18 | 23.55 | 23.67 | 23.93 | 23.63 |
| Southwest | 29.28 | 23.47 | 24.87 | 27.60 | 23.51 | 22.73 | 22.67 | 22.86 | 22.96 | 23.29 | 23.42 | 23.71 | 23.45 |
| Rocky Mountain | 28.38 | 22.89 | 24.26 | 26.94 | 24.00 | 23.14 | 22.86 | 23.05 | 23.17 | 23.52 | 23.65 | 23.90 | 23.64 |
| West Coast | 25.39 | 20.11 | 21.31 | 23.67 | 22.67 | 21.92 | 22.24 | 22.35 | 22.54 | 22.64 | 22.90 | 23.13 | 23.00 |
| Lower 48 Offshore | | | | | | | | | | | | | |
| Gulf | 28.27 | 23.33 | 24.71 | 27.45 | 24.92 | 24.01 | 23.74 | 23.93 | 24.06 | 24.40 | 24.54 | 24.78 | 24.51 |
| Pacific | 24.39 | 20.68 | 21.91 | 24.33 | 21.08 | 20.39 | 20.69 | 20.79 | 20.96 | 21.06 | 21.30 | 21.51 | 21.39 |
| Atlantic | 28.27 | 23.33 | 24.71 | 27.45 | 24.09 | 23.27 | 23.01 | 23.22 | 23.31 | 23.71 | 23.82 | 24.08 | 23.74 |

**Table 101. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Production 1/ | | | | | | | | | | | | | | |
| (million barrels per day) | | | | | | | | | | | | | | |
| Lower 48 Total | 4.56 | 4.44 | 4.37 | 4.29 | 4.23 | 4.21 | 4.26 | 4.23 | 4.17 | 4.23 | 4.20 | 4.17 | 4.16 | -0.6% |
| Lower 48 Onshore | | | | | | | | | | | | | | |
| Northeast | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | -1.8% |
| Gulf Coast | 0.26 | 0.24 | 0.23 | 0.21 | 0.20 | 0.18 | 0.17 | 0.16 | 0.15 | 0.14 | 0.13 | 0.13 | 0.12 | -6.5% |
| Midcontinent | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 | 0.22 | 0.22 | 0.22 | 0.21 | 0.21 | 0.21 | 0.20 | -2.0% |
| Southwest | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.78 | 0.77 | -1.3% |
| Rocky Mountain | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.33 | 0.33 | 0.33 | 0.33 | -0.6% |
| West Coast | 0.56 | 0.56 | 0.55 | 0.55 | 0.54 | 0.53 | 0.53 | 0.52 | 0.52 | 0.51 | 0.51 | 0.50 | 0.50 | -1.2% |
| Lower 48 Offshore | | | | | | | | | | | | | | |
| Gulf | 2.11 | 2.03 | 2.00 | 1.96 | 1.94 | 1.96 | 2.04 | 2.05 | 2.02 | 2.11 | 2.11 | 2.11 | 2.12 | 1.3% |
| Pacific | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | -3.2% |
| Atlantic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wellhead Prices (2001 dollars per barrel) | | | | | | | | | | | | | | |
| Lower 48 Average | 24.03 | 24.11 | 24.13 | 24.28 | 24.46 | 24.61 | 24.70 | 24.89 | 25.12 | 25.34 | 25.57 | 25.81 | 26.12 | 0.5% |
| Lower 48 Onshore | | | | | | | | | | | | | | |
| Northeast | 23.89 | 23.99 | 23.97 | 24.14 | 24.35 | 24.50 | 24.51 | 24.73 | 24.90 | 25.09 | 25.29 | 25.54 | 25.84 | 0.5% |
| Gulf Coast | 23.74 | 23.85 | 23.89 | 24.06 | 24.26 | 24.38 | 24.46 | 24.65 | 24.84 | 25.03 | 25.26 | 25.50 | 25.79 | 0.4% |
| Midcontinent | 23.78 | 23.89 | 23.89 | 24.05 | 24.25 | 24.40 | 24.43 | 24.64 | 24.82 | 25.01 | 25.21 | 25.46 | 25.75 | 0.3% |
| Southwest | 23.61 | 23.72 | 23.75 | 23.91 | 24.09 | 24.24 | 24.30 | 24.50 | 24.69 | 24.88 | 25.09 | 25.32 | 25.60 | 0.4% |
| Rocky Mountain | 23.80 | 23.90 | 23.94 | 24.11 | 24.31 | 24.43 | 24.50 | 24.70 | 24.88 | 25.06 | 25.29 | 25.54 | 25.83 | 0.5% |
| West Coast | 23.03 | 22.93 | 22.88 | 22.90 | 22.98 | 23.14 | 23.20 | 23.34 | 23.75 | 24.05 | 24.24 | 24.40 | 24.79 | 0.9% |
| Lower 48 Offshore | | | | | | | | | | | | | | |
| Gulf | 24.69 | 24.80 | 24.85 | 25.03 | 25.23 | 25.36 | 25.44 | 25.64 | 25.83 | 26.03 | 26.27 | 26.52 | 26.82 | 0.6% |
| Pacific | 21.42 | 21.32 | 21.28 | 21.29 | 21.37 | 21.52 | 21.57 | 21.70 | 22.09 | 22.37 | 22.54 | 22.69 | 23.05 | 0.5% |
| Atlantic | 23.89 | 23.99 | 23.97 | 24.14 | 24.35 | 24.50 | 24.51 | 24.73 | 24.90 | 25.09 | 25.29 | 25.54 | 25.84 | 0.4% |

**Table 101. Lower 48 Crude Oil Production and Wellhead Prices by Supply Region**

1/ Includes lease condensate.
N/A = Not applicable.
Note: Supply regions are defined in "Documentation of the Oil and Gas Supply Module," Energy Information Administration (EIA), DOE/EIA-MO63(2001) (Washington, DC, March 2002). Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 may differ slightly from official EIA data reports due to internal conversion factors within the AEO2003 National Energy Modeling System.
Sources: 2000: Energy Information Administration (EIA), Petroleum Supply Annual 2000, DOE/EIA-0340(2000)/1 (Washington, DC, June 2001); EIA, Petroleum Marketing Annual 2000, http://www.eia.doe.gov/oil_gas/petroleum/data_publications/petroleum_marketing_annual/pma_historical.html (August 2001); and EIA, Office of Integrated Analysis and Forecasting (OIAF). 2001: EIA, Petroleum Supply Annual 2001, DOE/EIA-0340(2001)/1 (Washington, DC, June 2002) and EIA, OIAF. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 102. Lower Natural Gas Production and Wellhead Prices by Supply Region**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dry Production (trillion cubic feet) 1/ | | | | | | | | | | | | | |
| Lower 48 Total | 18.57 | 19.02 | 18.98 | 19.58 | 19.72 | 19.69 | 19.98 | 20.06 | 20.63 | 20.99 | 21.40 | 21.91 | 22.42 |
| Lower 48 Onshore | | | | | | | | | | | | | |
| Northeast | 1.02 | 1.02 | 1.06 | 1.09 | 1.07 | 1.07 | 1.08 | 1.10 | 1.13 | 1.16 | 1.19 | 1.22 | 1.26 |
| Gulf Coast | 4.84 | 4.97 | 4.57 | 4.89 | 5.03 | 4.92 | 4.77 | 4.74 | 4.86 | 4.98 | 5.11 | 5.20 | 5.23 |
| Midcontinent | 2.53 | 2.55 | 2.47 | 2.67 | 2.76 | 2.86 | 2.94 | 3.05 | 3.34 | 3.46 | 3.51 | 3.53 | 3.59 |
| Southwest | 1.52 | 1.50 | 1.48 | 1.59 | 1.59 | 1.62 | 1.63 | 1.66 | 1.72 | 1.74 | 1.77 | 1.79 | 1.82 |
| Rocky Mountain | 3.23 | 3.37 | 3.60 | 3.94 | 4.10 | 4.14 | 4.18 | 4.15 | 4.26 | 4.32 | 4.48 | 4.66 | 4.95 |
| West Coast | 0.31 | 0.31 | 0.27 | 0.24 | 0.24 | 0.24 | 0.24 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| Lower 48 Offshore | | | | | | | | | | | | | |
| Gulf | 5.05 | 5.24 | 5.47 | 5.11 | 4.87 | 4.80 | 5.09 | 5.08 | 5.04 | 5.07 | 5.08 | 5.23 | 5.32 |
| Pacific | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 | 0.03 | 0.03 |
| Atlantic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wellhead Prices (2001 dollars per thousand cubic feet) | | | | | | | | | | | | | |
| Lower 48 Average | 3.83 | 4.12 | 2.75 | 3.13 | 2.92 | 2.88 | 2.82 | 2.91 | 3.03 | 3.15 | 3.29 | 3.36 | 3.43 |
| Lower 48 Onshore | | | | | | | | | | | | | |
| Northeast | 3.80 | 4.10 | 3.10 | 3.62 | 3.54 | 3.31 | 3.23 | 3.27 | 3.38 | 3.47 | 3.59 | 3.73 | 3.80 |
| Gulf Coast | 4.29 | 4.62 | 3.00 | 3.18 | 2.86 | 2.94 | 2.94 | 2.94 | 3.03 | 3.12 | 3.27 | 3.46 | 3.60 |
| Midcontinent | 3.81 | 4.12 | 2.92 | 3.16 | 2.89 | 2.80 | 2.79 | 2.85 | 2.82 | 3.08 | 3.30 | 3.45 | 3.54 |
| Southwest | 3.99 | 4.31 | 2.71 | 2.88 | 2.90 | 2.83 | 2.84 | 2.87 | 3.05 | 3.22 | 3.38 | 3.48 | 3.58 |
| Rocky Mountain | 3.52 | 3.79 | 2.37 | 2.60 | 2.65 | 2.73 | 2.73 | 2.78 | 3.02 | 3.09 | 3.12 | 3.10 | 3.03 |
| West Coast | 5.03 | 5.41 | 3.19 | 2.89 | 2.81 | 3.05 | 3.31 | 3.43 | 3.69 | 3.81 | 3.82 | 3.78 | 3.72 |
| Lower 48 Offshore | | | | | | | | | | | | | |
| Gulf | 3.47 | 3.73 | 2.62 | 3.44 | 3.12 | 2.92 | 2.69 | 2.94 | 3.07 | 3.13 | 3.34 | 3.28 | 3.39 |
| Pacific | 4.36 | 4.69 | 3.39 | 3.20 | 3.03 | 3.20 | 3.37 | 3.49 | 3.87 | 4.18 | 4.41 | 4.36 | 4.23 |
| Atlantic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**Table 102. Lower Natural Gas Production and Wellhead Prices by Supply Region**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dry Production (trillion cubic feet) 1/ | | | | | | | | | | | | | | |
| Lower 48 Total | 22.72 | 23.06 | 23.32 | 23.37 | 23.40 | 23.83 | 24.18 | 24.53 | 24.04 | 23.68 | 23.83 | 24.18 | 24.12 | 1.0% |
| Lower 48 Onshore | | | | | | | | | | | | | | |
| Northeast | 1.30 | 1.31 | 1.32 | 1.33 | 1.32 | 1.31 | 1.30 | 1.30 | 1.28 | 1.24 | 1.23 | 1.22 | 1.21 | 0.7% |
| Gulf Coast | 5.22 | 5.25 | 5.31 | 5.38 | 5.46 | 5.50 | 5.55 | 5.65 | 5.56 | 5.52 | 5.54 | 5.48 | 5.35 | 0.3% |
| Midcontinent | 3.65 | 3.68 | 3.71 | 3.72 | 3.69 | 3.66 | 3.64 | 3.64 | 3.53 | 3.46 | 3.47 | 3.42 | 3.35 | 1.1% |
| Southwest | 1.84 | 1.88 | 1.93 | 1.99 | 2.02 | 2.05 | 2.10 | 2.16 | 2.17 | 2.18 | 2.23 | 2.24 | 2.27 | 1.7% |
| Rocky Mountain | 5.21 | 5.35 | 5.43 | 5.43 | 5.49 | 5.75 | 5.92 | 6.18 | 5.98 | 5.82 | 6.07 | 6.17 | 6.06 | 2.5% |
| West Coast | 0.23 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.23 | 0.22 | 0.21 | 0.20 | 0.20 | 0.20 | 0.19 | -1.9% |
| Lower 48 Offshore | | | | | | | | | | | | | | |
| Gulf | 5.25 | 5.33 | 5.35 | 5.27 | 5.16 | 5.30 | 5.41 | 5.38 | 5.31 | 5.24 | 5.08 | 5.44 | 5.68 | 0.3% |
| Pacific | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | -7.8% |
| Atlantic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Wellhead Prices (2001 dollars per thousand cubic feet) | | | | | | | | | | | | | | |
| Lower 48 Average | 3.47 | 3.52 | 3.55 | 3.59 | 3.61 | 3.57 | 3.58 | 3.69 | 3.69 | 3.75 | 3.82 | 3.87 | 3.90 | -0.2% |
| Lower 48 Onshore | | | | | | | | | | | | | | |
| Northeast | 3.85 | 3.93 | 3.98 | 4.04 | 4.08 | 4.08 | 4.11 | 4.23 | 4.35 | 4.33 | 4.36 | 4.43 | 4.47 | 0.4% |
| Gulf Coast | 3.66 | 3.66 | 3.63 | 3.63 | 3.63 | 3.64 | 3.69 | 3.81 | 3.87 | 3.88 | 3.95 | 4.06 | 4.13 | -0.5% |
| Midcontinent | 3.60 | 3.61 | 3.63 | 3.67 | 3.66 | 3.65 | 3.70 | 3.84 | 3.86 | 3.82 | 3.89 | 3.96 | 4.02 | -0.1% |
| Southwest | 3.59 | 3.55 | 3.56 | 3.57 | 3.58 | 3.57 | 3.60 | 3.73 | 3.74 | 3.71 | 3.79 | 3.88 | 4.00 | -0.3% |
| Rocky Mountain | 2.94 | 3.18 | 3.28 | 3.32 | 3.31 | 3.27 | 3.23 | 3.28 | 3.11 | 3.21 | 3.32 | 3.59 | 3.77 | 0.0% |
| West Coast | 3.59 | 3.59 | 3.69 | 3.71 | 3.84 | 3.99 | 4.09 | 4.19 | 3.82 | 3.60 | 3.80 | 4.19 | 4.57 | -0.7% |
| Lower 48 Offshore | | | | | | | | | | | | | | |
| Gulf | 3.56 | 3.55 | 3.57 | 3.67 | 3.76 | 3.62 | 3.59 | 3.76 | 3.87 | 4.07 | 4.11 | 3.79 | 3.59 | -0.2% |
| Pacific | 4.03 | 4.08 | 4.20 | 4.14 | 4.23 | 4.37 | 4.31 | 4.35 | 3.84 | 3.60 | 3.78 | 4.23 | 4.55 | -0.1% |
| Atlantic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |

**Table 102. Lower Natural Gas Production and Wellhead Prices by Supply Region**

1/ Marketed production (wet) minus extraction losses.
N/A = Not applicable.
Note: Supply regions are defined in "Documentation of the Oil and Gas Supply Module," Energy Information Administration, DOE/EIA-MO63(2001) (Washington, DC, March 2002). Totals may not equal sum of components due to independent rounding.
Source: 2000: Mineral Management Service, and Energy Information Administration (EIA), Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001); EIA, U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, Annual Report 2000, DOE/EIA-0216(2000) (Washington, DC, December 2001); and EIA, Office of Integrated Analysis and Forecasting (OIAF). 2001: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002) and EIA, OIAF. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 103. Oil and Gas End-of-Year Reserves and Annual Reserve Additions**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lower 48 Reserves | | | | | | | | | | | | | |
| Crude Oil (billion barrels) 1/ | 18.66 | 19.48 | 19.22 | 19.14 | 18.79 | 19.03 | 19.14 | 18.89 | 18.57 | 18.14 | 17.79 | 17.46 | 17.02 |
| Onshore | 13.99 | 13.88 | 13.67 | 13.54 | 13.23 | 12.96 | 12.74 | 12.53 | 12.33 | 12.14 | 11.97 | 11.80 | 11.62 |
| Offshore | 4.67 | 5.61 | 5.55 | 5.60 | 5.57 | 6.07 | 6.40 | 6.37 | 6.24 | 5.99 | 5.82 | 5.66 | 5.40 |
| Dry Natural Gas (trillion cubic feet) | 168.2 | 174.0 | 173.2 | 174.4 | 174.7 | 175.9 | 175.9 | 176.4 | 176.7 | 177.0 | 178.4 | 180.1 | 181.8 |
| Onshore | 137.4 | 141.8 | 142.1 | 143.5 | 144.2 | 144.5 | 144.7 | 145.5 | 146.1 | 146.8 | 147.7 | 149.1 | 151.1 |
| Associated-Dissolved 2/ | 14.6 | 14.3 | 14.1 | 14.0 | 13.9 | 13.8 | 13.7 | 13.6 | 13.5 | 13.4 | 13.3 | 13.3 | 13.2 |
| Non-Associated | 122.8 | 127.5 | 128.0 | 129.5 | 130.3 | 130.7 | 131.0 | 132.0 | 132.6 | 133.4 | 134.3 | 135.8 | 137.8 |
| Conventional | 58.4 | 58.6 | 58.6 | 59.4 | 60.2 | 60.8 | 61.3 | 62.7 | 63.3 | 63.6 | 63.7 | 63.8 | 63.8 |
| Unconventional | 64.4 | 68.9 | 69.5 | 70.1 | 70.1 | 69.9 | 69.7 | 69.3 | 69.3 | 69.8 | 70.6 | 72.0 | 74.0 |
| Offshore | 30.8 | 32.3 | 31.0 | 30.9 | 30.5 | 31.4 | 31.3 | 30.9 | 30.6 | 30.2 | 30.7 | 31.0 | 30.7 |
| Associated-Dissolved 2/ | 7.0 | 7.4 | 7.0 | 6.8 | 6.6 | 7.0 | 7.2 | 7.0 | 6.8 | 6.5 | 6.5 | 6.4 | 6.2 |
| Non-Associated | 23.7 | 24.9 | 24.1 | 24.1 | 23.9 | 24.4 | 24.1 | 23.9 | 23.8 | 23.7 | 24.2 | 24.6 | 24.5 |
| Lower 48 Reserve Additions | | | | | | | | | | | | | |
| Crude Oil (billion barrels) 1/ | 2.17 | 2.59 | 1.52 | 1.67 | 1.38 | 1.96 | 2.00 | 1.69 | 1.58 | 1.44 | 1.47 | 1.45 | 1.28 |
| Onshore | 1.10 | 1.03 | 0.92 | 0.94 | 0.73 | 0.76 | 0.77 | 0.76 | 0.75 | 0.75 | 0.74 | 0.73 | 0.70 |
| Offshore | 1.07 | 1.56 | 0.59 | 0.74 | 0.65 | 1.20 | 1.24 | 0.92 | 0.83 | 0.69 | 0.73 | 0.71 | 0.58 |
| Dry Natural Gas (trillion cubic feet) | 29.1 | 24.9 | 18.1 | 20.8 | 20.0 | 20.9 | 20.0 | 20.6 | 20.9 | 21.3 | 22.8 | 23.6 | 24.1 |
| Onshore | 23.2 | 18.1 | 13.8 | 15.8 | 15.5 | 15.2 | 15.0 | 15.8 | 16.1 | 16.6 | 17.2 | 18.1 | 19.0 |
| Associated-Dissolved 2/ | 0.8 | 1.4 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Non-Associated | 22.5 | 16.7 | 12.3 | 14.3 | 14.1 | 13.8 | 13.6 | 14.5 | 14.8 | 15.3 | 15.9 | 16.8 | 17.7 |
| Conventional | 6.5 | 6.8 | 6.1 | 7.6 | 7.8 | 7.6 | 7.6 | 8.5 | 8.2 | 8.1 | 8.1 | 8.2 | 8.2 |
| Unconventional | 15.9 | 9.8 | 6.2 | 6.7 | 6.3 | 6.2 | 6.1 | 5.9 | 6.6 | 7.1 | 7.7 | 8.6 | 9.6 |
| Offshore | 5.8 | 6.8 | 4.3 | 5.0 | 4.5 | 5.8 | 5.0 | 4.8 | 4.8 | 4.7 | 5.6 | 5.5 | 5.1 |
| Associated-Dissolved 2/ | 1.0 | 1.4 | 0.7 | 0.7 | 0.6 | 1.3 | 1.0 | 0.7 | 0.6 | 0.5 | 0.7 | 0.7 | 0.6 |
| Non-Associated | 4.9 | 5.4 | 3.6 | 4.3 | 3.9 | 4.5 | 3.9 | 4.0 | 4.2 | 4.2 | 4.9 | 4.8 | 4.5 |

**Table 103. Oil and Gas End-of-Year Reserves and Annual Reserve Additions**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lower 48 Reserves | | | | | | | | | | | | | | |
| Crude Oil (billion barrels) 1/ | 16.70 | 16.46 | 16.23 | 16.03 | 15.92 | 15.99 | 15.85 | 15.64 | 15.68 | 15.55 | 15.46 | 15.37 | 15.31 | -1.0% |
| Onshore | 11.46 | 11.30 | 11.15 | 11.00 | 10.86 | 10.72 | 10.58 | 10.45 | 10.32 | 10.20 | 10.08 | 9.96 | 9.85 | -1.4% |
| Offshore | 5.24 | 5.16 | 5.09 | 5.03 | 5.06 | 5.27 | 5.27 | 5.19 | 5.35 | 5.35 | 5.38 | 5.41 | 5.46 | -0.1% |
| Dry Natural Gas (trillion cubic feet) | 183.4 | 185.3 | 186.6 | 187.6 | 189.6 | 191.6 | 192.9 | 193.4 | 193.0 | 192.3 | 192.0 | 191.6 | 189.9 | 0.4% |
| Onshore | 152.6 | 154.4 | 156.0 | 157.4 | 159.1 | 160.6 | 161.9 | 162.7 | 162.7 | 162.8 | 162.3 | 161.4 | 160.7 | 0.5% |
| Associated-Dissolved 2/ | 13.2 | 13.2 | 13.1 | 13.1 | 13.1 | 13.0 | 13.0 | 13.0 | 12.9 | 12.9 | 12.9 | 12.8 | 12.8 | -0.4% |
| Non-Associated | 139.4 | 141.2 | 142.8 | 144.3 | 146.0 | 147.5 | 148.9 | 149.7 | 149.7 | 149.9 | 149.4 | 148.5 | 147.9 | 0.6% |
| Conventional | 63.8 | 63.8 | 63.8 | 63.6 | 63.3 | 62.9 | 62.4 | 61.8 | 61.3 | 60.9 | 60.3 | 59.5 | 58.6 | 0.0% |
| Unconventional | 75.6 | 77.4 | 79.1 | 80.7 | 82.7 | 84.6 | 86.5 | 87.9 | 88.4 | 89.0 | 89.2 | 89.0 | 89.3 | 1.1% |
| Offshore | 30.8 | 30.9 | 30.6 | 30.2 | 30.5 | 31.1 | 31.0 | 30.7 | 30.4 | 29.5 | 29.7 | 30.2 | 29.1 | -0.4% |
| Associated-Dissolved 2/ | 6.1 | 6.0 | 6.0 | 5.9 | 6.0 | 6.2 | 6.2 | 6.1 | 6.3 | 6.4 | 6.3 | 6.3 | 6.2 | -0.7% |
| Non-Associated | 24.7 | 24.8 | 24.6 | 24.2 | 24.6 | 24.9 | 24.8 | 24.6 | 24.1 | 23.1 | 23.3 | 23.9 | 22.9 | -0.3% |
| Lower 48 Reserve Additions | | | | | | | | | | | | | | |
| Crude Oil (billion barrels) 1/ | 1.34 | 1.39 | 1.36 | 1.36 | 1.44 | 1.60 | 1.42 | 1.33 | 1.56 | 1.42 | 1.44 | 1.44 | 1.45 | -2.4% |
| Onshore | 0.70 | 0.69 | 0.68 | 0.68 | 0.67 | 0.66 | 0.65 | 0.64 | 0.64 | 0.63 | 0.62 | 0.61 | 0.61 | -2.2% |
| Offshore | 0.64 | 0.69 | 0.68 | 0.68 | 0.77 | 0.94 | 0.77 | 0.69 | 0.92 | 0.79 | 0.82 | 0.83 | 0.84 | -2.5% |
| Dry Natural Gas (trillion cubic feet) | 24.4 | 24.9 | 24.6 | 24.4 | 25.4 | 25.8 | 25.4 | 25.1 | 23.7 | 22.9 | 23.6 | 23.7 | 22.4 | -0.4% |
| Onshore | 19.0 | 19.5 | 19.5 | 19.5 | 19.9 | 20.0 | 20.1 | 19.9 | 18.7 | 18.6 | 18.2 | 17.8 | 17.8 | -0.1% |
| Associated-Dissolved 2/ | 1.3 | 1.3 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | -1.0% |
| Non-Associated | 17.7 | 18.2 | 18.3 | 18.3 | 18.7 | 18.8 | 18.9 | 18.7 | 17.5 | 17.4 | 17.1 | 16.7 | 16.7 | 0.0% |
| Conventional | 8.2 | 8.2 | 8.2 | 8.0 | 7.9 | 7.8 | 7.7 | 7.6 | 7.6 | 7.5 | 7.3 | 7.1 | 6.9 | 0.0% |
| Unconventional | 9.5 | 10.0 | 10.1 | 10.3 | 10.7 | 11.0 | 11.2 | 11.1 | 9.9 | 9.9 | 9.8 | 9.5 | 9.8 | 0.0% |
| Offshore | 5.4 | 5.4 | 5.1 | 4.8 | 5.5 | 5.8 | 5.3 | 5.1 | 5.0 | 4.3 | 5.3 | 6.0 | 4.6 | -1.6% |
| Associated-Dissolved 2/ | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 | 0.9 | 0.8 | 0.7 | 0.9 | 0.9 | 0.8 | 0.8 | 0.8 | -2.3% |
| Non-Associated | 4.8 | 4.7 | 4.4 | 4.2 | 4.8 | 4.9 | 4.5 | 4.4 | 4.0 | 3.5 | 4.5 | 5.2 | 3.8 | -1.4% |

**Table 103. Oil and Gas End-of-Year Reserves and Annual Reserve Additions**

1/ Includes lease condensate.
2/ Gas which occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved).
Note: Totals may not equal sum of components due to independent rounding.
Source: 2000: Energy Information Administration (EIA), U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, Annual Report 2000, EIA/DOE-0216(2000) (Washington, DC, December 2001) and EIA, Office of Integrated Analysis and Forecasting (OIAF). 2001: EIA, OIAF. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 104. Natural Gas Imports and Exports**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volumes (trillion cubic feet) | | | | | | | | | | | | | |
| Total Net Imports | 3.54 | 3.65 | 3.17 | 3.32 | 3.67 | 3.86 | 3.98 | 4.17 | 4.41 | 4.62 | 4.78 | 4.88 | 5.01 |
| Pipeline | | | | | | | | | | | | | |
| Imports from Canada | 3.54 | 3.76 | 3.47 | 3.56 | 3.65 | 3.73 | 3.75 | 3.84 | 4.01 | 4.16 | 4.31 | 4.40 | 4.51 |
| Exports to Canada | 0.07 | 0.16 | 0.17 | 0.17 | 0.19 | 0.22 | 0.23 | 0.24 | 0.25 | 0.26 | 0.26 | 0.26 | 0.26 |
| Imports from Mexico | 0.01 | 0.01 | 0.01 | 0.01 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| Exports to Mexico | 0.11 | 0.14 | 0.27 | 0.28 | 0.31 | 0.31 | 0.31 | 0.31 | 0.31 | 0.30 | 0.30 | 0.29 | 0.27 |
| Liquefied Natural Gas | | | | | | | | | | | | | |
| Imports | 0.23 | 0.24 | 0.20 | 0.27 | 0.56 | 0.68 | 0.80 | 0.91 | 0.99 | 1.04 | 1.06 | 1.06 | 1.06 |
| Exports | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| Border Prices (2001 dollars per thousand cubic feet) | | | | | | | | | | | | | |
| Average Import Price | 4.04 | 4.43 | 3.02 | 3.10 | 3.04 | 2.99 | 2.98 | 3.03 | 3.11 | 3.21 | 3.33 | 3.44 | 3.55 |
| Pipeline Import Prices | | | | | | | | | | | | | |
| From Canada | 4.07 | 4.43 | 3.02 | 3.08 | 3.04 | 3.00 | 3.00 | 3.04 | 3.12 | 3.21 | 3.32 | 3.43 | 3.55 |
| From Mexico | 5.56 | 5.00 | 3.15 | 3.33 | 3.05 | 3.05 | 3.05 | 3.07 | 3.14 | 3.30 | 3.48 | 3.66 | 3.79 |
| LNG Price (including regasification) | 3.64 | 4.35 | 2.99 | 3.31 | 3.06 | 2.97 | 2.89 | 2.98 | 3.07 | 3.20 | 3.38 | 3.48 | 3.59 |

**Table 104. Natural Gas Imports and Exports**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Volumes (trillion cubic feet) | | | | | | | | | | | | | | |
| Total Net Imports | 5.08 | 5.19 | 5.27 | 5.66 | 5.99 | 6.19 | 6.41 | 6.66 | 6.87 | 7.02 | 7.34 | 7.62 | 7.76 | 3.2% |
| Pipeline | | | | | | | | | | | | | | |
| Imports from Canada | 4.57 | 4.64 | 4.68 | 4.93 | 5.12 | 5.17 | 5.25 | 5.34 | 5.30 | 5.32 | 5.45 | 5.58 | 5.57 | 1.6% |
| Exports to Canada | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 2.0% |
| Imports from Mexico | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.10 | 0.16 | 0.22 | 0.20 | 0.25 | 0.30 | 0.35 | 15.9% |
| Exports to Mexico | 0.26 | 0.24 | 0.22 | 0.20 | 0.18 | 0.15 | 0.12 | 0.09 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | -4.5% |
| Liquefied Natural Gas | | | | | | | | | | | | | | |
| Imports | 1.06 | 1.08 | 1.10 | 1.21 | 1.33 | 1.45 | 1.51 | 1.57 | 1.72 | 1.87 | 2.02 | 2.11 | 2.20 | 9.7% |
| Exports | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | N/A |
| Border Prices (2001 dollars per thousand cubic feet) | | | | | | | | | | | | | | |
| Average Import Price | 3.65 | 3.73 | 3.77 | 3.80 | 3.73 | 3.74 | 3.76 | 3.81 | 3.78 | 3.82 | 3.92 | 4.05 | 4.19 | -0.2% |
| Pipeline Import Prices | | | | | | | | | | | | | | |
| From Canada | 3.65 | 3.73 | 3.79 | 3.80 | 3.71 | 3.72 | 3.75 | 3.78 | 3.71 | 3.73 | 3.83 | 4.01 | 4.21 | -0.2% |
| From Mexico | 3.85 | 3.84 | 3.82 | 3.83 | 3.83 | 3.82 | 4.01 | 4.15 | 3.86 | 3.64 | 3.89 | 4.21 | 4.44 | -0.5% |
| LNG Price (including regasification) | 3.68 | 3.70 | 3.70 | 3.77 | 3.80 | 3.77 | 3.80 | 3.93 | 4.00 | 4.07 | 4.15 | 4.16 | 4.16 | -0.2% |

**Table 104. Natural Gas Imports and Exports**

LNG = Liquefied natural gas.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 may differ slightly from official EIA data reports due to internal conversion factors within the AEO2003 National Energy Modeling System.
Sources: 2000 and 2001: Energy Information Administration (EIA), Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002) and EIA, Office of Integrated Analysis and Forecasting. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 105. Natural Gas Consumption by End-Use Sector and Census Division**
**(Trillion Cubic Feet per Year)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | | | | | | | | | | | | | |
| New England | 0.18 | 0.17 | 0.17 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 | 0.18 |
| Middle Atlantic | 0.85 | 0.81 | 0.81 | 0.86 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 | 0.87 |
| East North Central | 1.46 | 1.39 | 1.42 | 1.51 | 1.53 | 1.53 | 1.55 | 1.56 | 1.57 | 1.57 | 1.57 | 1.57 | 1.58 |
| West North Central | 0.45 | 0.43 | 0.44 | 0.47 | 0.47 | 0.47 | 0.48 | 0.48 | 0.48 | 0.48 | 0.49 | 0.49 | 0.49 |
| South Atlantic | 0.47 | 0.45 | 0.46 | 0.50 | 0.51 | 0.52 | 0.54 | 0.55 | 0.56 | 0.57 | 0.59 | 0.60 | 0.61 |
| East South Central | 0.20 | 0.19 | 0.19 | 0.20 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 0.21 | 0.21 | 0.20 | 0.20 |
| West South Central | 0.40 | 0.40 | 0.41 | 0.42 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.43 | 0.44 | 0.44 |
| Mountain | 0.33 | 0.34 | 0.35 | 0.37 | 0.39 | 0.40 | 0.41 | 0.42 | 0.42 | 0.43 | 0.44 | 0.45 | 0.46 |
| Pacific | 0.64 | 0.64 | 0.66 | 0.68 | 0.70 | 0.70 | 0.70 | 0.71 | 0.72 | 0.72 | 0.73 | 0.74 | 0.74 |
| Total | 4.98 | 4.81 | 4.91 | 5.18 | 5.27 | 5.30 | 5.36 | 5.41 | 5.46 | 5.47 | 5.50 | 5.54 | 5.59 |
| Commercial | | | | | | | | | | | | | |
| New England | 0.11 | 0.12 | 0.11 | 0.12 | 0.12 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.14 |
| Middle Atlantic | 0.44 | 0.43 | 0.42 | 0.44 | 0.45 | 0.45 | 0.46 | 0.46 | 0.47 | 0.47 | 0.47 | 0.47 | 0.48 |
| East North Central | 0.79 | 0.78 | 0.78 | 0.82 | 0.84 | 0.85 | 0.86 | 0.86 | 0.86 | 0.85 | 0.85 | 0.85 | 0.85 |
| West North Central | 0.33 | 0.33 | 0.33 | 0.35 | 0.36 | 0.36 | 0.36 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 |
| South Atlantic | 0.40 | 0.40 | 0.39 | 0.42 | 0.43 | 0.44 | 0.46 | 0.47 | 0.47 | 0.48 | 0.49 | 0.50 | 0.51 |
| East South Central | 0.26 | 0.26 | 0.26 | 0.27 | 0.28 | 0.28 | 0.29 | 0.29 | 0.30 | 0.30 | 0.30 | 0.31 | 0.31 |
| West South Central | 0.29 | 0.30 | 0.30 | 0.31 | 0.32 | 0.33 | 0.33 | 0.34 | 0.34 | 0.34 | 0.34 | 0.35 | 0.35 |
| Mountain | 0.23 | 0.24 | 0.24 | 0.25 | 0.26 | 0.27 | 0.27 | 0.27 | 0.28 | 0.29 | 0.29 | 0.30 | 0.31 |
| Pacific | 0.37 | 0.39 | 0.39 | 0.40 | 0.41 | 0.41 | 0.42 | 0.42 | 0.43 | 0.43 | 0.44 | 0.44 | 0.45 |
| Total | 3.21 | 3.24 | 3.23 | 3.38 | 3.47 | 3.52 | 3.57 | 3.61 | 3.64 | 3.67 | 3.69 | 3.73 | 3.76 |
| Industrial 1/ | | | | | | | | | | | | | |
| New England | 0.24 | 0.22 | 0.23 | 0.24 | 0.24 | 0.24 | 0.25 | 0.25 | 0.26 | 0.26 | 0.27 | 0.28 | 0.28 |
| Middle Atlantic | 0.70 | 0.62 | 0.66 | 0.68 | 0.73 | 0.73 | 0.75 | 0.77 | 0.78 | 0.80 | 0.82 | 0.83 | 0.83 |
| East North Central | 1.27 | 1.14 | 1.20 | 1.22 | 1.29 | 1.30 | 1.33 | 1.35 | 1.36 | 1.38 | 1.42 | 1.46 | 1.48 |
| West North Central | 0.39 | 0.35 | 0.37 | 0.37 | 0.40 | 0.40 | 0.41 | 0.41 | 0.42 | 0.43 | 0.44 | 0.45 | 0.45 |
| South Atlantic | 0.66 | 0.61 | 0.65 | 0.65 | 0.67 | 0.67 | 0.68 | 0.69 | 0.70 | 0.71 | 0.72 | 0.74 | 0.75 |
| East South Central | 0.51 | 0.47 | 0.50 | 0.50 | 0.51 | 0.51 | 0.52 | 0.53 | 0.53 | 0.54 | 0.56 | 0.57 | 0.58 |
| West South Central | 2.89 | 2.66 | 2.81 | 2.84 | 2.76 | 2.77 | 2.84 | 2.88 | 2.90 | 2.96 | 3.04 | 3.13 | 3.18 |
| Mountain | 0.27 | 0.25 | 0.27 | 0.28 | 0.28 | 0.28 | 0.28 | 0.29 | 0.29 | 0.30 | 0.30 | 0.31 | 0.32 |
| Pacific | 1.32 | 1.21 | 1.30 | 1.32 | 1.21 | 1.21 | 1.23 | 1.25 | 1.26 | 1.28 | 1.31 | 1.33 | 1.36 |
| Total | 8.25 | 7.53 | 8.00 | 8.10 | 8.08 | 8.13 | 8.29 | 8.42 | 8.50 | 8.66 | 8.88 | 9.09 | 9.23 |
| Electric Generators 2/ | | | | | | | | | | | | | |
| New England | 0.20 | 0.28 | 0.38 | 0.39 | 0.37 | 0.36 | 0.36 | 0.36 | 0.37 | 0.40 | 0.40 | 0.41 | 0.41 |
| Middle Atlantic | 0.53 | 0.53 | 0.46 | 0.50 | 0.53 | 0.55 | 0.55 | 0.58 | 0.63 | 0.66 | 0.68 | 0.72 | 0.75 |
| East North Central | 0.23 | 0.22 | 0.46 | 0.47 | 0.53 | 0.54 | 0.55 | 0.54 | 0.61 | 0.70 | 0.71 | 0.77 | 0.80 |
| West North Central | 0.09 | 0.08 | 0.09 | 0.09 | 0.08 | 0.06 | 0.07 | 0.05 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 |
| South Atlantic | 0.51 | 0.51 | 0.56 | 0.54 | 0.59 | 0.60 | 0.62 | 0.61 | 0.64 | 0.63 | 0.61 | 0.59 | 0.63 |
| East South Central | 0.15 | 0.22 | 0.30 | 0.37 | 0.39 | 0.33 | 0.34 | 0.37 | 0.46 | 0.56 | 0.67 | 0.79 | 0.85 |
| West South Central | 2.10 | 1.89 | 1.53 | 1.62 | 1.66 | 1.64 | 1.66 | 1.67 | 1.80 | 1.82 | 1.79 | 1.84 | 1.89 |
| Mountain | 0.34 | 0.41 | 0.41 | 0.51 | 0.52 | 0.51 | 0.48 | 0.39 | 0.43 | 0.41 | 0.42 | 0.40 | 0.43 |
| Pacific | 1.07 | 1.16 | 1.07 | 0.94 | 1.03 | 1.10 | 1.13 | 1.18 | 1.28 | 1.36 | 1.44 | 1.51 | 1.62 |
| Total | 5.23 | 5.30 | 5.27 | 5.44 | 5.71 | 5.69 | 5.76 | 5.76 | 6.31 | 6.60 | 6.80 | 7.10 | 7.46 |
| Transportation 3/ | | | | | | | | | | | | | |
| New England | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Middle Atlantic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| East North Central | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |

**Table 105. Natural Gas Consumption by End-Use Sector and Census Division**
**(Trillion Cubic Feet per Year)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| West North Central | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 |
| South Atlantic | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| East South Central | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 |
| West South Central | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Mountain | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 |
| Pacific | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Total | 0.01 | 0.01 | 0.01 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | 0.06 | 0.06 | 0.07 |
| | | | | | | | | | | | | | |
| All Sectors 4/ | | | | | | | | | | | | | |
| New England | 0.73 | 0.78 | 0.89 | 0.93 | 0.92 | 0.91 | 0.92 | 0.93 | 0.95 | 0.98 | 0.99 | 1.01 | 1.02 |
| Middle Atlantic | 2.52 | 2.38 | 2.35 | 2.48 | 2.58 | 2.61 | 2.63 | 2.69 | 2.76 | 2.81 | 2.85 | 2.90 | 2.93 |
| East North Central | 3.75 | 3.54 | 3.87 | 4.03 | 4.20 | 4.23 | 4.29 | 4.31 | 4.41 | 4.51 | 4.57 | 4.66 | 4.72 |
| West North Central | 1.26 | 1.20 | 1.23 | 1.28 | 1.31 | 1.30 | 1.32 | 1.32 | 1.34 | 1.36 | 1.37 | 1.39 | 1.40 |
| South Atlantic | 2.04 | 1.96 | 2.07 | 2.12 | 2.21 | 2.24 | 2.30 | 2.32 | 2.39 | 2.40 | 2.43 | 2.44 | 2.51 |
| East South Central | 1.13 | 1.14 | 1.25 | 1.35 | 1.38 | 1.33 | 1.36 | 1.40 | 1.50 | 1.61 | 1.74 | 1.87 | 1.94 |
| West South Central | 5.69 | 5.26 | 5.06 | 5.19 | 5.17 | 5.17 | 5.28 | 5.33 | 5.48 | 5.55 | 5.62 | 5.76 | 5.87 |
| Mountain | 1.18 | 1.24 | 1.28 | 1.41 | 1.45 | 1.45 | 1.44 | 1.37 | 1.43 | 1.43 | 1.46 | 1.47 | 1.52 |
| Pacific | 3.40 | 3.39 | 3.41 | 3.34 | 3.34 | 3.42 | 3.48 | 3.56 | 3.69 | 3.80 | 3.92 | 4.03 | 4.18 |
| Total | 21.68 | 20.89 | 21.42 | 22.12 | 22.56 | 22.67 | 23.02 | 23.24 | 23.95 | 24.45 | 24.94 | 25.52 | 26.11 |

**Table 105. Natural Gas Consumption by End-Use Sector and Census Division**
**(Trillion Cubic Feet per Year)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | | | | | | | | | | | | | | |
| New England | 0.18 | 0.18 | 0.18 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.6% |
| Middle Atlantic | 0.87 | 0.87 | 0.87 | 0.88 | 0.88 | 0.88 | 0.88 | 0.89 | 0.89 | 0.90 | 0.90 | 0.91 | 0.91 | 0.5% |
| East North Central | 1.58 | 1.59 | 1.60 | 1.61 | 1.61 | 1.62 | 1.64 | 1.65 | 1.66 | 1.67 | 1.68 | 1.70 | 1.70 | 0.8% |
| West North Central | 0.49 | 0.49 | 0.50 | 0.50 | 0.50 | 0.51 | 0.51 | 0.52 | 0.52 | 0.52 | 0.53 | 0.53 | 0.54 | 0.9% |
| South Atlantic | 0.62 | 0.63 | 0.64 | 0.65 | 0.66 | 0.67 | 0.68 | 0.70 | 0.71 | 0.72 | 0.73 | 0.74 | 0.75 | 2.2% |
| East South Central | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.21 | 0.20 | 0.20 | 0.20 | 0.21 | 0.21 | 0.4% |
| West South Central | 0.44 | 0.44 | 0.45 | 0.45 | 0.45 | 0.46 | 0.47 | 0.47 | 0.48 | 0.48 | 0.49 | 0.50 | 0.50 | 0.9% |
| Mountain | 0.47 | 0.48 | 0.49 | 0.50 | 0.51 | 0.52 | 0.53 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.58 | 2.3% |
| Pacific | 0.75 | 0.76 | 0.76 | 0.77 | 0.78 | 0.78 | 0.79 | 0.80 | 0.81 | 0.82 | 0.83 | 0.84 | 0.84 | 1.2% |
| Total | 5.62 | 5.65 | 5.69 | 5.75 | 5.78 | 5.83 | 5.89 | 5.96 | 6.00 | 6.06 | 6.12 | 6.19 | 6.22 | 1.1% |
| Commercial | | | | | | | | | | | | | | |
| New England | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.15 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 | 0.16 | 0.17 | 1.6% |
| Middle Atlantic | 0.48 | 0.48 | 0.48 | 0.49 | 0.49 | 0.49 | 0.49 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.7% |
| East North Central | 0.85 | 0.85 | 0.86 | 0.86 | 0.87 | 0.87 | 0.88 | 0.89 | 0.90 | 0.91 | 0.91 | 0.92 | 0.93 | 0.7% |
| West North Central | 0.37 | 0.38 | 0.38 | 0.38 | 0.39 | 0.39 | 0.39 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.7% |
| South Atlantic | 0.53 | 0.54 | 0.55 | 0.56 | 0.58 | 0.59 | 0.61 | 0.62 | 0.63 | 0.65 | 0.66 | 0.67 | 0.69 | 2.3% |
| East South Central | 0.31 | 0.32 | 0.32 | 0.33 | 0.33 | 0.33 | 0.34 | 0.34 | 0.34 | 0.35 | 0.35 | 0.35 | 0.35 | 1.3% |
| West South Central | 0.35 | 0.35 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.37 | 0.37 | 0.37 | 0.37 | 0.38 | 0.38 | 1.0% |
| Mountain | 0.32 | 0.32 | 0.33 | 0.33 | 0.34 | 0.35 | 0.36 | 0.37 | 0.38 | 0.39 | 0.40 | 0.40 | 0.41 | 2.3% |
| Pacific | 0.46 | 0.47 | 0.48 | 0.49 | 0.50 | 0.51 | 0.52 | 0.54 | 0.55 | 0.56 | 0.58 | 0.59 | 0.60 | 1.8% |
| Total | 3.81 | 3.85 | 3.89 | 3.94 | 3.99 | 4.05 | 4.11 | 4.17 | 4.23 | 4.28 | 4.34 | 4.38 | 4.43 | 1.3% |
| Industrial 1/ | | | | | | | | | | | | | | |
| New England | 0.29 | 0.29 | 0.29 | 0.30 | 0.30 | 0.31 | 0.32 | 0.32 | 0.33 | 0.33 | 0.34 | 0.35 | 0.36 | 2.1% |
| Middle Atlantic | 0.80 | 0.82 | 0.83 | 0.84 | 0.85 | 0.86 | 0.86 | 0.88 | 0.90 | 0.92 | 0.94 | 0.96 | 0.97 | 1.9% |
| East North Central | 1.50 | 1.51 | 1.52 | 1.53 | 1.55 | 1.57 | 1.59 | 1.61 | 1.63 | 1.66 | 1.68 | 1.70 | 1.72 | 1.7% |
| West North Central | 0.46 | 0.46 | 0.47 | 0.47 | 0.48 | 0.48 | 0.49 | 0.49 | 0.50 | 0.51 | 0.52 | 0.52 | 0.53 | 1.7% |
| South Atlantic | 0.76 | 0.77 | 0.77 | 0.78 | 0.79 | 0.80 | 0.82 | 0.83 | 0.84 | 0.85 | 0.86 | 0.88 | 0.89 | 1.6% |
| East South Central | 0.59 | 0.59 | 0.60 | 0.60 | 0.61 | 0.62 | 0.63 | 0.64 | 0.64 | 0.65 | 0.66 | 0.67 | 0.68 | 1.6% |
| West South Central | 3.22 | 3.25 | 3.29 | 3.31 | 3.34 | 3.38 | 3.43 | 3.47 | 3.52 | 3.57 | 3.62 | 3.67 | 3.72 | 1.4% |
| Mountain | 0.32 | 0.32 | 0.33 | 0.33 | 0.34 | 0.34 | 0.35 | 0.35 | 0.36 | 0.36 | 0.37 | 0.37 | 0.38 | 1.7% |
| Pacific | 1.37 | 1.39 | 1.41 | 1.42 | 1.44 | 1.47 | 1.49 | 1.52 | 1.54 | 1.57 | 1.60 | 1.63 | 1.65 | 1.3% |
| Total | 9.30 | 9.41 | 9.53 | 9.59 | 9.69 | 9.83 | 9.98 | 10.10 | 10.25 | 10.42 | 10.58 | 10.76 | 10.91 | 1.6% |
| Electric Generators 2/ | | | | | | | | | | | | | | |
| New England | 0.41 | 0.42 | 0.42 | 0.42 | 0.43 | 0.44 | 0.44 | 0.43 | 0.44 | 0.47 | 0.47 | 0.48 | 0.49 | 2.4% |
| Middle Atlantic | 0.77 | 0.80 | 0.84 | 0.87 | 0.89 | 0.92 | 0.96 | 1.01 | 1.04 | 1.09 | 1.13 | 1.15 | 1.17 | 3.3% |
| East North Central | 0.84 | 0.85 | 0.91 | 0.95 | 1.02 | 1.07 | 1.16 | 1.21 | 1.33 | 1.39 | 1.48 | 1.47 | 1.53 | 8.4% |
| West North Central | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.09 | 0.07 | -0.3% |
| South Atlantic | 0.65 | 0.70 | 0.73 | 0.77 | 0.79 | 0.83 | 0.85 | 0.89 | 0.92 | 0.95 | 0.96 | 1.02 | 1.04 | 3.0% |
| East South Central | 0.89 | 0.96 | 0.94 | 0.96 | 0.96 | 1.00 | 1.01 | 1.05 | 1.08 | 1.07 | 1.07 | 1.14 | 1.12 | 7.0% |
| West South Central | 1.93 | 1.93 | 1.97 | 2.01 | 2.04 | 2.10 | 2.14 | 2.19 | 2.21 | 2.26 | 2.29 | 2.39 | 2.35 | 0.9% |
| Mountain | 0.40 | 0.39 | 0.32 | 0.34 | 0.31 | 0.32 | 0.29 | 0.31 | 0.37 | 0.39 | 0.38 | 0.39 | 0.37 | -0.4% |
| Pacific | 1.69 | 1.75 | 1.80 | 1.88 | 1.93 | 2.02 | 2.11 | 2.20 | 2.21 | 2.32 | 2.35 | 2.41 | 2.43 | 3.1% |
| Total | 7.68 | 7.90 | 8.01 | 8.28 | 8.45 | 8.78 | 9.07 | 9.39 | 9.71 | 10.04 | 10.24 | 10.53 | 10.56 | 2.9% |
| Transportation 3/ | | | | | | | | | | | | | | |
| New England | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 11.4% |
| Middle Atlantic | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 9.3% |
| East North Central | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 9.2% |

**Table 105. Natural Gas Consumption by End-Use Sector and Census Division**
**(Trillion Cubic Feet per Year)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| West North Central | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 10.9% |
| South Atlantic | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 10.1% |
| East South Central | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 11.2% |
| West South Central | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 10.8% |
| Mountain | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 12.9% |
| Pacific | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 10.1% |
| Total | 0.07 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 10.4% |
| | | | | | | | | | | | | | | |
| All Sectors 4/ | | | | | | | | | | | | | | |
| New England | 1.03 | 1.04 | 1.05 | 1.06 | 1.07 | 1.09 | 1.10 | 1.10 | 1.12 | 1.16 | 1.18 | 1.19 | 1.22 | 1.9% |
| Middle Atlantic | 2.93 | 2.98 | 3.03 | 3.08 | 3.11 | 3.16 | 3.22 | 3.28 | 3.34 | 3.41 | 3.48 | 3.53 | 3.56 | 1.7% |
| East North Central | 4.78 | 4.82 | 4.90 | 4.96 | 5.05 | 5.15 | 5.28 | 5.37 | 5.53 | 5.63 | 5.77 | 5.80 | 5.90 | 2.1% |
| West North Central | 1.42 | 1.42 | 1.43 | 1.44 | 1.45 | 1.47 | 1.49 | 1.50 | 1.52 | 1.54 | 1.55 | 1.56 | 1.55 | 1.1% |
| South Atlantic | 2.57 | 2.65 | 2.71 | 2.78 | 2.83 | 2.91 | 2.98 | 3.05 | 3.12 | 3.18 | 3.23 | 3.33 | 3.40 | 2.3% |
| East South Central | 1.99 | 2.08 | 2.07 | 2.10 | 2.11 | 2.16 | 2.19 | 2.24 | 2.29 | 2.29 | 2.30 | 2.38 | 2.37 | 3.1% |
| West South Central | 5.95 | 5.98 | 6.07 | 6.14 | 6.20 | 6.31 | 6.42 | 6.51 | 6.59 | 6.70 | 6.78 | 6.95 | 6.97 | 1.2% |
| Mountain | 1.52 | 1.52 | 1.48 | 1.51 | 1.50 | 1.54 | 1.54 | 1.58 | 1.66 | 1.71 | 1.72 | 1.76 | 1.76 | 1.5% |
| Pacific | 4.29 | 4.39 | 4.47 | 4.58 | 4.67 | 4.80 | 4.93 | 5.07 | 5.12 | 5.28 | 5.36 | 5.47 | 5.53 | 2.1% |
| Total | 26.47 | 26.88 | 27.21 | 27.65 | 28.01 | 28.59 | 29.14 | 29.71 | 30.29 | 30.91 | 31.37 | 31.97 | 32.24 | 1.8% |

**Table 105. Natural Gas Consumption by End-Use Sector and Census Division**
**(Trillion Cubic Feet per Year)**

1/ Includes consumption for combined heat and power, which produces electricity and other useful thermal energy. Excludes lease and plant fuel.
2/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
3/ Compressed natural gas used as a vehicle fuel.
4/ Excludes lease and plant fuel and natural gas used for pipeline compressor station fuel.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2001 may differ slightly from official EIA data reports due to internal conversion factors in the AEO2003 National Energy Modeling System.
Sources: 2000 and 2001 electric utility fuel consumption: Energy Information Administration (EIA), Electric Power Annual 2000, Volume I, DOE/EIA-0348(2000)/1 (Washington, DC, August 2001). 2000 and 2001 nonutility consumption estimates: EIA, Form EIA-860 "Annual Electric Generator Report" (preliminary). Other 2000 values: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c. Other 2001 values: Short-Term Energy Outlook, September 2002, http://www.eia.doe.gov/pub/forecasting/steo/oldsteos/sep02.pdf. Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division**
**(2001 Dollars per Thousand Cubic Feet)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | | | | | | | | | | | | | |
| New England | 10.46 | 12.94 | 10.11 | 10.23 | 9.98 | 9.81 | 9.72 | 9.71 | 9.74 | 9.82 | 9.90 | 9.98 | 10.05 |
| Middle Atlantic | 9.02 | 10.70 | 9.20 | 9.41 | 9.13 | 8.98 | 8.87 | 8.89 | 8.94 | 9.01 | 9.12 | 9.20 | 9.27 |
| East North Central | 6.95 | 8.30 | 6.54 | 6.89 | 6.69 | 6.58 | 6.48 | 6.50 | 6.55 | 6.63 | 6.74 | 6.80 | 6.87 |
| West North Central | 7.60 | 9.37 | 6.94 | 7.18 | 7.04 | 6.96 | 6.89 | 6.92 | 6.96 | 7.03 | 7.11 | 7.17 | 7.22 |
| South Atlantic | 9.49 | 11.27 | 8.69 | 9.04 | 8.69 | 8.53 | 8.39 | 8.41 | 8.44 | 8.50 | 8.63 | 8.69 | 8.75 |
| East South Central | 8.03 | 10.52 | 7.56 | 8.00 | 7.69 | 7.61 | 7.52 | 7.58 | 7.63 | 7.73 | 7.89 | 7.96 | 8.05 |
| West South Central | 7.71 | 9.50 | 7.10 | 7.57 | 7.24 | 7.17 | 7.07 | 7.13 | 7.19 | 7.28 | 7.44 | 7.51 | 7.60 |
| Mountain | 6.70 | 8.59 | 6.49 | 6.52 | 6.44 | 6.46 | 6.41 | 6.44 | 6.63 | 6.66 | 6.65 | 6.61 | 6.53 |
| Pacific | 8.17 | 10.04 | 7.13 | 7.40 | 7.46 | 7.56 | 7.54 | 7.54 | 7.72 | 7.78 | 7.81 | 7.80 | 7.77 |
| Average | 7.97 | 9.68 | 7.50 | 7.79 | 7.59 | 7.52 | 7.43 | 7.45 | 7.52 | 7.59 | 7.68 | 7.73 | 7.77 |
| Commercial | | | | | | | | | | | | | |
| New England | 8.00 | 10.25 | 7.66 | 7.68 | 7.47 | 7.34 | 7.29 | 7.32 | 7.40 | 7.51 | 7.64 | 7.73 | 7.83 |
| Middle Atlantic | 7.52 | 8.59 | 6.61 | 6.74 | 6.49 | 6.37 | 6.31 | 6.37 | 6.47 | 6.58 | 6.73 | 6.82 | 6.91 |
| East North Central | 6.34 | 7.82 | 5.92 | 6.11 | 5.95 | 5.88 | 5.82 | 5.88 | 5.97 | 6.09 | 6.23 | 6.30 | 6.37 |
| West North Central | 6.50 | 8.12 | 5.80 | 5.90 | 5.79 | 5.75 | 5.72 | 5.78 | 5.87 | 5.97 | 6.10 | 6.17 | 6.23 |
| South Atlantic | 7.79 | 9.51 | 7.04 | 7.29 | 7.01 | 6.90 | 6.83 | 6.91 | 7.00 | 7.11 | 7.29 | 7.38 | 7.46 |
| East South Central | 7.05 | 9.23 | 6.50 | 6.79 | 6.51 | 6.46 | 6.40 | 6.50 | 6.59 | 6.72 | 6.92 | 6.99 | 7.08 |
| West South Central | 6.09 | 8.07 | 5.47 | 5.77 | 5.49 | 5.44 | 5.38 | 5.49 | 5.59 | 5.72 | 5.92 | 6.00 | 6.11 |
| Mountain | 5.63 | 7.41 | 5.36 | 5.28 | 5.28 | 5.36 | 5.36 | 5.45 | 5.69 | 5.77 | 5.81 | 5.79 | 5.73 |
| Pacific | 7.05 | 7.56 | 6.35 | 6.41 | 6.47 | 6.58 | 6.61 | 6.65 | 6.86 | 6.95 | 7.03 | 7.03 | 7.02 |
| Average | 6.82 | 8.32 | 6.21 | 6.37 | 6.20 | 6.16 | 6.12 | 6.19 | 6.31 | 6.42 | 6.56 | 6.62 | 6.69 |
| Industrial 1/ | | | | | | | | | | | | | |
| New England | 5.59 | 5.95 | 4.47 | 4.62 | 4.40 | 4.25 | 4.19 | 4.22 | 4.29 | 4.40 | 4.52 | 4.63 | 4.75 |
| Middle Atlantic | 5.75 | 6.12 | 4.71 | 4.97 | 4.70 | 4.57 | 4.49 | 4.55 | 4.63 | 4.74 | 4.88 | 4.99 | 5.09 |
| East North Central | 4.61 | 4.74 | 3.78 | 4.11 | 3.92 | 3.83 | 3.75 | 3.81 | 3.89 | 4.00 | 4.13 | 4.21 | 4.29 |
| West North Central | 5.37 | 5.54 | 4.16 | 4.37 | 4.23 | 4.16 | 4.11 | 4.16 | 4.24 | 4.33 | 4.44 | 4.52 | 4.59 |
| South Atlantic | 4.58 | 4.85 | 3.43 | 3.84 | 3.55 | 3.43 | 3.34 | 3.42 | 3.52 | 3.63 | 3.81 | 3.92 | 4.04 |
| East South Central | 4.47 | 4.77 | 3.21 | 3.63 | 3.35 | 3.28 | 3.20 | 3.30 | 3.39 | 3.52 | 3.70 | 3.80 | 3.91 |
| West South Central | 4.42 | 4.72 | 3.14 | 3.56 | 3.31 | 3.24 | 3.15 | 3.25 | 3.34 | 3.48 | 3.65 | 3.75 | 3.86 |
| Mountain | 4.24 | 4.57 | 3.69 | 3.67 | 3.63 | 3.67 | 3.65 | 3.73 | 3.96 | 4.02 | 4.04 | 4.04 | 3.99 |
| Pacific | 5.03 | 5.24 | 3.11 | 3.33 | 3.53 | 3.63 | 3.64 | 3.68 | 3.89 | 3.98 | 4.06 | 4.08 | 4.09 |
| Average | 4.75 | 5.00 | 3.49 | 3.82 | 3.68 | 3.62 | 3.55 | 3.63 | 3.74 | 3.85 | 4.00 | 4.07 | 4.16 |
| Electric Generators 2/ | | | | | | | | | | | | | |
| New England | 4.58 | 3.57 | 3.25 | 3.46 | 3.32 | 3.25 | 3.27 | 3.38 | 3.54 | 3.70 | 3.84 | 3.96 | 4.08 |
| Middle Atlantic | 4.73 | 4.23 | 3.42 | 3.69 | 3.48 | 3.37 | 3.31 | 3.40 | 3.53 | 3.67 | 3.85 | 3.97 | 4.09 |
| East North Central | 3.61 | 4.28 | 2.84 | 3.17 | 3.02 | 2.95 | 2.88 | 2.95 | 3.07 | 3.23 | 3.38 | 3.49 | 3.58 |
| West North Central | 4.45 | 4.34 | 3.31 | 3.52 | 3.37 | 3.31 | 3.27 | 3.28 | 3.45 | 3.57 | 3.70 | 3.80 | 3.89 |
| South Atlantic | 4.62 | 4.73 | 3.46 | 3.92 | 3.70 | 3.61 | 3.55 | 3.63 | 3.76 | 3.89 | 4.09 | 4.18 | 4.33 |
| East South Central | 4.27 | 3.98 | 3.19 | 3.65 | 3.41 | 3.28 | 3.23 | 3.36 | 3.53 | 3.74 | 4.00 | 4.15 | 4.28 |
| West South Central | 4.43 | 4.29 | 3.05 | 3.47 | 3.21 | 3.16 | 3.10 | 3.22 | 3.35 | 3.51 | 3.71 | 3.81 | 3.94 |
| Mountain | 4.70 | 5.42 | 2.96 | 3.37 | 3.52 | 3.66 | 3.68 | 3.70 | 4.02 | 4.10 | 4.19 | 4.17 | 4.15 |
| Pacific | 4.64 | 6.61 | 3.08 | 3.28 | 3.37 | 3.50 | 3.52 | 3.57 | 3.81 | 3.93 | 4.06 | 4.10 | 4.15 |
| Average | 4.51 | 4.87 | 3.13 | 3.48 | 3.35 | 3.33 | 3.30 | 3.38 | 3.55 | 3.69 | 3.86 | 3.95 | 4.05 |
| Transportation 3/ | | | | | | | | | | | | | |
| New England | 7.62 | 8.35 | 6.73 | 6.93 | 6.71 | 6.58 | 6.65 | 6.81 | 7.00 | 7.20 | 7.40 | 7.57 | 7.74 |
| Middle Atlantic | 8.21 | 8.63 | 7.37 | 7.66 | 7.37 | 7.23 | 7.32 | 7.54 | 7.77 | 7.99 | 8.21 | 8.38 | 8.53 |

**Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division**
**(2001 Dollars per Thousand Cubic Feet)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| East North Central | 7.95 | 8.48 | 7.42 | 7.76 | 7.56 | 7.44 | 7.48 | 7.64 | 7.82 | 8.01 | 8.19 | 8.31 | 8.42 |
| West North Central | 6.84 | 7.44 | 6.25 | 6.50 | 6.35 | 6.27 | 6.38 | 6.58 | 6.80 | 7.00 | 7.20 | 7.34 | 7.46 |
| South Atlantic | 6.69 | 7.66 | 6.00 | 6.47 | 6.17 | 6.06 | 6.12 | 6.33 | 6.55 | 6.77 | 7.02 | 7.18 | 7.36 |
| East South Central | 8.41 | 9.26 | 7.56 | 7.99 | 7.68 | 7.60 | 7.59 | 7.76 | 7.91 | 8.09 | 8.31 | 8.43 | 8.56 |
| West South Central | 3.67 | 4.79 | 3.14 | 3.68 | 3.37 | 3.33 | 3.55 | 3.93 | 4.28 | 4.62 | 4.97 | 5.20 | 5.43 |
| Mountain | 5.81 | 6.17 | 5.00 | 5.30 | 5.36 | 5.49 | 5.67 | 5.90 | 6.31 | 6.52 | 6.67 | 6.74 | 6.78 |
| Pacific | 7.11 | 9.20 | 5.92 | 6.26 | 6.35 | 6.49 | 6.67 | 6.86 | 7.24 | 7.45 | 7.61 | 7.68 | 7.72 |
| Average | 6.95 | 7.87 | 6.17 | 6.54 | 6.35 | 6.29 | 6.39 | 6.60 | 6.85 | 7.07 | 7.28 | 7.41 | 7.54 |
| | | | | | | | | | | | | | |
| All Sectors 4/ | | | | | | | | | | | | | |
| New England | 6.86 | 7.25 | 5.43 | 5.62 | 5.48 | 5.40 | 5.37 | 5.42 | 5.50 | 5.56 | 5.69 | 5.78 | 5.87 |
| Middle Atlantic | 6.95 | 7.70 | 6.34 | 6.57 | 6.26 | 6.10 | 6.02 | 6.03 | 6.06 | 6.13 | 6.24 | 6.31 | 6.39 |
| East North Central | 5.82 | 6.79 | 5.12 | 5.45 | 5.23 | 5.13 | 5.04 | 5.09 | 5.14 | 5.20 | 5.31 | 5.36 | 5.42 |
| West North Central | 6.40 | 7.56 | 5.54 | 5.74 | 5.62 | 5.59 | 5.52 | 5.59 | 5.63 | 5.70 | 5.80 | 5.86 | 5.91 |
| South Atlantic | 6.35 | 7.23 | 5.31 | 5.77 | 5.47 | 5.37 | 5.28 | 5.37 | 5.46 | 5.58 | 5.77 | 5.89 | 5.98 |
| East South Central | 5.68 | 6.59 | 4.56 | 4.93 | 4.66 | 4.63 | 4.55 | 4.63 | 4.67 | 4.75 | 4.90 | 4.95 | 5.04 |
| West South Central | 4.75 | 5.13 | 3.58 | 4.00 | 3.74 | 3.69 | 3.60 | 3.70 | 3.80 | 3.93 | 4.11 | 4.20 | 4.31 |
| Mountain | 5.35 | 6.50 | 4.55 | 4.61 | 4.65 | 4.75 | 4.77 | 4.90 | 5.12 | 5.21 | 5.24 | 5.24 | 5.18 |
| Pacific | 5.73 | 6.89 | 4.25 | 4.52 | 4.66 | 4.75 | 4.76 | 4.78 | 4.97 | 5.04 | 5.11 | 5.11 | 5.10 |
| Average | 5.74 | 6.57 | 4.74 | 5.07 | 4.91 | 4.86 | 4.80 | 4.86 | 4.95 | 5.04 | 5.17 | 5.22 | 5.28 |

**Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division**
**(2001 Dollars per Thousand Cubic Feet)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential | | | | | | | | | | | | | | |
| New England | 10.11 | 10.13 | 10.12 | 10.17 | 10.09 | 10.07 | 10.07 | 10.09 | 10.01 | 9.99 | 10.07 | 10.22 | 10.38 | -0.9% |
| Middle Atlantic | 9.32 | 9.35 | 9.37 | 9.39 | 9.36 | 9.33 | 9.34 | 9.43 | 9.42 | 9.45 | 9.51 | 9.58 | 9.64 | -0.4% |
| East North Central | 6.92 | 6.97 | 7.00 | 7.03 | 7.03 | 6.99 | 7.00 | 7.09 | 7.08 | 7.11 | 7.20 | 7.29 | 7.36 | -0.5% |
| West North Central | 7.26 | 7.35 | 7.40 | 7.43 | 7.40 | 7.38 | 7.38 | 7.44 | 7.38 | 7.42 | 7.52 | 7.68 | 7.82 | -0.8% |
| South Atlantic | 8.79 | 8.77 | 8.75 | 8.77 | 8.78 | 8.71 | 8.72 | 8.84 | 8.88 | 8.90 | 8.95 | 8.91 | 8.86 | -1.0% |
| East South Central | 8.13 | 8.12 | 8.12 | 8.16 | 8.19 | 8.12 | 8.14 | 8.28 | 8.34 | 8.39 | 8.45 | 8.41 | 8.38 | -0.9% |
| West South Central | 7.68 | 7.65 | 7.65 | 7.68 | 7.70 | 7.63 | 7.64 | 7.77 | 7.82 | 7.87 | 7.92 | 7.86 | 7.82 | -0.8% |
| Mountain | 6.46 | 6.74 | 6.87 | 6.94 | 6.92 | 6.88 | 6.89 | 6.98 | 6.87 | 6.93 | 7.05 | 7.30 | 7.46 | -0.6% |
| Pacific | 7.68 | 7.82 | 7.89 | 7.91 | 7.87 | 7.86 | 7.82 | 7.85 | 7.72 | 7.83 | 7.90 | 8.12 | 8.31 | -0.8% |
| Average | 7.80 | 7.86 | 7.90 | 7.93 | 7.91 | 7.87 | 7.87 | 7.96 | 7.93 | 7.97 | 8.05 | 8.14 | 8.22 | -0.7% |
| Commercial | | | | | | | | | | | | | | |
| New England | 7.89 | 7.92 | 7.92 | 7.97 | 7.89 | 7.88 | 7.88 | 7.91 | 7.84 | 7.83 | 7.91 | 8.07 | 8.24 | -0.9% |
| Middle Atlantic | 6.98 | 7.01 | 7.04 | 7.06 | 7.04 | 7.01 | 7.03 | 7.13 | 7.13 | 7.16 | 7.24 | 7.32 | 7.39 | -0.6% |
| East North Central | 6.43 | 6.49 | 6.52 | 6.55 | 6.55 | 6.51 | 6.53 | 6.62 | 6.61 | 6.65 | 6.74 | 6.83 | 6.91 | -0.5% |
| West North Central | 6.27 | 6.37 | 6.42 | 6.45 | 6.43 | 6.41 | 6.42 | 6.49 | 6.43 | 6.47 | 6.58 | 6.75 | 6.89 | -0.7% |
| South Atlantic | 7.53 | 7.52 | 7.52 | 7.55 | 7.56 | 7.50 | 7.52 | 7.66 | 7.71 | 7.75 | 7.80 | 7.78 | 7.74 | -0.9% |
| East South Central | 7.16 | 7.15 | 7.14 | 7.18 | 7.21 | 7.14 | 7.16 | 7.30 | 7.36 | 7.41 | 7.47 | 7.43 | 7.40 | -0.9% |
| West South Central | 6.20 | 6.18 | 6.18 | 6.22 | 6.25 | 6.19 | 6.20 | 6.35 | 6.41 | 6.47 | 6.53 | 6.49 | 6.46 | -0.9% |
| Mountain | 5.67 | 5.95 | 6.08 | 6.15 | 6.14 | 6.11 | 6.13 | 6.23 | 6.11 | 6.17 | 6.29 | 6.56 | 6.73 | -0.4% |
| Pacific | 6.95 | 7.08 | 7.15 | 7.18 | 7.14 | 7.14 | 7.11 | 7.15 | 7.04 | 7.15 | 7.22 | 7.44 | 7.62 | 0.0% |
| Average | 6.73 | 6.79 | 6.83 | 6.87 | 6.86 | 6.83 | 6.84 | 6.94 | 6.92 | 6.97 | 7.05 | 7.15 | 7.22 | -0.6% |
| Industrial 1/ | | | | | | | | | | | | | | |
| New England | 4.82 | 4.86 | 4.87 | 4.93 | 4.85 | 4.83 | 4.84 | 4.88 | 4.82 | 4.82 | 4.90 | 5.05 | 5.22 | -0.5% |
| Middle Atlantic | 5.18 | 5.23 | 5.26 | 5.28 | 5.26 | 5.24 | 5.26 | 5.36 | 5.37 | 5.40 | 5.48 | 5.56 | 5.63 | -0.3% |
| East North Central | 4.36 | 4.42 | 4.45 | 4.48 | 4.48 | 4.46 | 4.47 | 4.58 | 4.57 | 4.61 | 4.69 | 4.79 | 4.87 | 0.1% |
| West North Central | 4.64 | 4.74 | 4.79 | 4.83 | 4.80 | 4.79 | 4.81 | 4.89 | 4.82 | 4.86 | 4.96 | 5.13 | 5.26 | -0.2% |
| South Atlantic | 4.12 | 4.14 | 4.14 | 4.18 | 4.19 | 4.15 | 4.18 | 4.33 | 4.39 | 4.44 | 4.50 | 4.48 | 4.46 | -0.3% |
| East South Central | 4.00 | 4.00 | 4.00 | 4.04 | 4.07 | 4.02 | 4.04 | 4.19 | 4.26 | 4.32 | 4.38 | 4.35 | 4.33 | -0.4% |
| West South Central | 3.96 | 3.96 | 3.96 | 4.00 | 4.02 | 3.98 | 4.00 | 4.15 | 4.22 | 4.29 | 4.35 | 4.31 | 4.29 | -0.4% |
| Mountain | 3.94 | 4.24 | 4.39 | 4.47 | 4.46 | 4.44 | 4.49 | 4.64 | 4.52 | 4.57 | 4.69 | 4.98 | 5.14 | 0.5% |
| Pacific | 4.03 | 4.17 | 4.25 | 4.29 | 4.27 | 4.28 | 4.26 | 4.32 | 4.21 | 4.33 | 4.40 | 4.63 | 4.82 | -0.3% |
| Average | 4.21 | 4.27 | 4.29 | 4.33 | 4.34 | 4.31 | 4.33 | 4.44 | 4.45 | 4.51 | 4.58 | 4.65 | 4.70 | -0.3% |
| Electric Generators 2/ | | | | | | | | | | | | | | |
| New England | 4.16 | 4.21 | 4.21 | 4.27 | 4.20 | 4.19 | 4.21 | 4.25 | 4.20 | 4.21 | 4.29 | 4.45 | 4.63 | 1.1% |
| Middle Atlantic | 4.18 | 4.24 | 4.28 | 4.32 | 4.30 | 4.29 | 4.33 | 4.44 | 4.46 | 4.51 | 4.59 | 4.68 | 4.76 | 0.5% |
| East North Central | 3.66 | 3.72 | 3.77 | 3.81 | 3.83 | 3.83 | 3.88 | 4.00 | 4.02 | 4.07 | 4.18 | 4.29 | 4.37 | 0.1% |
| West North Central | 4.01 | 4.11 | 4.14 | 4.19 | 4.15 | 4.15 | 4.18 | 4.27 | 4.20 | 4.23 | 4.32 | 4.49 | 4.61 | 0.3% |
| South Atlantic | 4.44 | 4.48 | 4.49 | 4.52 | 4.53 | 4.50 | 4.54 | 4.70 | 4.78 | 4.84 | 4.90 | 4.86 | 4.83 | 0.1% |
| East South Central | 4.39 | 4.41 | 4.40 | 4.44 | 4.46 | 4.42 | 4.44 | 4.60 | 4.69 | 4.75 | 4.80 | 4.77 | 4.75 | 0.7% |
| West South Central | 4.05 | 4.05 | 4.05 | 4.09 | 4.12 | 4.08 | 4.10 | 4.26 | 4.33 | 4.40 | 4.46 | 4.43 | 4.41 | 0.1% |
| Mountain | 4.04 | 4.28 | 4.38 | 4.42 | 4.39 | 4.43 | 4.41 | 4.55 | 4.34 | 4.37 | 4.48 | 4.78 | 4.95 | -0.4% |
| Pacific | 4.14 | 4.28 | 4.36 | 4.42 | 4.37 | 4.39 | 4.38 | 4.45 | 4.36 | 4.51 | 4.60 | 4.83 | 5.02 | -1.1% |
| Average | 4.12 | 4.19 | 4.21 | 4.26 | 4.25 | 4.24 | 4.26 | 4.38 | 4.38 | 4.46 | 4.53 | 4.62 | 4.69 | -0.2% |
| Transportation 3/ | | | | | | | | | | | | | | |
| New England | 7.86 | 7.94 | 7.97 | 8.06 | 8.01 | 8.02 | 8.05 | 8.12 | 8.08 | 8.11 | 8.21 | 8.39 | 8.57 | 0.1% |
| Middle Atlantic | 8.65 | 8.72 | 8.76 | 8.79 | 8.76 | 8.75 | 8.78 | 8.88 | 8.89 | 8.93 | 9.01 | 9.09 | 9.16 | 0.2% |

**Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division**
**(2001 Dollars per Thousand Cubic Feet)**

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| East North Central | 8.51 | 8.57 | 8.61 | 8.64 | 8.63 | 8.59 | 8.61 | 8.70 | 8.69 | 8.72 | 8.80 | 8.88 | 8.95 | 0.2% |
| West North Central | 7.56 | 7.69 | 7.76 | 7.81 | 7.80 | 7.80 | 7.83 | 7.92 | 7.87 | 7.92 | 8.03 | 8.20 | 8.34 | 0.5% |
| South Atlantic | 7.48 | 7.53 | 7.56 | 7.61 | 7.63 | 7.61 | 7.65 | 7.81 | 7.89 | 7.96 | 8.03 | 8.02 | 8.00 | 0.2% |
| East South Central | 8.66 | 8.66 | 8.66 | 8.69 | 8.70 | 8.64 | 8.66 | 8.80 | 8.86 | 8.91 | 8.97 | 8.92 | 8.89 | -0.2% |
| West South Central | 5.63 | 5.70 | 5.76 | 5.84 | 5.91 | 5.90 | 5.96 | 6.15 | 6.26 | 6.37 | 6.46 | 6.46 | 6.46 | 1.2% |
| Mountain | 6.75 | 7.03 | 7.20 | 7.27 | 7.28 | 7.32 | 7.36 | 7.50 | 7.34 | 7.39 | 7.53 | 7.84 | 8.03 | 1.1% |
| Pacific | 7.68 | 7.88 | 7.99 | 8.05 | 8.04 | 8.07 | 8.05 | 8.14 | 8.02 | 8.15 | 8.23 | 8.50 | 8.71 | -0.2% |
| Average | 7.62 | 7.72 | 7.78 | 7.83 | 7.83 | 7.82 | 7.84 | 7.97 | 7.95 | 8.02 | 8.10 | 8.21 | 8.30 | 0.2% |
| | | | | | | | | | | | | | | |
| All Sectors 4/ | | | | | | | | | | | | | | |
| New England | 5.94 | 5.96 | 5.97 | 6.03 | 5.94 | 5.92 | 5.93 | 5.99 | 5.91 | 5.88 | 5.96 | 6.11 | 6.26 | -0.6% |
| Middle Atlantic | 6.46 | 6.48 | 6.48 | 6.48 | 6.44 | 6.40 | 6.40 | 6.47 | 6.45 | 6.46 | 6.51 | 6.58 | 6.64 | -0.6% |
| East North Central | 5.47 | 5.51 | 5.53 | 5.55 | 5.53 | 5.49 | 5.48 | 5.57 | 5.53 | 5.56 | 5.63 | 5.73 | 5.80 | -0.7% |
| West North Central | 5.95 | 6.05 | 6.10 | 6.14 | 6.11 | 6.09 | 6.10 | 6.16 | 6.09 | 6.12 | 6.23 | 6.39 | 6.55 | -0.6% |
| South Atlantic | 6.05 | 6.04 | 6.04 | 6.06 | 6.07 | 6.01 | 6.03 | 6.17 | 6.22 | 6.27 | 6.32 | 6.28 | 6.25 | -0.6% |
| East South Central | 5.12 | 5.10 | 5.11 | 5.14 | 5.16 | 5.11 | 5.12 | 5.26 | 5.33 | 5.39 | 5.44 | 5.39 | 5.37 | -0.8% |
| West South Central | 4.41 | 4.40 | 4.40 | 4.44 | 4.46 | 4.42 | 4.44 | 4.59 | 4.65 | 4.72 | 4.78 | 4.74 | 4.71 | -0.4% |
| Mountain | 5.13 | 5.42 | 5.61 | 5.66 | 5.68 | 5.66 | 5.70 | 5.81 | 5.64 | 5.68 | 5.81 | 6.09 | 6.27 | -0.2% |
| Pacific | 5.05 | 5.18 | 5.25 | 5.29 | 5.24 | 5.24 | 5.21 | 5.26 | 5.16 | 5.28 | 5.36 | 5.58 | 5.77 | -0.7% |
| Average | 5.33 | 5.38 | 5.41 | 5.44 | 5.43 | 5.39 | 5.40 | 5.50 | 5.48 | 5.54 | 5.61 | 5.68 | 5.75 | -0.6% |

**Table 106. Natural Gas Delivered Prices by End-Use Sector and Census Division**
**(2001 Dollars per Thousand Cubic Feet)**

1/ Includes consumption for combined heat and power, which produces electricity and other useful thermal energy. Excludes lease and plant fuel.
2/ Includes consumption of energy by electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. Includes small power producers and exempt wholesale generators.
3/ Compressed natural gas used as a vehicle fuel, including federal and state fuel taxes. Excludes dispensing charges for fleet vehicles.
4/ Weighted average price. Weights used are the sector consumption values.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding. Data for 2000 and 2001 may differ slightly from official EIA data reports due to internal conversion factors in the AEO2003 National Energy Modeling System and the use of different adjustments to account for unavailable data.
Sources: 2000 and 2001 industrial natural gas delivered prices are based on Energy Information Administration (EIA), Manufacturing Energy Consumption Survey 1998. 2000 and 2001 transportation values based on EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001) and assumed fuel taxes. Other 2000 values: EIA, Natural Gas Annual 2000, DOE/EIA-0131(2000) (Washington, DC, November 2001). Other 2001 values: EIA, Natural Gas Monthly, DOE/EIA-0130(2002/08) (Washington, DC, August 2002). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 107. Natural Gas Pipeline Capacity by Census Division**
**(Design Capacity in Billions of Cubic Feet per Year)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity Entering Region 1/ | | | | | | | | | | | | | |
| New England | 1214 | 1219 | 1237 | 1281 | 1385 | 1482 | 1482 | 1482 | 1482 | 1482 | 1482 | 1482 | 1485 |
| Middle Atlantic | 4530 | 4534 | 4551 | 4651 | 4872 | 5046 | 5046 | 5046 | 5046 | 5046 | 5046 | 5046 | 5046 |
| East North Central | 8500 | 8921 | 8969 | 8969 | 8969 | 8969 | 8969 | 8969 | 8969 | 8969 | 9101 | 9253 | 9406 |
| West North Central | 6539 | 7212 | 7297 | 7551 | 7718 | 7718 | 7718 | 7718 | 7718 | 7718 | 7718 | 7718 | 7718 |
| South Atlantic | 5628 | 5703 | 5995 | 6542 | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 |
| East South Central | 9220 | 9306 | 9404 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 |
| West South Central | 1813 | 1823 | 1849 | 1860 | 1860 | 1860 | 1860 | 1860 | 1860 | 1860 | 1860 | 1861 | 1883 |
| Mountain | 2482 | 2482 | 2549 | 2684 | 2723 | 2801 | 2801 | 2801 | 2801 | 2801 | 2801 | 2801 | 2801 |
| Pacific | 3850 | 3866 | 3966 | 4122 | 4217 | 4330 | 4330 | 4330 | 4330 | 4330 | 4330 | 4378 | 4471 |
| Total | 43776 | 45066 | 45817 | 47122 | 47865 | 48328 | 48328 | 48328 | 48328 | 48328 | 48460 | 48661 | 48932 |
| United States (Pipeline Imports) | 5235 | 5906 | 5949 | 6088 | 6382 | 6689 | 6689 | 6689 | 6689 | 6689 | 6689 | 6689 | 6715 |
| Capacity Exiting Region 2/ | | | | | | | | | | | | | |
| New England | 104 | 104 | 112 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 |
| Middle Atlantic | 2047 | 2047 | 2056 | 2101 | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 |
| East North Central | 3181 | 3364 | 3364 | 3364 | 3364 | 3364 | 3364 | 3364 | 3364 | 3364 | 3364 | 3364 | 3364 |
| West North Central | 4854 | 5275 | 5361 | 5441 | 5441 | 5441 | 5441 | 5441 | 5441 | 5441 | 5573 | 5725 | 5878 |
| South Atlantic | 3381 | 3430 | 3430 | 3445 | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 |
| East South Central | 7450 | 7525 | 7817 | 8363 | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 |
| West South Central | 14322 | 14359 | 14499 | 14644 | 14697 | 14776 | 14776 | 14776 | 14776 | 14776 | 14776 | 14776 | 14776 |
| Mountain | 4586 | 4637 | 4920 | 5388 | 5578 | 5656 | 5656 | 5656 | 5656 | 5656 | 5656 | 5706 | 5797 |
| Pacific | 290 | 376 | 376 | 376 | 376 | 381 | 381 | 381 | 381 | 381 | 381 | 381 | 381 |
| Total | 40216 | 41117 | 41937 | 43252 | 43701 | 43863 | 43863 | 43863 | 43863 | 43863 | 43995 | 44196 | 44441 |
| United States (Pipeline Exports) | 1676 | 1957 | 2069 | 2218 | 2218 | 2223 | 2223 | 2223 | 2223 | 2223 | 2223 | 2223 | 2223 |

**Table 107. Natural Gas Pipeline Capacity by Census Division**
**(Design Capacity in Billions of Cubic Feet per Year)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity Entering Region 1/ | | | | | | | | | | | | | | |
| New England | 1502 | 1561 | 1641 | 1712 | 1762 | 1812 | 1862 | 1912 | 1945 | 1945 | 1945 | 1945 | 1945 | 2.0% |
| Middle Atlantic | 5046 | 5046 | 5046 | 5046 | 5046 | 5046 | 5046 | 5048 | 5093 | 5139 | 5181 | 5209 | 5224 | 0.6% |
| East North Central | 9549 | 9629 | 9711 | 9791 | 9914 | 10019 | 10176 | 10338 | 10587 | 10796 | 10999 | 11026 | 11228 | 1.0% |
| West North Central | 7802 | 7908 | 7990 | 8060 | 8165 | 8268 | 8425 | 8639 | 9144 | 9613 | 9787 | 9800 | 9903 | 1.3% |
| South Atlantic | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 | 6662 | 0.6% |
| East South Central | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 9460 | 0.1% |
| West South Central | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1908 | 1909 | 1910 | 1917 | 1917 | 0.2% |
| Mountain | 2801 | 2801 | 2801 | 2801 | 2801 | 2801 | 2801 | 2801 | 2810 | 2817 | 2817 | 2817 | 2819 | 0.5% |
| Pacific | 4546 | 4594 | 4646 | 4673 | 4714 | 4819 | 4917 | 5000 | 5297 | 5652 | 5735 | 5735 | 5824 | 1.7% |
| Total | 49265 | 49559 | 49856 | 50103 | 50421 | 50785 | 51246 | 51757 | 52905 | 53993 | 54496 | 54572 | 54982 | 0.8% |
| United States (Pipeline Imports) | 6744 | 6804 | 6886 | 6965 | 7022 | 7089 | 7177 | 7227 | 8020 | 8841 | 8924 | 8928 | 9120 | 1.8% |
| Capacity Exiting Region 2/ | | | | | | | | | | | | | | |
| New England | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 0.9% |
| Middle Atlantic | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 | 2156 | 0.2% |
| East North Central | 3364 | 3364 | 3364 | 3364 | 3364 | 3364 | 3364 | 3366 | 3411 | 3457 | 3500 | 3524 | 3536 | 0.2% |
| West North Central | 6021 | 6101 | 6183 | 6263 | 6386 | 6491 | 6647 | 6809 | 7059 | 7267 | 7471 | 7498 | 7700 | 1.6% |
| South Atlantic | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 | 3476 | 0.1% |
| East South Central | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 | 8483 | 0.5% |
| West South Central | 14776 | 14776 | 14776 | 14776 | 14776 | 14776 | 14776 | 14776 | 14776 | 14776 | 14776 | 14776 | 14776 | 0.1% |
| Mountain | 5958 | 6112 | 6244 | 6333 | 6471 | 6663 | 6879 | 7176 | 7238 | 7249 | 7423 | 7444 | 7448 | 2.0% |
| Pacific | 381 | 381 | 381 | 381 | 381 | 381 | 381 | 381 | 381 | 381 | 381 | 381 | 381 | 0.1% |
| Total | 44744 | 44978 | 45193 | 45361 | 45622 | 45919 | 46292 | 46753 | 47109 | 47375 | 47795 | 47867 | 48085 | 0.7% |
| United States (Pipeline Exports) | 2223 | 2223 | 2223 | 2223 | 2223 | 2223 | 2223 | 2223 | 2223 | 2223 | 2223 | 2223 | 2223 | 0.5% |

**Table 107. Natural Gas Pipeline Capacity by Census Division**
**(Design Capacity in Billions of Cubic Feet per Year)**

1/ Includes only the sum of capacity levels for the States bounding the respective regions including pipeline import capacity.
2/ Includes only the sum of capacity levels for the States bounding the respective regions including pipeline export capacity.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 108. Natural Gas Pipeline Capacity Utilization 1/ by Census Division**
**(Fraction)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Utilization Entering Region | | | | | | | | | | | | | |
| New England | 0.59 | 0.56 | 0.64 | 0.65 | 0.57 | 0.52 | 0.51 | 0.52 | 0.53 | 0.55 | 0.56 | 0.57 | 0.58 |
| Middle Atlantic | 0.71 | 0.66 | 0.62 | 0.64 | 0.63 | 0.60 | 0.60 | 0.61 | 0.62 | 0.63 | 0.64 | 0.65 | 0.65 |
| East North Central | 0.61 | 0.62 | 0.61 | 0.63 | 0.65 | 0.65 | 0.65 | 0.66 | 0.67 | 0.68 | 0.68 | 0.68 | 0.68 |
| West North Central | 0.60 | 0.57 | 0.56 | 0.57 | 0.57 | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.58 | 0.59 | 0.61 |
| South Atlantic | 0.66 | 0.62 | 0.58 | 0.53 | 0.52 | 0.51 | 0.50 | 0.49 | 0.49 | 0.49 | 0.49 | 0.49 | 0.50 |
| East South Central | 0.60 | 0.60 | 0.61 | 0.62 | 0.64 | 0.64 | 0.65 | 0.65 | 0.67 | 0.69 | 0.70 | 0.72 | 0.73 |
| West South Central | 0.20 | 0.20 | 0.23 | 0.28 | 0.29 | 0.27 | 0.24 | 0.23 | 0.21 | 0.19 | 0.19 | 0.19 | 0.20 |
| Mountain | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.11 |
| Pacific | 0.64 | 0.68 | 0.66 | 0.62 | 0.61 | 0.62 | 0.63 | 0.65 | 0.69 | 0.71 | 0.74 | 0.76 | 0.78 |
| Average 2/ | 0.58 | 0.57 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 | 0.60 |
| United States (Pipeline Imports) | 0.77 | 0.73 | 0.67 | 0.68 | 0.66 | 0.65 | 0.65 | 0.66 | 0.69 | 0.71 | 0.73 | 0.74 | 0.76 |
| Utilization Exiting Region | | | | | | | | | | | | | |
| New England | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 |
| Middle Atlantic | 0.33 | 0.29 | 0.33 | 0.34 | 0.30 | 0.28 | 0.27 | 0.26 | 0.25 | 0.26 | 0.26 | 0.26 | 0.27 |
| East North Central | 0.62 | 0.62 | 0.58 | 0.60 | 0.58 | 0.56 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.56 |
| West North Central | 0.64 | 0.61 | 0.59 | 0.62 | 0.63 | 0.63 | 0.63 | 0.63 | 0.64 | 0.65 | 0.65 | 0.65 | 0.65 |
| South Atlantic | 0.58 | 0.55 | 0.52 | 0.52 | 0.51 | 0.50 | 0.49 | 0.49 | 0.49 | 0.50 | 0.50 | 0.50 | 0.50 |
| East South Central | 0.66 | 0.65 | 0.63 | 0.60 | 0.61 | 0.61 | 0.62 | 0.62 | 0.62 | 0.63 | 0.63 | 0.63 | 0.64 |
| West South Central | 0.49 | 0.50 | 0.51 | 0.52 | 0.53 | 0.52 | 0.53 | 0.53 | 0.55 | 0.56 | 0.56 | 0.57 | 0.58 |
| Mountain | 0.50 | 0.50 | 0.53 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.53 | 0.54 | 0.55 | 0.57 | 0.60 |
| Pacific | 0.05 | 0.10 | 0.09 | 0.09 | 0.13 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.15 |
| Average 2/ | 0.55 | 0.54 | 0.54 | 0.54 | 0.55 | 0.54 | 0.54 | 0.54 | 0.55 | 0.56 | 0.56 | 0.57 | 0.58 |
| United States (Pipeline Exports) | 0.41 | 0.47 | 0.49 | 0.49 | 0.51 | 0.52 | 0.52 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.52 |

**Table 108. Natural Gas Pipeline Capacity Utilization 1/ by Census Division**
**(Fraction)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Utilization Entering Region | | | | | | | | | | | | | | |
| New England | 0.58 | 0.56 | 0.54 | 0.52 | 0.52 | 0.51 | 0.50 | 0.49 | 0.50 | 0.51 | 0.52 | 0.53 | 0.54 | -0.1% |
| Middle Atlantic | 0.65 | 0.66 | 0.66 | 0.67 | 0.67 | 0.68 | 0.69 | 0.69 | 0.70 | 0.70 | 0.71 | 0.71 | 0.71 | 0.3% |
| East North Central | 0.68 | 0.68 | 0.68 | 0.68 | 0.68 | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.70 | 0.70 | 0.70 | 0.5% |
| West North Central | 0.61 | 0.61 | 0.61 | 0.61 | 0.62 | 0.62 | 0.62 | 0.62 | 0.61 | 0.61 | 0.61 | 0.62 | 0.61 | 0.3% |
| South Atlantic | 0.50 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.52 | 0.52 | 0.53 | 0.54 | 0.54 | 0.54 | 0.54 | -0.5% |
| East South Central | 0.73 | 0.74 | 0.75 | 0.76 | 0.76 | 0.77 | 0.78 | 0.79 | 0.79 | 0.79 | 0.79 | 0.80 | 0.81 | 1.2% |
| West South Central | 0.20 | 0.20 | 0.20 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.20 | 0.20 | 0.23 | 0.25 | 0.27 | 1.2% |
| Mountain | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.6% |
| Pacific | 0.79 | 0.80 | 0.81 | 0.83 | 0.84 | 0.85 | 0.86 | 0.87 | 0.83 | 0.81 | 0.81 | 0.83 | 0.83 | 0.9% |
| Average 2/ | 0.61 | 0.61 | 0.62 | 0.62 | 0.62 | 0.62 | 0.63 | 0.64 | 0.64 | 0.63 | 0.64 | 0.65 | 0.65 | 0.5% |
| United States (Pipeline Imports) | 0.76 | 0.77 | 0.76 | 0.79 | 0.81 | 0.81 | 0.82 | 0.84 | 0.86 | 0.87 | 0.88 | 0.90 | 0.91 | 0.9% |
| Utilization Exiting Region | | | | | | | | | | | | | | |
| New England | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.86 | 0.0% |
| Middle Atlantic | 0.26 | 0.25 | 0.24 | 0.23 | 0.23 | 0.22 | 0.21 | 0.20 | 0.20 | 0.19 | 0.19 | 0.18 | 0.18 | -2.0% |
| East North Central | 0.56 | 0.56 | 0.56 | 0.57 | 0.57 | 0.57 | 0.58 | 0.58 | 0.58 | 0.58 | 0.59 | 0.59 | 0.59 | -0.2% |
| West North Central | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.66 | 0.66 | 0.66 | 0.66 | 0.67 | 0.67 | 0.68 | 0.66 | 0.4% |
| South Atlantic | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.49 | 0.49 | 0.48 | 0.49 | 0.49 | -0.5% |
| East South Central | 0.63 | 0.64 | 0.65 | 0.65 | 0.65 | 0.66 | 0.67 | 0.68 | 0.68 | 0.68 | 0.68 | 0.69 | 0.70 | 0.3% |
| West South Central | 0.58 | 0.58 | 0.59 | 0.59 | 0.58 | 0.59 | 0.60 | 0.60 | 0.59 | 0.57 | 0.57 | 0.58 | 0.58 | 0.7% |
| Mountain | 0.62 | 0.63 | 0.63 | 0.62 | 0.62 | 0.63 | 0.63 | 0.63 | 0.59 | 0.56 | 0.58 | 0.58 | 0.57 | 0.5% |
| Pacific | 0.15 | 0.14 | 0.13 | 0.13 | 0.12 | 0.11 | 0.10 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | -1.0% |
| Average 2/ | 0.58 | 0.58 | 0.59 | 0.59 | 0.58 | 0.59 | 0.59 | 0.60 | 0.59 | 0.58 | 0.58 | 0.59 | 0.59 | 0.3% |
| United States (Pipeline Exports) | 0.51 | 0.51 | 0.50 | 0.49 | 0.48 | 0.47 | 0.45 | 0.44 | 0.42 | 0.42 | 0.42 | 0.42 | 0.42 | -0.5% |

**Table 108. Natural Gas Pipeline Capacity Utilization 1/ by Census Division**
**(Fraction)**

1/ Capacity utilization is defined as the annual throughput volume divided by the design capacity (Table 107).
2/ Weighted average utilization. Weights used are the regional pipeline capacity levels provided in Table 107.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 109. Domestic Coal Supply Disposition, and Prices**
**(Quantities in Million Short Tons; Prices in 2001 Dollars per Short Ton)**

| Supply, Consumption, and Prices | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sources of Supply | | | | | | | | | | | | | |
| Distribution from | | | | | | | | | | | | | |
| Appalachia 1/ | 388.1 | 399.6 | 372.0 | 374.5 | 371.2 | 380.7 | 391.3 | 400.9 | 397.3 | 394.0 | 391.1 | 391.0 | 384.8 |
| Interior | 143.6 | 146.8 | 148.9 | 153.7 | 156.0 | 165.1 | 168.1 | 166.8 | 167.7 | 166.5 | 158.3 | 149.7 | 146.8 |
| Northern Great Plains | 403.2 | 429.3 | 429.8 | 432.1 | 435.3 | 438.3 | 454.4 | 476.1 | 493.2 | 510.1 | 539.4 | 557.1 | 567.5 |
| Other West and Non-Contiguous | 98.4 | 104.7 | 93.6 | 98.4 | 100.4 | 101.2 | 103.4 | 106.6 | 105.4 | 107.2 | 106.6 | 110.0 | 116.4 |
| Total Distribution (excludes exports) | 1033.3 | 1080.3 | 1044.3 | 1058.7 | 1062.8 | 1085.3 | 1117.3 | 1150.4 | 1163.7 | 1177.8 | 1195.4 | 1207.7 | 1215.5 |
| Imports | 12.5 | 19.8 | 15.7 | 16.2 | 16.7 | 17.3 | 17.8 | 18.3 | 18.8 | 19.3 | 19.8 | 20.4 | 20.9 |
| Total Supply | 1045.8 | 1100.1 | 1060.0 | 1075.0 | 1079.5 | 1102.5 | 1135.0 | 1168.7 | 1182.5 | 1197.1 | 1215.2 | 1228.1 | 1236.4 |
| Consumption | | | | | | | | | | | | | |
| Residential/Commercial | 4.1 | 4.1 | 4.5 | 4.6 | 4.5 | 4.7 | 4.7 | 4.8 | 4.8 | 4.8 | 4.9 | 4.9 | 5.0 |
| Industrial 2/ | 65.2 | 63.4 | 62.6 | 63.7 | 64.3 | 64.5 | 64.2 | 64.8 | 65.6 | 65.9 | 66.5 | 66.9 | 67.3 |
| Coke Plants | 28.9 | 26.1 | 23.5 | 24.8 | 24.7 | 24.7 | 24.7 | 24.6 | 25.0 | 24.5 | 24.1 | 23.6 | 23.2 |
| Electric Generators 3/ | 982.6 | 956.9 | 949.2 | 966.3 | 988.9 | 1011.8 | 1044.1 | 1077.4 | 1089.8 | 1104.7 | 1122.8 | 1135.1 | 1143.8 |
| Total Consumption | 1080.8 | 1050.5 | 1039.8 | 1059.4 | 1082.4 | 1105.7 | 1137.7 | 1171.6 | 1185.1 | 1200.0 | 1218.2 | 1230.5 | 1239.3 |
| Discrepancy 4/ | -34.9 | 49.7 | 20.1 | 15.5 | -2.9 | -3.1 | -2.7 | -2.8 | -2.7 | -2.8 | -2.9 | -2.4 | -2.9 |
| Delivered Prices | | | | | | | | | | | | | |
| Industrial | 32.20 | 32.83 | 31.96 | 31.69 | 31.30 | 31.14 | 31.12 | 30.89 | 30.53 | 30.27 | 29.97 | 29.80 | 29.55 |
| Coke Plants | 45.43 | 46.42 | 44.40 | 44.08 | 43.60 | 43.17 | 42.93 | 42.46 | 42.01 | 41.67 | 41.38 | 40.81 | 40.67 |
| Electric Generators | 24.85 | 25.06 | 24.79 | 24.89 | 24.70 | 24.92 | 24.67 | 24.39 | 24.09 | 23.81 | 23.61 | 23.55 | 23.39 |
| Average Price 5/ | 25.85 | 26.06 | 25.67 | 25.75 | 25.52 | 25.70 | 25.43 | 25.13 | 24.82 | 24.53 | 24.31 | 24.22 | 24.05 |

**Table 109. Domestic Coal Supply Disposition, and Prices**
**(Quantities in Million Short Tons; Prices in 2001 Dollars per Short Ton)**

| Supply, Consumption, and Prices | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sources of Supply | | | | | | | | | | | | | | |
| Distribution from | | | | | | | | | | | | | | |
| Appalachia 1/ | 386.2 | 388.2 | 393.6 | 392.4 | 391.4 | 393.9 | 394.4 | 394.4 | 393.6 | 393.1 | 395.7 | 400.7 | 409.0 | 0.1% |
| Interior | 148.5 | 147.4 | 149.7 | 152.0 | 153.5 | 153.3 | 152.4 | 150.0 | 151.7 | 153.1 | 154.4 | 156.1 | 159.3 | 0.3% |
| Northern Great Plains | 574.6 | 584.7 | 594.2 | 607.8 | 625.4 | 635.7 | 649.7 | 664.8 | 669.6 | 686.7 | 699.3 | 706.0 | 718.8 | 2.2% |
| Other West and Non-Contiguous | 116.9 | 116.7 | 119.6 | 119.0 | 119.4 | 118.3 | 121.2 | 121.1 | 122.7 | 122.1 | 124.4 | 125.2 | 126.9 | 0.8% |
| Total Distribution (excludes exports) | 1226.2 | 1237.0 | 1257.1 | 1271.2 | 1289.7 | 1301.3 | 1317.7 | 1330.2 | 1337.6 | 1355.1 | 1373.8 | 1388.0 | 1414.0 | 1.1% |
| Imports | 21.4 | 21.9 | 22.4 | 22.9 | 23.5 | 24.0 | 24.5 | 25.0 | 25.5 | 26.0 | 26.5 | 27.1 | 27.6 | 1.4% |
| Total Supply | 1247.6 | 1258.9 | 1279.6 | 1294.1 | 1313.1 | 1325.2 | 1342.1 | 1355.2 | 1363.1 | 1381.1 | 1400.4 | 1415.0 | 1441.6 | 1.1% |
| Consumption | | | | | | | | | | | | | | |
| Residential/Commercial | 5.0 | 5.0 | 5.0 | 5.1 | 5.1 | 5.2 | 5.2 | 5.3 | 5.3 | 5.3 | 5.3 | 5.4 | 5.4 | 1.2% |
| Industrial 2/ | 67.7 | 68.0 | 68.2 | 68.4 | 68.6 | 68.8 | 69.1 | 69.4 | 69.7 | 69.9 | 70.3 | 70.6 | 70.9 | 0.5% |
| Coke Plants | 22.8 | 22.3 | 21.9 | 21.5 | 21.1 | 20.8 | 20.4 | 20.0 | 19.6 | 19.3 | 18.9 | 18.6 | 18.2 | -1.5% |
| Electric Generators 3/ | 1155.0 | 1166.0 | 1187.2 | 1201.9 | 1221.0 | 1233.3 | 1250.2 | 1263.4 | 1271.4 | 1289.5 | 1308.9 | 1323.4 | 1349.8 | 1.4% |
| Total Consumption | 1250.5 | 1261.4 | 1282.4 | 1296.9 | 1315.9 | 1328.0 | 1344.9 | 1358.1 | 1366.0 | 1384.1 | 1403.5 | 1417.9 | 1444.4 | 1.3% |
| Discrepancy 4/ | -2.8 | -2.5 | -2.8 | -2.8 | -2.8 | -2.8 | -2.8 | -2.9 | -2.9 | -3.0 | -3.1 | -2.9 | -2.7 | N/A |
| Delivered Prices | | | | | | | | | | | | | | |
| Industrial | 29.53 | 29.39 | 29.33 | 29.16 | 28.96 | 28.87 | 28.69 | 28.40 | 28.23 | 28.16 | 28.00 | 27.98 | 27.92 | -0.7% |
| Coke Plants | 40.54 | 40.39 | 40.03 | 39.66 | 39.33 | 39.20 | 38.80 | 38.62 | 37.93 | 37.72 | 37.48 | 37.37 | 37.09 | -0.9% |
| Electric Generators | 23.33 | 23.24 | 23.16 | 23.02 | 22.84 | 22.76 | 22.65 | 22.45 | 22.33 | 22.30 | 22.21 | 22.22 | 22.17 | -0.5% |
| Average Price 5/ | 23.98 | 23.87 | 23.78 | 23.62 | 23.43 | 23.33 | 23.21 | 23.00 | 22.86 | 22.81 | 22.71 | 22.71 | 22.64 | -0.6% |

**Table 109. Domestic Coal Supply Disposition, and Prices**
**(Quantities in Million Short Tons; Prices in 2001 Dollars per Short Ton)**

1/ Includes waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal distribution tables. The totals for this table include this waste coal tonnage.
2/ Includes consumption for combined heat and power plants, except those plants whose primary business is to sell electricity, or electricity and heat, to the public.
3/ Includes electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public.
4/ Includes stock changes.
5/ Weighted average excludes residential/commercial prices.
Appalachia: PA, OH, MD, WV, VA, TN, AL, Eastern KY.
Interior: Western KY, IL, IN, IA, MO, MS, KS, OK, AR, TX, LA.
Northern Great Plains: ND, MT, WY.
Other West and Non-Contiguous: CO, UT, AZ, NM, WA, AK.
N/A = Not applicable.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 110. Coal Production and Minemouth Prices by Region**
**(Production in Million Short Tons, Prices in 2001 Dollars per Short Ton)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Production | | | | | | | | | | | | | |
| Appalachia 2/ | 429.54 | 443.40 | 407.15 | 409.32 | 405.07 | 414.09 | 424.28 | 433.17 | 429.02 | 425.12 | 421.51 | 418.25 | 411.51 |
| Interior | 143.53 | 147.03 | 148.86 | 153.75 | 155.95 | 165.11 | 168.12 | 166.77 | 167.72 | 166.50 | 158.29 | 149.66 | 146.77 |
| Northern Great Plains | 408.29 | 438.37 | 432.18 | 434.46 | 437.49 | 440.33 | 456.33 | 477.95 | 494.88 | 511.69 | 540.87 | 558.31 | 568.61 |
| Other West and Non-Contiguous | 102.14 | 109.51 | 96.64 | 101.52 | 103.84 | 104.66 | 106.87 | 110.01 | 108.81 | 110.51 | 109.86 | 113.26 | 119.66 |
| Appalachia 2/ | 429.54 | 443.40 | 407.15 | 409.32 | 405.07 | 414.09 | 424.28 | 433.17 | 429.02 | 425.12 | 421.51 | 418.25 | 411.51 |
| Interior | 143.53 | 147.03 | 148.86 | 153.75 | 155.95 | 165.11 | 168.12 | 166.77 | 167.72 | 166.50 | 158.29 | 149.66 | 146.77 |
| West | 510.43 | 547.88 | 528.82 | 535.98 | 541.33 | 544.99 | 563.20 | 587.97 | 603.69 | 622.19 | 650.73 | 671.58 | 688.27 |
| East of Mississippi River | 517.63 | 539.40 | 505.10 | 512.58 | 506.02 | 520.84 | 533.85 | 541.16 | 538.38 | 533.51 | 527.86 | 521.64 | 513.39 |
| West of Mississippi River | 565.87 | 598.91 | 579.74 | 586.46 | 596.33 | 603.37 | 621.74 | 646.75 | 662.04 | 680.31 | 702.67 | 717.85 | 733.17 |
| U.S. Total | 1083.50 | 1138.31 | 1084.84 | 1099.04 | 1102.36 | 1124.20 | 1155.59 | 1187.91 | 1200.42 | 1213.82 | 1230.53 | 1239.49 | 1246.56 |
| Minemouth Prices | | | | | | | | | | | | | |
| Appalachia | 26.39 | 27.23 | 26.75 | 26.61 | 26.24 | 26.01 | 25.89 | 25.67 | 25.31 | 25.08 | 24.86 | 24.75 | 24.55 |
| Interior | 18.85 | 20.18 | 19.74 | 19.68 | 19.36 | 19.39 | 19.27 | 18.92 | 18.75 | 18.54 | 18.36 | 18.17 | 18.00 |
| Northern Great Plains | 6.20 | 6.27 | 6.36 | 6.22 | 6.09 | 5.94 | 5.89 | 5.82 | 5.77 | 5.71 | 5.74 | 5.79 | 5.82 |
| Other West and Non-Contiguous | 19.95 | 20.40 | 19.42 | 19.34 | 19.14 | 18.76 | 18.47 | 18.26 | 17.98 | 17.89 | 17.79 | 17.81 | 17.91 |
| Appalachia | 26.39 | 27.23 | 26.75 | 26.61 | 26.24 | 26.01 | 25.89 | 25.67 | 25.31 | 25.08 | 24.86 | 24.75 | 24.55 |
| Interior | 18.85 | 20.18 | 19.74 | 19.68 | 19.36 | 19.39 | 19.27 | 18.92 | 18.75 | 18.54 | 18.36 | 18.17 | 18.00 |
| West | 8.96 | 9.09 | 8.74 | 8.70 | 8.59 | 8.40 | 8.27 | 8.15 | 7.97 | 7.88 | 7.78 | 7.81 | 7.92 |
| East of Mississippi River | 25.61 | 26.28 | 25.92 | 25.74 | 25.38 | 25.18 | 25.06 | 24.81 | 24.47 | 24.23 | 24.01 | 23.87 | 23.67 |
| West of Mississippi River | 9.47 | 9.76 | 9.25 | 9.19 | 9.14 | 9.01 | 8.86 | 8.72 | 8.52 | 8.41 | 8.22 | 8.17 | 8.24 |
| U.S. Total | 17.18 | 17.59 | 17.01 | 16.91 | 16.60 | 16.50 | 16.34 | 16.05 | 15.68 | 15.37 | 14.99 | 14.78 | 14.60 |

**Table 110. Coal Production and Minemouth Prices by Region**
**(Production in Million Short Tons, Prices in 2001 Dollars per Short Ton)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Production | | | | | | | | | | | | | | |
| Appalachia 2/ | 413.42 | 414.56 | 417.96 | 415.73 | 414.94 | 417.70 | 418.46 | 418.64 | 416.12 | 415.25 | 417.87 | 422.56 | 430.89 | -0.1% |
| Interior | 148.54 | 147.41 | 149.73 | 151.95 | 153.51 | 153.32 | 152.38 | 149.98 | 151.70 | 153.11 | 154.42 | 156.07 | 159.33 | 0.3% |
| Northern Great Plains | 575.71 | 585.74 | 595.27 | 608.86 | 626.44 | 636.75 | 650.72 | 665.76 | 670.58 | 687.72 | 700.26 | 706.93 | 719.74 | 2.1% |
| Other West and Non-Contiguous | 120.11 | 119.94 | 122.77 | 122.21 | 122.62 | 121.55 | 124.38 | 124.35 | 125.92 | 125.35 | 127.67 | 128.42 | 130.11 | 0.7% |
| Appalachia 2/ | 413.42 | 414.56 | 417.96 | 415.73 | 414.94 | 417.70 | 418.46 | 418.64 | 416.12 | 415.25 | 417.87 | 422.56 | 430.89 | -0.1% |
| Interior | 148.54 | 147.41 | 149.73 | 151.95 | 153.51 | 153.32 | 152.38 | 149.98 | 151.70 | 153.11 | 154.42 | 156.07 | 159.33 | 0.3% |
| West | 695.83 | 705.68 | 718.04 | 731.08 | 749.06 | 758.30 | 775.10 | 790.11 | 796.50 | 813.07 | 827.93 | 835.35 | 849.85 | 1.8% |
| East of Mississippi River | 518.31 | 519.56 | 525.74 | 524.82 | 525.72 | 529.20 | 531.18 | 529.37 | 529.21 | 530.35 | 534.70 | 541.59 | 552.57 | 0.1% |
| West of Mississippi River | 739.47 | 748.10 | 759.99 | 773.94 | 791.80 | 800.12 | 814.77 | 829.37 | 835.12 | 851.08 | 865.53 | 872.39 | 887.50 | 1.7% |
| U.S. Total | 1257.78 | 1267.65 | 1285.73 | 1298.76 | 1317.52 | 1329.32 | 1345.94 | 1358.74 | 1364.33 | 1381.43 | 1400.23 | 1413.98 | 1440.07 | 1.0% |
| Minemouth Prices | | | | | | | | | | | | | | |
| Appalachia | 24.72 | 24.70 | 24.80 | 24.77 | 24.71 | 24.81 | 24.81 | 24.69 | 24.53 | 24.60 | 24.52 | 24.67 | 24.78 | -0.4% |
| Interior | 18.14 | 18.18 | 18.26 | 18.29 | 18.24 | 18.33 | 18.33 | 18.25 | 18.27 | 18.35 | 18.36 | 18.39 | 18.31 | -0.4% |
| Northern Great Plains | 5.86 | 5.97 | 6.00 | 6.08 | 6.16 | 6.24 | 6.32 | 6.40 | 6.42 | 6.48 | 6.54 | 6.60 | 6.60 | 0.2% |
| Other West and Non-Contiguous | 17.84 | 17.82 | 17.83 | 17.80 | 17.74 | 17.68 | 17.74 | 17.79 | 17.85 | 17.86 | 17.84 | 17.83 | 17.86 | -0.6% |
| Appalachia | 24.72 | 24.70 | 24.80 | 24.77 | 24.71 | 24.81 | 24.81 | 24.69 | 24.53 | 24.60 | 24.52 | 24.67 | 24.78 | -0.4% |
| Interior | 18.14 | 18.18 | 18.26 | 18.29 | 18.24 | 18.33 | 18.33 | 18.25 | 18.27 | 18.35 | 18.36 | 18.39 | 18.31 | -0.4% |
| West | 7.93 | 7.98 | 8.02 | 8.04 | 8.05 | 8.07 | 8.15 | 8.19 | 8.23 | 8.24 | 8.28 | 8.33 | 8.33 | -0.4% |
| East of Mississippi River | 23.81 | 23.80 | 23.88 | 23.85 | 23.77 | 23.86 | 23.85 | 23.74 | 23.59 | 23.64 | 23.57 | 23.68 | 23.74 | -0.4% |
| West of Mississippi River | 8.24 | 8.27 | 8.30 | 8.32 | 8.33 | 8.33 | 8.38 | 8.41 | 8.44 | 8.44 | 8.48 | 8.52 | 8.51 | -0.6% |
| U.S. Total | 14.65 | 14.63 | 14.67 | 14.59 | 14.49 | 14.51 | 14.48 | 14.38 | 14.32 | 14.28 | 14.24 | 14.32 | 14.36 | -0.8% |

**Table 110. Coal Production and Minemouth Prices by Region**
**(Production in Million Short Tons, Prices in 2001 Dollars per Short Ton)**

1/ Coal Production Regions:
Appalachia: PA, OH, MD, WV, VA, TN, AL, Eastern KY.
Interior: Western KY, IL, IN, IA, MO, MS, KS, OK, AR, TX, LA.
Northern Great Plains: ND, MT, WY.
Other West and Non-Contiguous: CO, UT, AZ, NM, WA, AK.
2/ Includes waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal distribution tables. The totals for this table include this waste coal tonnage.
N/A = Not applicable
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 111. Coal Production by Region and Type**
**(Million Short Tons)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Northern Appalachia | 149.14 | 153.60 | 136.83 | 137.66 | 134.53 | 142.23 | 146.21 | 146.64 | 139.07 | 136.86 | 135.09 | 134.07 | 131.87 |
| Medium Sulfur (Premium) 1/ | 4.66 | 3.85 | 2.43 | 2.53 | 2.52 | 2.52 | 2.51 | 2.51 | 2.53 | 2.49 | 2.45 | 2.41 | 2.38 |
| Low Sulfur (Bituminous) 2/ | 0.36 | 0.37 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Medium Sulfur (Bituminous) 2/ | 72.61 | 75.20 | 64.88 | 66.71 | 64.78 | 66.68 | 69.71 | 70.27 | 67.99 | 66.18 | 64.82 | 65.60 | 64.49 |
| High Sulfur (Bituminous) | 61.41 | 63.58 | 58.52 | 56.99 | 55.80 | 61.60 | 62.56 | 62.43 | 57.12 | 56.76 | 56.39 | 54.63 | 53.57 |
| High Sulfur (Gob) 3/ | 10.10 | 10.60 | 11.00 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 |
| Central Appalachia | 258.40 | 266.95 | 252.35 | 252.96 | 251.93 | 252.61 | 258.26 | 266.30 | 269.48 | 267.93 | 265.94 | 264.09 | 259.92 |
| Medium Sulfur (Premium) 1/ | 47.16 | 38.93 | 33.70 | 34.34 | 34.25 | 34.16 | 34.07 | 33.77 | 33.91 | 33.44 | 32.98 | 30.45 | 30.16 |
| Low Sulfur (Bituminous) | 65.91 | 71.20 | 64.25 | 66.96 | 68.60 | 68.77 | 70.93 | 71.85 | 72.35 | 71.70 | 71.73 | 75.56 | 78.25 |
| Medium Sulfur (Bituminous) | 145.33 | 156.82 | 154.40 | 151.66 | 149.08 | 149.68 | 153.26 | 160.68 | 163.21 | 162.79 | 161.22 | 158.08 | 151.51 |
| Southern Appalachia | 22.00 | 22.85 | 17.97 | 18.69 | 18.61 | 19.26 | 19.81 | 20.24 | 20.47 | 20.33 | 20.48 | 20.08 | 19.72 |
| Low Sulfur (Premium) 1/ | 6.82 | 6.72 | 6.45 | 6.59 | 6.58 | 6.57 | 6.55 | 6.54 | 6.58 | 6.50 | 6.37 | 5.83 | 5.76 |
| Low Sulfur (Bituminous) | 6.03 | 5.88 | 3.21 | 3.21 | 3.17 | 3.01 | 3.14 | 3.43 | 3.55 | 3.57 | 3.90 | 4.16 | 4.34 |
| Medium Sulfur (Bituminous) | 9.15 | 10.25 | 8.31 | 8.90 | 8.85 | 9.68 | 10.11 | 10.27 | 10.34 | 10.26 | 10.21 | 10.10 | 9.62 |
| Eastern Interior | 88.09 | 96.00 | 97.95 | 103.27 | 100.95 | 106.74 | 109.58 | 107.99 | 109.36 | 108.38 | 106.35 | 103.39 | 101.87 |
| Medium Sulfur (Bituminous) | 30.86 | 33.56 | 31.24 | 33.88 | 31.77 | 32.13 | 33.81 | 34.66 | 34.72 | 34.51 | 33.35 | 32.46 | 31.34 |
| High Sulfur (Bituminous) | 56.33 | 61.84 | 65.97 | 66.42 | 66.07 | 71.33 | 72.33 | 69.72 | 70.85 | 69.90 | 68.93 | 66.87 | 66.73 |
| Medium Sulfur (Lignite) | 0.90 | 0.60 | 0.74 | 2.97 | 3.12 | 3.27 | 3.44 | 3.61 | 3.79 | 3.98 | 4.07 | 4.06 | 3.81 |
| Western Interior High Sulfur (Bituminous) | 2.42 | 2.41 | 2.35 | 2.46 | 2.46 | 2.68 | 2.69 | 2.64 | 2.64 | 2.57 | 2.55 | 2.46 | 2.33 |
| Gulf | 53.02 | 48.62 | 48.56 | 48.01 | 52.54 | 55.69 | 55.85 | 56.14 | 55.72 | 55.54 | 49.40 | 43.81 | 42.57 |
| Medium Sulfur (Lignite) | 36.44 | 33.42 | 28.74 | 27.79 | 30.69 | 32.74 | 33.39 | 33.06 | 33.56 | 33.03 | 30.01 | 27.26 | 26.87 |
| High Sulfur (Lignite) | 16.58 | 15.20 | 19.82 | 20.23 | 21.85 | 22.95 | 22.46 | 23.08 | 22.16 | 22.51 | 19.39 | 16.56 | 15.69 |
| Dakota Medium Sulfur (Lignite) | 31.41 | 30.82 | 31.55 | 30.85 | 30.57 | 30.54 | 30.69 | 30.88 | 31.12 | 31.31 | 31.51 | 31.70 | 31.90 |
| Powder/Green River | 376.88 | 407.55 | 400.62 | 403.61 | 406.92 | 409.79 | 425.63 | 447.07 | 463.75 | 480.38 | 509.35 | 526.61 | 536.71 |
| Low Sulfur (Bituminous) | 1.21 | 0.00 | 0.10 | 0.10 | 0.10 | 0.10 | 1.34 | 1.41 | 1.48 | 1.56 | 1.59 | 1.60 | 1.62 |
| Low Sulfur (Sub-Bituminous) | 345.74 | 375.08 | 368.82 | 368.20 | 373.62 | 379.37 | 394.44 | 416.27 | 433.98 | 450.91 | 478.34 | 495.20 | 507.15 |
| Medium Sulfur (Sub-Bituminous) | 29.93 | 32.47 | 31.71 | 35.31 | 33.20 | 30.33 | 29.85 | 29.39 | 28.30 | 27.91 | 29.43 | 29.81 | 27.94 |
| Rocky Mountain | 55.80 | 60.34 | 57.36 | 61.82 | 63.85 | 64.59 | 66.93 | 70.21 | 69.15 | 70.90 | 70.30 | 73.80 | 80.10 |
| Low Sulfur (Bituminous) | 46.64 | 50.51 | 48.38 | 52.99 | 54.02 | 54.87 | 57.31 | 60.70 | 59.73 | 61.57 | 61.11 | 64.68 | 71.10 |
| Low Sulfur (Sub-Bituminous) | 9.16 | 9.83 | 8.97 | 8.83 | 9.83 | 9.72 | 9.62 | 9.51 | 9.42 | 9.33 | 9.19 | 9.12 | 9.00 |
| Arizona/New Mexico | 40.43 | 43.03 | 33.31 | 33.66 | 33.87 | 33.94 | 33.79 | 33.64 | 33.49 | 33.43 | 33.37 | 33.26 | 33.35 |
| Low Sulfur (Bituminous) | 19.62 | 20.88 | 15.32 | 15.49 | 15.59 | 15.65 | 15.47 | 15.31 | 14.94 | 14.88 | 14.82 | 14.71 | 15.28 |
| Medium Sulfur (Bituminous) | 0.00 | 0.68 | 3.54 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 |
| Medium Sulfur (Sub-Bituminous) | 20.81 | 21.47 | 14.45 | 11.10 | 11.21 | 11.22 | 11.25 | 11.26 | 11.48 | 11.48 | 11.48 | 11.48 | 11.00 |
| Washington/Alaska | | | | | | | | | | | | | |
| Medium Sulfur (Sub-Bituminous) | 5.91 | 6.14 | 5.98 | 6.03 | 6.12 | 6.13 | 6.15 | 6.16 | 6.17 | 6.18 | 6.19 | 6.20 | 6.21 |
| Subtotals: All Regions | | | | | | | | | | | | | |
| Premium Metallurgical 1/ | 58.64 | 49.50 | 42.58 | 43.46 | 43.35 | 43.25 | 43.14 | 42.81 | 43.02 | 42.44 | 41.81 | 38.70 | 38.30 |

**Table 111. Coal Production by Region and Type**
**(Million Short Tons)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bituminous | 517.88 | 553.18 | 520.49 | 532.83 | 527.36 | 543.26 | 559.74 | 570.45 | 566.00 | 563.30 | 557.68 | 557.97 | 557.25 |
| Sub-Bituminous | 411.55 | 444.99 | 429.93 | 429.48 | 433.98 | 436.76 | 451.31 | 472.59 | 489.34 | 505.81 | 534.63 | 551.81 | 561.31 |
| Lignite | 95.43 | 90.64 | 91.85 | 93.26 | 97.66 | 100.93 | 101.41 | 102.06 | 102.06 | 102.26 | 96.41 | 91.01 | 89.70 |
| | | | | | | | | | | | | | |
| Low Sulfur | 501.49 | 540.47 | 515.50 | 522.37 | 531.51 | 538.05 | 558.82 | 585.03 | 602.02 | 620.02 | 647.05 | 670.86 | 692.51 |
| Medium Sulfur | 435.17 | 444.21 | 411.67 | 419.14 | 413.23 | 416.16 | 425.30 | 433.58 | 434.19 | 430.62 | 424.79 | 416.68 | 404.30 |
| High Sulfur | 146.84 | 153.63 | 157.66 | 157.52 | 157.61 | 169.99 | 171.47 | 169.30 | 164.21 | 163.18 | 158.68 | 151.94 | 149.75 |
| | | | | | | | | | | | | | |
| Underground | 373.43 | 380.23 | 355.57 | 371.36 | 369.99 | 380.76 | 393.92 | 404.03 | 399.30 | 398.40 | 394.00 | 394.83 | 397.79 |
| Surface | 710.07 | 758.08 | 729.26 | 727.68 | 732.37 | 743.44 | 761.67 | 783.88 | 801.12 | 815.42 | 836.52 | 844.65 | 848.77 |
| | | | | | | | | | | | | | |
| U.S. Total | 1083.50 | 1138.31 | 1084.84 | 1099.04 | 1102.35 | 1124.20 | 1155.59 | 1187.91 | 1200.42 | 1213.82 | 1230.53 | 1239.48 | 1246.55 |

**Table 111. Coal Production by Region and Type**
**(Million Short Tons)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Northern Appalachia | 130.91 | 131.54 | 131.73 | 132.61 | 131.91 | 137.17 | 137.62 | 139.07 | 139.58 | 140.61 | 143.58 | 146.93 | 148.45 | -0.1% |
| Medium Sulfur (Premium) 1/ | 2.37 | 2.36 | 2.35 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 2.35 | 2.36 | 2.37 | 2.38 | 2.40 | -2.0% |
| Low Sulfur (Bituminous) 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Medium Sulfur (Bituminous) 2/ | 63.55 | 64.15 | 63.59 | 63.15 | 63.83 | 66.34 | 65.56 | 66.80 | 66.60 | 67.40 | 69.00 | 71.09 | 73.14 | -0.1% |
| High Sulfur (Bituminous) | 53.56 | 53.60 | 54.35 | 55.69 | 54.31 | 57.06 | 58.29 | 58.50 | 59.20 | 59.43 | 60.79 | 62.03 | 61.49 | -0.1% |
| High Sulfur (Gob) 3/ | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 11.43 | 0.3% |
| Central Appalachia | 262.93 | 263.65 | 267.04 | 264.53 | 264.61 | 262.80 | 263.34 | 262.68 | 260.09 | 258.47 | 258.41 | 260.07 | 266.95 | 0.0% |
| Medium Sulfur (Premium) 1/ | 30.23 | 30.30 | 30.32 | 29.39 | 29.28 | 29.40 | 29.34 | 29.47 | 27.67 | 27.12 | 26.93 | 26.45 | 26.17 | -1.6% |
| Low Sulfur (Bituminous) | 77.64 | 75.64 | 74.83 | 73.82 | 72.72 | 71.96 | 72.24 | 71.99 | 71.65 | 71.20 | 71.53 | 72.09 | 75.13 | 0.2% |
| Medium Sulfur (Bituminous) | 155.06 | 157.71 | 161.89 | 161.33 | 162.62 | 161.45 | 161.76 | 161.23 | 160.77 | 160.15 | 159.96 | 161.53 | 165.65 | 0.2% |
| Southern Appalachia | 19.58 | 19.37 | 19.19 | 18.58 | 18.42 | 17.72 | 17.49 | 16.88 | 16.45 | 16.16 | 15.87 | 15.56 | 15.49 | -1.6% |
| Low Sulfur (Premium) 1/ | 5.72 | 5.69 | 5.67 | 5.38 | 5.43 | 5.25 | 5.26 | 5.08 | 4.85 | 4.76 | 4.69 | 4.53 | 4.57 | -1.6% |
| Low Sulfur (Bituminous) | 4.36 | 4.27 | 4.23 | 4.19 | 4.14 | 3.95 | 3.90 | 3.70 | 3.60 | 3.54 | 3.44 | 3.38 | 3.30 | -2.4% |
| Medium Sulfur (Bituminous) | 9.50 | 9.41 | 9.29 | 9.01 | 8.85 | 8.53 | 8.34 | 8.11 | 8.00 | 7.87 | 7.75 | 7.65 | 7.61 | -1.2% |
| Eastern Interior | 104.89 | 104.99 | 107.78 | 109.09 | 110.77 | 111.50 | 112.72 | 110.73 | 113.09 | 115.10 | 116.82 | 119.03 | 121.69 | 1.0% |
| Medium Sulfur (Bituminous) | 33.77 | 34.79 | 37.46 | 39.21 | 40.45 | 39.73 | 39.51 | 39.00 | 38.98 | 39.35 | 39.79 | 39.82 | 40.92 | 0.8% |
| High Sulfur (Bituminous) | 67.19 | 66.22 | 66.31 | 65.90 | 66.31 | 67.78 | 69.25 | 67.78 | 70.16 | 71.87 | 73.15 | 75.40 | 77.08 | 0.9% |
| Medium Sulfur (Lignite) | 3.93 | 3.98 | 4.01 | 3.99 | 4.01 | 4.00 | 3.95 | 3.96 | 3.95 | 3.88 | 3.89 | 3.81 | 3.68 | 7.9% |
| Western Interior High Sulfur (Bituminous) | 2.30 | 2.31 | 2.27 | 2.21 | 2.17 | 2.09 | 2.03 | 1.98 | 1.96 | 1.92 | 1.88 | 1.85 | 1.85 | -1.1% |
| Gulf | 41.35 | 40.10 | 39.68 | 40.65 | 40.57 | 39.72 | 37.63 | 37.27 | 36.66 | 36.09 | 35.71 | 35.19 | 35.80 | -1.3% |
| Medium Sulfur (Lignite) | 25.86 | 25.24 | 24.71 | 25.00 | 24.86 | 24.27 | 22.74 | 22.60 | 22.26 | 21.76 | 21.60 | 21.24 | 21.59 | -1.8% |
| High Sulfur (Lignite) | 15.48 | 14.86 | 14.97 | 15.65 | 15.72 | 15.45 | 14.89 | 14.67 | 14.39 | 14.33 | 14.11 | 13.95 | 14.21 | -0.3% |
| Dakota Medium Sulfur (Lignite) | 32.08 | 32.29 | 32.47 | 32.65 | 32.90 | 33.08 | 33.27 | 33.46 | 33.47 | 33.48 | 33.50 | 33.53 | 33.55 | 0.4% |
| Powder/Green River | 543.63 | 553.45 | 562.80 | 576.21 | 593.54 | 603.67 | 617.45 | 632.30 | 637.12 | 654.24 | 666.76 | 673.40 | 686.19 | 2.2% |
| Low Sulfur (Bituminous) | 1.63 | 1.66 | 1.67 | 1.69 | 1.71 | 1.62 | 1.46 | 1.27 | 1.14 | 1.03 | 0.93 | 0.84 | 0.77 | N/A |
| Low Sulfur (Sub-Bituminous) | 515.48 | 524.31 | 532.46 | 544.54 | 559.82 | 569.11 | 581.11 | 595.28 | 598.93 | 614.69 | 625.79 | 631.52 | 642.20 | 2.3% |
| Medium Sulfur (Sub-Bituminous) | 26.51 | 27.48 | 28.66 | 29.98 | 32.01 | 32.94 | 34.87 | 35.75 | 37.05 | 38.53 | 40.04 | 41.04 | 43.22 | 1.2% |
| Rocky Mountain | 81.10 | 81.53 | 84.59 | 84.33 | 85.00 | 84.18 | 87.15 | 87.24 | 88.55 | 88.22 | 90.53 | 91.26 | 92.94 | 1.8% |
| Low Sulfur (Bituminous) | 72.22 | 72.88 | 76.06 | 75.90 | 77.04 | 76.49 | 79.93 | 80.73 | 82.04 | 81.71 | 84.01 | 84.75 | 86.43 | 2.3% |
| Low Sulfur (Sub-Bituminous) | 8.88 | 8.65 | 8.52 | 8.43 | 7.96 | 7.69 | 7.22 | 6.51 | 6.51 | 6.51 | 6.51 | 6.51 | 6.51 | -1.7% |
| Arizona/New Mexico | 32.79 | 32.19 | 31.95 | 31.64 | 31.36 | 31.11 | 30.96 | 30.83 | 30.90 | 30.83 | 30.84 | 30.84 | 30.84 | -1.4% |
| Low Sulfur (Bituminous) | 15.20 | 14.73 | 14.65 | 14.47 | 14.34 | 14.23 | 14.22 | 14.22 | 14.29 | 14.22 | 14.22 | 14.22 | 14.22 | -1.6% |
| Medium Sulfur (Bituminous) | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 7.07 | 10.2% |
| Medium Sulfur (Sub-Bituminous) | 10.53 | 10.38 | 10.23 | 10.09 | 9.95 | 9.81 | 9.67 | 9.54 | 9.54 | 9.54 | 9.54 | 9.55 | 9.55 | -3.3% |
| Washington/Alaska | | | | | | | | | | | | | | |
| Medium Sulfur (Sub-Bituminous) | 6.22 | 6.23 | 6.24 | 6.24 | 6.25 | 6.26 | 6.27 | 6.28 | 6.47 | 6.30 | 6.31 | 6.32 | 6.33 | 0.1% |
| Subtotals: All Regions | | | | | | | | | | | | | | |
| Premium Metallurgical 1/ | 38.32 | 38.34 | 38.33 | 37.11 | 37.05 | 36.99 | 36.94 | 36.89 | 34.87 | 34.23 | 33.98 | 33.36 | 33.14 | -1.7% |

**Table 111. Coal Production by Region and Type**
**(Million Short Tons)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bituminous | 563.05 | 564.45 | 573.69 | 573.64 | 575.56 | 578.28 | 583.57 | 582.36 | 585.44 | 586.74 | 593.51 | 601.73 | 614.65 | 0.4% |
| Sub-Bituminous | 567.61 | 577.05 | 586.11 | 599.29 | 615.99 | 625.81 | 639.15 | 653.36 | 658.50 | 675.57 | 688.19 | 694.93 | 707.81 | 2.0% |
| Lignite | 88.80 | 87.80 | 87.59 | 88.72 | 88.92 | 88.23 | 86.29 | 86.12 | 85.50 | 84.88 | 84.53 | 83.96 | 84.47 | -0.3% |
| | | | | | | | | | | | | | | |
| Low Sulfur | 701.14 | 707.83 | 718.10 | 728.42 | 743.16 | 750.29 | 765.33 | 778.77 | 783.00 | 797.65 | 811.12 | 817.84 | 833.13 | 1.8% |
| Medium Sulfur | 406.68 | 411.40 | 418.29 | 419.46 | 424.43 | 425.20 | 424.71 | 425.60 | 424.19 | 424.80 | 427.74 | 431.48 | 440.88 | 0.0% |
| High Sulfur | 149.96 | 148.42 | 149.33 | 150.88 | 149.93 | 153.82 | 155.89 | 154.35 | 157.14 | 158.97 | 161.36 | 164.66 | 166.06 | 0.3% |
| | | | | | | | | | | | | | | |
| Underground | 402.36 | 405.94 | 413.86 | 415.02 | 417.41 | 422.19 | 428.53 | 427.61 | 429.55 | 431.38 | 437.56 | 444.51 | 456.12 | 0.8% |
| Surface | 855.42 | 861.71 | 871.86 | 883.73 | 900.10 | 907.12 | 917.41 | 931.13 | 934.77 | 950.05 | 962.66 | 969.47 | 983.94 | 1.1% |
| | | | | | | | | | | | | | | |
| U.S. Total | 1257.77 | 1267.65 | 1285.72 | 1298.76 | 1317.51 | 1329.31 | 1345.94 | 1358.73 | 1364.33 | 1381.42 | 1400.22 | 1413.98 | 1440.07 | 1.0% |

**Table 111. Coal Production by Region and Type**
**(Million Short Tons)**

1/ "Premium" coal is used to make metallurgical coke.
2/ Includes Pennsylvania anthracite.
3/ Waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal production tables. The totals for this table include this waste coal tonnage.
Northern Appalachia: PA, MD, OH, Northern WV (PA anthracite is included under low and medium sulfur bituminous).
Central Appalachia: Southern WV, VA, Eastern KY
Southern Appalachia: AL, TN.
Eastern Interior: IL, IN, MS, Western KY.
Western Interior (Bituminous Only): IA, MO, KS, OK, AR, TX.
Gulf (Lignite Only): TX, LA, AR.
Dakota: ND, Eastern MT (Lignite Only).
Powder/Green River: WY, MT (Sub-Bituminous and Bituminous)
Rocky Mountains: CO, UT.
Sulfur Definitions:
Low Sulfur: 0 - 0.60 pounds of sulfur per million Btu.
Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million Btu.
High Sulfur: Over 1.67 pounds of sulfur per million Btu.
Btu = British thermal unit.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 112. World Steam Coal Flows By Importing Regions and Exporting Countries 1,2/**
**(Million Short Tons)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Steam Coal Exports to Europe 3/ | | | | | | | | | | | | | |
| Australia | 13.8 | 9.5 | 10.7 | 10.5 | 10.4 | 10.2 | 9.9 | 10.0 | 10.1 | 10.2 | 10.3 | 10.2 | 10.2 |
| United States | 5.8 | 6.4 | 3.9 | 4.4 | 4.8 | 4.8 | 5.3 | 5.4 | 4.4 | 4.6 | 4.4 | 3.9 | 3.5 |
| South Africa | 55.6 | 62.4 | 70.4 | 69.0 | 68.0 | 67.4 | 67.9 | 68.8 | 69.6 | 70.5 | 71.4 | 71.0 | 70.7 |
| Former Soviet Union | 18.4 | 18.5 | 19.1 | 19.8 | 20.1 | 20.4 | 20.4 | 20.3 | 21.9 | 22.2 | 22.4 | 22.6 | 22.8 |
| Poland | 15.7 | 18.1 | 17.2 | 15.5 | 13.8 | 12.1 | 11.5 | 10.9 | 10.3 | 9.7 | 9.1 | 8.7 | 8.2 |
| Canada | 0.3 | 0.0 | 4.1 | 4.2 | 4.3 | 4.4 | 4.9 | 5.3 | 5.7 | 6.2 | 6.6 | 6.4 | 6.2 |
| China | 3.2 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South America | 30.4 | 29.5 | 27.4 | 28.9 | 30.3 | 32.0 | 32.6 | 33.4 | 35.2 | 35.9 | 36.9 | 38.1 | 39.4 |
| Indonesia 4/ | 4.5 | 12.0 | 10.4 | 11.2 | 11.9 | 12.7 | 12.5 | 11.8 | 9.4 | 8.5 | 7.6 | 5.9 | 4.2 |
| Total | 147.7 | 161.8 | 163.2 | 163.5 | 163.7 | 163.9 | 165.0 | 165.9 | 166.8 | 167.8 | 168.7 | 166.9 | 165.1 |
| Steam Coal Exports to Asia | | | | | | | | | | | | | |
| Australia | 83.2 | 85.2 | 93.0 | 95.6 | 98.4 | 101.8 | 105.6 | 109.3 | 111.3 | 114.7 | 118.2 | 117.1 | 116.1 |
| United States | 4.3 | 2.8 | 2.8 | 2.8 | 3.1 | 3.1 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| South Africa | 14.4 | 8.5 | 0.8 | 3.5 | 5.8 | 7.7 | 8.0 | 7.9 | 7.9 | 7.9 | 7.8 | 9.3 | 10.8 |
| Former Soviet Union | 6.0 | 7.1 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.8 | 6.9 | 7.1 |
| Poland | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Canada | 3.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| China | 53.8 | 80.4 | 92.2 | 94.5 | 96.9 | 99.2 | 102.1 | 104.9 | 107.8 | 110.7 | 113.5 | 114.4 | 115.3 |
| South America | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indonesia 4/ | 46.5 | 49.5 | 51.4 | 53.2 | 55.0 | 56.8 | 58.5 | 60.7 | 64.5 | 66.9 | 69.2 | 72.2 | 75.1 |
| Total | 211.5 | 235.8 | 246.9 | 256.5 | 266.0 | 275.5 | 284.2 | 292.8 | 301.5 | 310.2 | 318.8 | 323.2 | 327.5 |
| Steam Coal Exports to America | | | | | | | | | | | | | |
| Australia | 2.3 | 2.0 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 |
| United States | 15.4 | 14.0 | 12.6 | 12.3 | 10.9 | 10.4 | 9.4 | 8.7 | 9.2 | 8.4 | 7.9 | 7.7 | 7.4 |
| South Africa | 1.3 | 2.1 | 2.9 | 2.9 | 2.9 | 3.0 | 3.1 | 3.3 | 3.5 | 3.7 | 3.8 | 3.8 | 3.8 |
| Former Soviet Union | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Poland | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Canada | 0.7 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| China | 0.2 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South America | 15.0 | 20.4 | 26.5 | 28.1 | 29.6 | 31.0 | 32.0 | 32.8 | 32.7 | 33.6 | 34.3 | 34.9 | 35.4 |
| Indonesia 4/ | 2.4 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 37.5 | 44.3 | 42.3 | 43.5 | 43.7 | 44.6 | 44.8 | 45.2 | 45.7 | 46.1 | 46.5 | 46.9 | 47.2 |
| Total Steam Coal Exports 5/ | | | | | | | | | | | | | |
| Australia | 96.7 | 97.1 | 104.0 | 106.4 | 109.0 | 112.3 | 115.9 | 119.6 | 121.8 | 125.4 | 129.0 | 127.8 | 126.7 |
| United States | 25.6 | 23.3 | 19.3 | 19.4 | 18.8 | 18.3 | 17.8 | 17.3 | 16.7 | 16.1 | 15.5 | 14.8 | 14.1 |
| South Africa | 74.3 | 74.7 | 74.0 | 75.4 | 76.7 | 78.0 | 79.0 | 80.0 | 81.0 | 82.0 | 83.0 | 84.2 | 85.3 |
| Former Soviet Union | 23.3 | 25.8 | 25.9 | 26.6 | 26.9 | 27.2 | 27.2 | 27.2 | 28.7 | 29.0 | 29.2 | 29.5 | 29.9 |
| Poland | 14.6 | 18.7 | 17.2 | 15.5 | 13.8 | 12.1 | 11.5 | 10.9 | 10.3 | 9.7 | 9.1 | 8.7 | 8.2 |
| Canada | 5.1 | 3.5 | 4.1 | 4.2 | 4.3 | 4.4 | 4.9 | 5.3 | 5.7 | 6.2 | 6.6 | 6.4 | 6.2 |
| China | 53.0 | 87.5 | 92.2 | 94.5 | 96.9 | 99.2 | 102.1 | 104.9 | 107.8 | 110.7 | 113.5 | 114.4 | 115.3 |
| South America | 46.4 | 49.8 | 53.9 | 56.9 | 59.9 | 62.9 | 64.6 | 66.3 | 67.9 | 69.6 | 71.2 | 73.0 | 74.8 |
| Indonesia 4/ | 59.8 | 63.8 | 61.9 | 64.4 | 67.0 | 69.5 | 71.0 | 72.4 | 73.9 | 75.4 | 76.8 | 78.1 | 79.3 |
| Total | 398.8 | 444.3 | 452.5 | 463.4 | 473.3 | 484.0 | 494.0 | 504.0 | 514.0 | 524.0 | 534.1 | 536.9 | 539.8 |

**Table 112. World Steam Coal Flows By Importing Regions and Exporting Countries 1,2/**
**(Million Short Tons)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Steam Coal Exports to Europe 3/ | | | | | | | | | | | | | | |
| Australia | 10.1 | 10.0 | 9.9 | 9.9 | 9.8 | 8.3 | 9.7 | 7.8 | 5.7 | 3.6 | 2.8 | 2.7 | 2.6 | -5.3% |
| United States | 3.6 | 2.4 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| South Africa | 70.3 | 70.0 | 69.6 | 69.4 | 69.2 | 69.0 | 68.7 | 68.5 | 68.1 | 67.6 | 67.2 | 68.1 | 66.3 | 0.3% |
| Former Soviet Union | 20.8 | 20.8 | 23.5 | 23.3 | 21.4 | 21.1 | 17.7 | 20.6 | 20.7 | 20.8 | 19.4 | 16.0 | 15.4 | -0.8% |
| Poland | 7.7 | 7.2 | 6.7 | 6.5 | 6.2 | 6.0 | 5.8 | 5.5 | 5.3 | 5.1 | 4.9 | 4.6 | 4.4 | -5.7% |
| Canada | 6.0 | 5.8 | 5.5 | 5.4 | 5.3 | 5.2 | 5.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | N/A |
| China | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| South America | 40.6 | 41.9 | 43.1 | 44.6 | 46.0 | 47.4 | 48.9 | 50.3 | 52.1 | 53.8 | 55.5 | 57.2 | 59.0 | 2.9% |
| Indonesia 4/ | 4.2 | 3.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total | 163.3 | 161.6 | 160.1 | 159.1 | 158.0 | 157.0 | 155.8 | 155.0 | 154.0 | 153.0 | 152.0 | 150.9 | 149.8 | -0.3% |
| Steam Coal Exports to Asia | | | | | | | | | | | | | | |
| Australia | 116.5 | 116.5 | 115.2 | 115.9 | 118.2 | 120.5 | 122.9 | 125.2 | 127.6 | 130.1 | 132.5 | 136.3 | 137.4 | 2.0% |
| United States | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 0.6% |
| South Africa | 12.3 | 13.8 | 15.3 | 15.6 | 15.8 | 16.1 | 16.4 | 16.6 | 17.1 | 17.5 | 18.0 | 17.1 | 18.9 | 3.4% |
| Former Soviet Union | 7.2 | 7.3 | 7.4 | 7.5 | 7.6 | 7.7 | 7.8 | 7.9 | 8.0 | 8.2 | 8.3 | 8.4 | 8.5 | 0.7% |
| Poland | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Canada | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| China | 116.2 | 117.1 | 118.0 | 118.6 | 119.3 | 119.9 | 120.6 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 1.7% |
| South America | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Indonesia 4/ | 76.4 | 78.2 | 81.4 | 83.9 | 84.7 | 85.5 | 86.3 | 87.1 | 88.0 | 88.9 | 89.8 | 90.7 | 91.5 | 2.6% |
| Total | 331.8 | 336.1 | 340.4 | 344.6 | 348.8 | 353.0 | 357.2 | 361.4 | 365.2 | 369.1 | 373.0 | 376.9 | 380.8 | 2.0% |
| Steam Coal Exports to America | | | | | | | | | | | | | | |
| Australia | 0.5 | 0.6 | 0.6 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 1.0 | -3.1% |
| United States | 7.4 | 7.3 | 7.2 | 7.1 | 7.1 | 7.0 | 6.9 | 6.9 | 6.8 | 6.7 | 6.7 | 6.6 | 6.5 | -3.1% |
| South Africa | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 2.5% |
| Former Soviet Union | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Poland | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Canada | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| China | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| South America | 36.0 | 36.6 | 37.1 | 37.7 | 38.4 | 39.0 | 39.6 | 40.2 | 40.7 | 41.1 | 41.6 | 42.1 | 42.6 | 3.1% |
| Indonesia 4/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total | 47.7 | 48.3 | 48.8 | 49.4 | 49.9 | 50.5 | 51.1 | 51.7 | 52.1 | 52.5 | 53.0 | 53.4 | 53.9 | 0.8% |
| Total Steam Coal Exports 5/ | | | | | | | | | | | | | | |
| Australia | 127.2 | 127.1 | 125.7 | 126.4 | 128.7 | 129.6 | 133.3 | 133.8 | 134.1 | 134.5 | 136.2 | 139.9 | 140.9 | 1.6% |
| United States | 14.2 | 13.0 | 10.5 | 10.4 | 10.3 | 10.2 | 10.2 | 10.1 | 10.0 | 9.9 | 9.9 | 9.8 | 9.7 | -3.6% |
| South Africa | 86.4 | 87.6 | 88.7 | 88.8 | 88.8 | 88.9 | 88.9 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 89.0 | 0.7% |
| Former Soviet Union | 27.9 | 28.0 | 30.9 | 30.8 | 29.0 | 28.8 | 25.5 | 28.6 | 28.7 | 28.9 | 27.7 | 24.4 | 23.9 | -0.3% |
| Poland | 7.7 | 7.2 | 6.7 | 6.5 | 6.2 | 6.0 | 5.8 | 5.5 | 5.3 | 5.1 | 4.9 | 4.6 | 4.4 | -5.8% |
| Canada | 6.0 | 5.8 | 5.5 | 5.4 | 5.3 | 5.2 | 5.1 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | -1.9% |
| China | 116.2 | 117.1 | 118.0 | 118.6 | 119.3 | 119.9 | 120.6 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 121.3 | 1.4% |
| South America | 76.6 | 78.4 | 80.3 | 82.3 | 84.4 | 86.4 | 88.5 | 90.5 | 92.7 | 94.9 | 97.1 | 99.3 | 101.5 | 3.0% |
| Indonesia 4/ | 80.5 | 81.8 | 83.0 | 83.9 | 84.7 | 85.5 | 86.3 | 87.1 | 88.0 | 88.9 | 89.8 | 90.7 | 91.5 | 1.5% |
| Total | 542.8 | 546.0 | 549.3 | 553.1 | 556.8 | 560.5 | 564.1 | 568.0 | 571.4 | 574.7 | 578.0 | 581.2 | 584.5 | 1.1% |

**Table 112. World Steam Coal Flows By Importing Regions and Exporting Countries 1,2/**
**(Million Short Tons)**

1/ Import Regions:
Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom
Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand
America: Argentina, Brazil, Canada, Chile, Mexico, United States
2/ Excludes non-seaborne shipments of coal to Europe and Asia.
3/ Coal exports to Europe include exports to the Middle East and Northern Africa.
4/ In 2001, steam coal exports from Indonesia include an additional 2.3 million short tons of exports from other countries not included in the forecast period.
5/ In 2001, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2001, the balancing item for steam coal amounted to 2.5 million short tons.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 11, No. 4 (London, United Kingdom, September 2002); Energy Information Administration (EIA), Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002); and Statistics Canada, Coal and Coke Statistics -- December 2001, Catalogue 45-002-XIB, Vol. 80, No. 12 (Ottawa, Canada, March 2002). Projections: AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 113. World Metallurgical Coal Flows By Importing Regions and Exporting Countries 1,2/**
**(Million Short Tons)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metallurgical Coal Exports to Europe 3/ | | | | | | | | | | | | | |
| Australia | 25.7 | 31.4 | 30.2 | 30.6 | 33.3 | 33.8 | 33.7 | 33.6 | 33.6 | 33.5 | 33.5 | 33.3 | 33.1 |
| United States | 21.6 | 15.7 | 11.1 | 10.9 | 10.8 | 10.7 | 10.6 | 10.5 | 10.5 | 10.4 | 10.3 | 8.8 | 9.0 |
| South Africa | 0.4 | 0.7 | 1.5 | 1.5 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| Former Soviet Union | 3.1 | 0.7 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Poland | 3.3 | 2.1 | 2.2 | 1.9 | 1.6 | 1.3 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 |
| Canada | 8.2 | 7.3 | 14.0 | 14.2 | 12.0 | 12.0 | 12.1 | 12.2 | 12.3 | 12.4 | 12.5 | 14.0 | 13.7 |
| China | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South America | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indonesia 4/ | 0.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 63.5 | 58.2 | 59.3 | 59.3 | 59.3 | 59.3 | 59.3 | 59.2 | 59.1 | 59.0 | 58.9 | 58.8 | 58.4 |
| Metallurgical Coal Exports to Asia 5/ | | | | | | | | | | | | | |
| Australia | 76.2 | 78.9 | 83.1 | 83.4 | 83.6 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 83.9 | 84.4 | 84.8 |
| United States | 2.3 | 0.4 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 |
| South Africa | 0.3 | 0.1 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 |
| Former Soviet Union | 3.7 | 2.8 | 3.8 | 3.8 | 3.8 | 3.9 | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 | 4.3 | 4.4 |
| Poland | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Canada | 19.3 | 16.6 | 11.4 | 10.8 | 10.3 | 9.7 | 9.3 | 8.9 | 8.4 | 8.0 | 7.8 | 7.8 | 7.8 |
| China | 7.1 | 11.6 | 13.3 | 13.7 | 14.0 | 14.3 | 14.7 | 15.0 | 15.3 | 15.7 | 15.8 | 15.8 | 15.9 |
| South America | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indonesia 4/ | 10.6 | 13.0 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| Total | 119.6 | 123.4 | 124.8 | 125.0 | 125.1 | 125.2 | 125.2 | 125.2 | 125.2 | 125.2 | 125.2 | 125.7 | 126.3 |
| Metallurgical Coal Exports to America | | | | | | | | | | | | | |
| Australia | 6.6 | 6.6 | 7.9 | 8.1 | 8.4 | 8.6 | 8.8 | 9.0 | 9.2 | 9.4 | 9.5 | 9.8 | 10.1 |
| United States | 8.9 | 9.3 | 9.1 | 8.9 | 8.8 | 8.7 | 8.7 | 8.4 | 8.3 | 8.2 | 8.1 | 6.8 | 6.6 |
| South Africa | 1.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Former Soviet Union | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Poland | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Canada | 3.6 | 5.1 | 6.1 | 6.4 | 6.7 | 6.9 | 7.3 | 8.0 | 8.4 | 8.9 | 9.4 | 11.1 | 11.7 |
| China | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South America | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indonesia 4/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 20.4 | 22.1 | 23.1 | 23.4 | 23.8 | 24.3 | 24.8 | 25.4 | 25.9 | 26.5 | 27.0 | 27.8 | 28.5 |
| Total Metallurgical Coal Exports 6/ | | | | | | | | | | | | | |
| Australia | 109.1 | 117.1 | 121.2 | 122.1 | 125.3 | 126.3 | 126.4 | 126.5 | 126.7 | 126.8 | 127.0 | 127.5 | 128.0 |
| United States | 32.8 | 25.4 | 21.3 | 20.8 | 20.7 | 20.6 | 20.5 | 20.2 | 20.0 | 19.9 | 19.6 | 16.9 | 16.9 |
| South Africa | 2.8 | 1.5 | 1.9 | 1.9 | 1.8 | 1.8 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| Former Soviet Union | 8.0 | 3.6 | 4.0 | 4.0 | 4.1 | 4.1 | 4.2 | 4.3 | 4.3 | 4.4 | 4.5 | 4.6 | 4.6 |
| Poland | 3.0 | 2.1 | 2.2 | 1.9 | 1.6 | 1.3 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 |
| Canada | 32.8 | 30.1 | 31.5 | 31.5 | 29.0 | 28.6 | 28.7 | 29.0 | 29.2 | 29.3 | 29.7 | 32.9 | 33.2 |
| China | 7.4 | 12.7 | 13.3 | 13.7 | 14.0 | 14.3 | 14.7 | 15.0 | 15.3 | 15.7 | 15.8 | 15.8 | 15.9 |
| South America | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indonesia 4/ | 11.2 | 13.1 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| Total | 204.7 | 205.7 | 207.3 | 207.7 | 208.3 | 208.8 | 209.3 | 209.7 | 210.2 | 210.7 | 211.1 | 212.3 | 213.1 |

**Table 113. World Metallurgical Coal Flows By Importing Regions and Exporting Countries 1,2/**
**(Million Short Tons)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Metallurgical Coal Exports to Europe 3/ | | | | | | | | | | | | | | |
| Australia | 32.9 | 32.7 | 32.5 | 32.4 | 32.3 | 32.2 | 32.1 | 32.0 | 31.9 | 31.9 | 31.8 | 32.2 | 32.2 | 0.1% |
| United States | 9.4 | 9.8 | 9.9 | 9.5 | 9.5 | 9.3 | 9.1 | 8.9 | 9.0 | 9.0 | 9.0 | 8.7 | 8.7 | -2.4% |
| South Africa | 1.3 | 1.3 | 1.3 | 1.2 | 1.1 | 1.1 | 1.0 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.4% |
| Former Soviet Union | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | -4.7% |
| Poland | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | -5.4% |
| Canada | 13.1 | 12.5 | 12.1 | 11.0 | 10.8 | 10.8 | 10.7 | 10.7 | 10.6 | 10.4 | 10.2 | 10.1 | 9.9 | 1.3% |
| China | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.9 | 2.1 | 2.3 | 2.4 | 9.1% |
| South America | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Indonesia 4/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total | 58.0 | 57.6 | 57.3 | 56.9 | 56.5 | 56.1 | 55.7 | 55.3 | 55.2 | 55.1 | 55.0 | 54.9 | 54.8 | -0.2% |
| Metallurgical Coal Exports to Asia 5/ | | | | | | | | | | | | | | |
| Australia | 85.2 | 85.6 | 86.0 | 86.3 | 86.6 | 86.9 | 87.2 | 87.6 | 88.1 | 88.7 | 89.2 | 89.8 | 90.3 | 0.6% |
| United States | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 5.8% |
| South Africa | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 5.2% |
| Former Soviet Union | 4.4 | 4.5 | 4.5 | 4.6 | 4.6 | 4.7 | 4.7 | 4.7 | 4.8 | 4.8 | 4.9 | 4.9 | 5.0 | 2.4% |
| Poland | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Canada | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | -3.1% |
| China | 15.9 | 15.9 | 16.0 | 16.0 | 16.0 | 16.0 | 16.1 | 16.1 | 16.1 | 16.2 | 16.2 | 16.3 | 16.3 | 1.4% |
| South America | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Indonesia 4/ | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | -0.4% |
| Total | 126.8 | 127.3 | 127.8 | 128.2 | 128.6 | 129.1 | 129.5 | 129.9 | 130.5 | 131.1 | 131.8 | 132.4 | 133.1 | 0.3% |
| Metallurgical Coal Exports to America | | | | | | | | | | | | | | |
| Australia | 10.4 | 10.7 | 11.0 | 11.2 | 11.4 | 11.7 | 11.9 | 12.1 | 14.1 | 14.5 | 14.5 | 14.5 | 14.5 | 3.3% |
| United States | 6.6 | 6.6 | 6.8 | 6.3 | 6.6 | 7.1 | 7.6 | 8.0 | 6.3 | 5.9 | 6.0 | 6.0 | 6.0 | -1.8% |
| South Africa | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Former Soviet Union | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Poland | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Canada | 12.1 | 12.5 | 12.6 | 13.5 | 13.5 | 13.3 | 13.1 | 12.9 | 12.8 | 12.8 | 12.7 | 12.7 | 12.6 | 3.8% |
| China | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| South America | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Indonesia 4/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total | 29.1 | 29.7 | 30.4 | 31.0 | 31.5 | 32.0 | 32.6 | 33.1 | 33.3 | 33.3 | 33.2 | 33.2 | 33.2 | 1.7% |
| Total Metallurgical Coal Exports 6/ | | | | | | | | | | | | | | |
| Australia | 128.5 | 129.0 | 129.5 | 130.0 | 130.4 | 130.8 | 131.2 | 131.6 | 134.1 | 135.1 | 135.6 | 136.6 | 137.1 | 0.7% |
| United States | 17.3 | 17.7 | 18.1 | 17.2 | 17.5 | 17.8 | 18.1 | 18.4 | 16.7 | 16.4 | 16.5 | 16.2 | 16.3 | -1.8% |
| South Africa | 1.7 | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.4 | 1.3 | 1.3 | 1.2 | 1.2 | 1.1 | 1.1 | -1.3% |
| Former Soviet Union | 4.7 | 4.7 | 4.7 | 4.8 | 4.8 | 4.9 | 4.9 | 5.0 | 5.0 | 5.0 | 5.1 | 5.1 | 5.2 | 1.5% |
| Poland | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | -5.4% |
| Canada | 33.0 | 32.7 | 32.5 | 32.3 | 32.1 | 31.9 | 31.6 | 31.4 | 31.2 | 31.0 | 30.8 | 30.5 | 30.3 | 0.0% |
| China | 15.9 | 15.9 | 16.0 | 17.4 | 17.4 | 17.5 | 17.6 | 17.6 | 17.9 | 18.1 | 18.3 | 18.5 | 18.7 | 1.6% |
| South America | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Indonesia 4/ | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | -0.4% |
| Total | 213.9 | 214.7 | 215.4 | 216.1 | 216.7 | 217.2 | 217.7 | 218.3 | 219.0 | 219.5 | 220.0 | 220.5 | 221.0 | 0.3% |

**Table 113. World Metallurgical Coal Flows By Importing Regions and Exporting Countries 1,2/**
**(Million Short Tons)**

1/ Import Regions:
Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom
Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand
America: Argentina, Brazil, Canada, Chile, Mexico, United States
2/ Excludes non-seaborne shipments of coal to Europe and Asia.
3/ Coal exports to Europe include exports to the Middle East and Northern Africa.
4/ In 2001, metallurgical coal exports from Indonesia include an additional 1.3 million short tons of exports from other countries not included in the forecast period.
5/ For 2001, includes 12.0 million short tons of coal for pulverized coal injection at blast furnaces shipped to Japanese steelmakers.
6/ In 2001, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2001, the balancing item for metallurgical coal amounted to 1.9 million short tons.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 11, No. 4 (London, United Kingdom, September 2002); Energy Information Administration (EIA), Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002); and Statistics Canada, Coal and Coke Statistics -- December 2001, Catalogue 45-002-XIB, Vol. 80, No. 12 (Ottawa, Canada, March 2002); and International Energy Agency, Coal Information 2002 (Paris, France, July 2002), web site www.iea.org.
Projections: AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 114. World Total Coal Flows By Importing Regions and Exporting Countries 1,2/**
**(Million Short Tons)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Coal Exports to Europe 3/ | | | | | | | | | | | | | |
| Australia | 39.5 | 40.9 | 40.9 | 41.1 | 43.7 | 44.0 | 43.6 | 43.7 | 43.7 | 43.8 | 43.8 | 43.5 | 43.3 |
| United States | 27.4 | 22.1 | 15.1 | 15.3 | 15.6 | 15.5 | 15.9 | 15.9 | 14.9 | 14.9 | 14.7 | 12.8 | 12.4 |
| South Africa | 56.0 | 63.1 | 71.9 | 70.4 | 69.4 | 68.7 | 69.2 | 70.1 | 71.0 | 71.9 | 72.7 | 72.4 | 72.0 |
| Former Soviet Union | 21.5 | 19.2 | 19.3 | 20.0 | 20.3 | 20.6 | 20.6 | 20.6 | 22.1 | 22.4 | 22.6 | 22.8 | 23.0 |
| Poland | 19.0 | 20.2 | 19.5 | 17.5 | 15.5 | 13.4 | 12.8 | 12.2 | 11.5 | 10.9 | 10.3 | 9.8 | 9.3 |
| Canada | 8.5 | 7.3 | 18.1 | 18.4 | 16.3 | 16.4 | 16.9 | 17.5 | 18.0 | 18.6 | 19.1 | 20.4 | 19.8 |
| China | 3.5 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South America | 30.8 | 29.5 | 27.4 | 28.9 | 30.3 | 32.0 | 32.6 | 33.4 | 35.2 | 35.9 | 36.9 | 38.1 | 39.4 |
| Indonesia 4/ | 5.0 | 12.1 | 10.4 | 11.2 | 11.9 | 12.7 | 12.5 | 11.8 | 9.4 | 8.5 | 7.6 | 5.9 | 4.2 |
| Total | 211.2 | 220.0 | 222.6 | 222.8 | 223.0 | 223.3 | 224.3 | 225.1 | 225.9 | 226.8 | 227.6 | 225.7 | 223.5 |
| Total Coal Exports to Asia | | | | | | | | | | | | | |
| Australia | 159.4 | 164.1 | 176.1 | 179.0 | 182.0 | 185.7 | 189.6 | 193.2 | 195.3 | 198.7 | 202.2 | 201.5 | 200.8 |
| United States | 6.6 | 3.2 | 3.8 | 3.9 | 4.3 | 4.3 | 4.3 | 4.4 | 4.4 | 4.4 | 4.5 | 4.5 | 4.5 |
| South Africa | 14.7 | 8.6 | 1.1 | 3.9 | 6.2 | 8.1 | 8.4 | 8.3 | 8.3 | 8.2 | 8.1 | 9.6 | 11.1 |
| Former Soviet Union | 9.7 | 9.9 | 10.6 | 10.6 | 10.6 | 10.7 | 10.8 | 10.9 | 11.0 | 11.0 | 11.1 | 11.3 | 11.4 |
| Poland | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Canada | 22.6 | 18.9 | 11.4 | 10.8 | 10.3 | 9.7 | 9.3 | 8.9 | 8.4 | 8.0 | 7.8 | 7.8 | 7.8 |
| China | 60.9 | 92.0 | 105.5 | 108.2 | 110.9 | 113.5 | 116.7 | 119.9 | 123.1 | 126.3 | 129.3 | 130.2 | 131.2 |
| South America | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Indonesia 4/ | 57.1 | 62.5 | 63.2 | 65.0 | 66.8 | 68.6 | 70.3 | 72.5 | 76.2 | 78.7 | 81.0 | 84.0 | 86.9 |
| Total | 331.1 | 359.2 | 371.8 | 381.4 | 391.1 | 400.7 | 409.4 | 418.0 | 426.7 | 435.4 | 444.0 | 448.9 | 453.7 |
| Total Coal Exports to America | | | | | | | | | | | | | |
| Australia | 8.9 | 8.6 | 8.2 | 8.4 | 8.6 | 8.8 | 9.1 | 9.3 | 9.5 | 9.8 | 10.0 | 10.3 | 10.6 |
| United States | 24.3 | 23.3 | 21.7 | 21.1 | 19.7 | 19.1 | 18.1 | 17.2 | 17.5 | 16.6 | 16.0 | 14.5 | 14.1 |
| South Africa | 2.3 | 2.4 | 2.9 | 2.9 | 2.9 | 3.0 | 3.1 | 3.3 | 3.5 | 3.7 | 3.8 | 3.8 | 3.8 |
| Former Soviet Union | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Poland | 0.1 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Canada | 4.3 | 6.2 | 6.1 | 6.4 | 6.7 | 6.9 | 7.3 | 8.0 | 8.4 | 8.9 | 9.4 | 11.1 | 11.7 |
| China | 0.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| South America | 15.1 | 20.4 | 26.5 | 28.1 | 29.6 | 31.0 | 32.0 | 32.8 | 32.7 | 33.6 | 34.3 | 34.9 | 35.4 |
| Indonesia 4/ | 2.4 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 57.9 | 66.4 | 65.4 | 66.9 | 67.5 | 68.8 | 69.6 | 70.6 | 71.7 | 72.5 | 73.5 | 74.7 | 75.7 |
| Total Coal Exports 5/ | | | | | | | | | | | | | |
| Australia | 205.8 | 214.2 | 225.2 | 228.5 | 234.3 | 238.5 | 242.3 | 246.1 | 248.5 | 252.2 | 255.9 | 255.3 | 254.7 |
| United States | 58.4 | 48.7 | 40.6 | 40.3 | 39.6 | 38.9 | 38.3 | 37.5 | 36.8 | 36.0 | 35.1 | 31.8 | 31.0 |
| South Africa | 77.1 | 76.2 | 75.9 | 77.2 | 78.5 | 79.8 | 80.8 | 81.8 | 82.7 | 83.7 | 84.7 | 85.8 | 87.0 |
| Former Soviet Union | 31.3 | 29.4 | 29.9 | 30.6 | 31.0 | 31.3 | 31.4 | 31.4 | 33.1 | 33.4 | 33.7 | 34.1 | 34.5 |
| Poland | 17.6 | 20.8 | 19.5 | 17.5 | 15.5 | 13.4 | 12.8 | 12.2 | 11.5 | 10.9 | 10.3 | 9.8 | 9.3 |
| Canada | 37.9 | 33.6 | 35.6 | 35.6 | 33.3 | 33.1 | 33.6 | 34.3 | 34.9 | 35.5 | 36.3 | 39.3 | 39.4 |
| China | 60.4 | 100.2 | 105.5 | 108.2 | 110.9 | 113.5 | 116.7 | 119.9 | 123.1 | 126.3 | 129.3 | 130.2 | 131.2 |
| South America | 47.1 | 49.8 | 53.9 | 56.9 | 59.9 | 62.9 | 64.6 | 66.3 | 67.9 | 69.6 | 71.2 | 73.0 | 74.8 |
| Indonesia 4/ | 71.0 | 76.9 | 73.7 | 76.2 | 78.8 | 81.3 | 82.8 | 84.2 | 85.7 | 87.2 | 88.6 | 89.9 | 91.1 |
| Total | 603.5 | 650.0 | 659.7 | 671.1 | 681.6 | 692.8 | 703.2 | 713.7 | 724.2 | 734.7 | 745.2 | 749.2 | 752.9 |

**Table 114. World Total Coal Flows By Importing Regions and Exporting Countries 1,2/**
**(Million Short Tons)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Coal Exports to Europe 3/ | | | | | | | | | | | | | | |
| Australia | 43.0 | 42.7 | 42.4 | 42.3 | 42.1 | 40.5 | 41.8 | 39.8 | 37.6 | 35.5 | 34.7 | 34.9 | 34.7 | -0.7% |
| United States | 13.0 | 12.2 | 10.0 | 9.5 | 9.5 | 9.3 | 9.1 | 8.9 | 9.0 | 9.0 | 9.0 | 8.7 | 8.7 | -3.8% |
| South Africa | 71.7 | 71.3 | 71.0 | 70.7 | 70.3 | 70.0 | 69.7 | 69.4 | 68.9 | 68.4 | 68.0 | 68.8 | 67.0 | 0.3% |
| Former Soviet Union | 21.0 | 21.0 | 23.7 | 23.5 | 21.7 | 21.3 | 17.9 | 20.8 | 20.9 | 21.0 | 19.6 | 16.3 | 15.7 | -0.8% |
| Poland | 8.8 | 8.3 | 7.8 | 7.6 | 7.3 | 7.1 | 6.9 | 6.6 | 6.3 | 6.0 | 5.6 | 5.3 | 5.0 | -5.7% |
| Canada | 19.0 | 18.2 | 17.7 | 16.4 | 16.1 | 16.0 | 15.8 | 12.9 | 12.8 | 12.6 | 12.4 | 12.3 | 12.1 | 2.1% |
| China | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.5 | 1.5 | 1.6 | 1.7 | 1.9 | 2.1 | 2.3 | 2.4 | -3.4% |
| South America | 40.6 | 41.9 | 43.1 | 44.6 | 46.0 | 47.4 | 48.9 | 50.3 | 52.1 | 53.8 | 55.5 | 57.2 | 59.0 | 2.9% |
| Indonesia 4/ | 4.2 | 3.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total | 221.3 | 219.2 | 217.4 | 216.0 | 214.5 | 213.1 | 211.6 | 210.3 | 209.2 | 208.1 | 207.0 | 205.8 | 204.7 | -0.3% |
| Total Coal Exports to Asia | | | | | | | | | | | | | | |
| Australia | 201.7 | 202.1 | 201.2 | 202.2 | 204.9 | 207.5 | 210.1 | 212.7 | 215.7 | 218.7 | 221.7 | 226.1 | 227.7 | 1.4% |
| United States | 4.5 | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 1.7% |
| South Africa | 12.6 | 14.1 | 15.6 | 15.9 | 16.2 | 16.5 | 16.8 | 17.1 | 17.5 | 18.0 | 18.4 | 17.4 | 19.2 | 3.4% |
| Former Soviet Union | 11.6 | 11.8 | 11.9 | 12.1 | 12.2 | 12.4 | 12.5 | 12.7 | 12.8 | 13.0 | 13.1 | 13.3 | 13.4 | 1.3% |
| Poland | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Canada | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | -3.6% |
| China | 132.1 | 133.0 | 133.9 | 134.6 | 135.3 | 136.0 | 136.7 | 137.3 | 137.4 | 137.4 | 137.5 | 137.5 | 137.6 | 1.7% |
| South America | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Indonesia 4/ | 88.2 | 90.0 | 93.2 | 95.6 | 96.5 | 97.3 | 98.1 | 98.9 | 99.8 | 100.7 | 101.6 | 102.5 | 103.3 | 2.1% |
| Total | 458.6 | 463.4 | 468.2 | 472.9 | 477.5 | 482.1 | 486.6 | 491.2 | 495.8 | 500.3 | 504.8 | 509.3 | 513.8 | 1.5% |
| Total Coal Exports to America | | | | | | | | | | | | | | |
| Australia | 11.0 | 11.3 | 11.6 | 11.9 | 12.1 | 12.4 | 12.7 | 12.9 | 14.9 | 15.4 | 15.4 | 15.5 | 15.5 | 2.5% |
| United States | 14.0 | 13.9 | 14.0 | 13.5 | 13.7 | 14.1 | 14.5 | 14.9 | 13.1 | 12.7 | 12.6 | 12.6 | 12.5 | -2.5% |
| South Africa | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 2.0% |
| Former Soviet Union | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Poland | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Canada | 12.1 | 12.5 | 12.6 | 13.5 | 13.5 | 13.3 | 13.1 | 12.9 | 12.8 | 12.8 | 12.7 | 12.7 | 12.6 | 3.0% |
| China | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| South America | 36.0 | 36.6 | 37.1 | 37.7 | 38.4 | 39.0 | 39.6 | 40.2 | 40.7 | 41.1 | 41.6 | 42.1 | 42.6 | 3.1% |
| Indonesia 4/ | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | N/A |
| Total | 76.8 | 78.0 | 79.1 | 80.3 | 81.5 | 82.6 | 83.7 | 84.8 | 85.4 | 85.8 | 86.2 | 86.6 | 87.0 | 1.1% |
| Total Coal Exports 5/ | | | | | | | | | | | | | | |
| Australia | 255.7 | 256.1 | 255.2 | 256.4 | 259.1 | 260.4 | 264.5 | 265.4 | 268.3 | 269.6 | 271.8 | 276.5 | 278.0 | 1.1% |
| United States | 31.5 | 30.7 | 28.6 | 27.6 | 27.8 | 28.1 | 28.3 | 28.5 | 26.8 | 26.4 | 26.4 | 26.0 | 26.0 | -2.6% |
| South Africa | 88.1 | 89.2 | 90.4 | 90.4 | 90.4 | 90.3 | 90.3 | 90.3 | 90.2 | 90.2 | 90.2 | 90.1 | 90.1 | 0.7% |
| Former Soviet Union | 32.6 | 32.7 | 35.6 | 35.6 | 33.9 | 33.6 | 30.4 | 33.5 | 33.8 | 34.0 | 32.8 | 29.6 | 29.1 | 0.0% |
| Poland | 8.8 | 8.3 | 7.8 | 7.6 | 7.3 | 7.1 | 6.9 | 6.6 | 6.3 | 6.0 | 5.6 | 5.3 | 5.0 | -5.8% |
| Canada | 38.9 | 38.5 | 38.1 | 37.7 | 37.4 | 37.1 | 36.7 | 33.6 | 33.4 | 33.2 | 33.0 | 32.7 | 32.5 | -0.1% |
| China | 132.1 | 133.0 | 134.0 | 136.0 | 136.7 | 137.4 | 138.2 | 138.9 | 139.1 | 139.3 | 139.6 | 139.8 | 140.0 | 1.4% |
| South America | 76.6 | 78.4 | 80.3 | 82.3 | 84.4 | 86.4 | 88.5 | 90.5 | 92.7 | 94.9 | 97.1 | 99.3 | 101.5 | 3.0% |
| Indonesia 4/ | 92.3 | 93.6 | 94.8 | 95.6 | 96.5 | 97.3 | 98.1 | 98.9 | 99.8 | 100.7 | 101.6 | 102.5 | 103.3 | 1.2% |
| Total | 756.7 | 760.6 | 764.8 | 769.2 | 773.4 | 777.7 | 781.9 | 786.3 | 790.4 | 794.2 | 798.0 | 801.7 | 805.5 | 0.9% |

**Table 114. World Total Coal Flows By Importing Regions and Exporting Countries 1,2/**
**(Million Short Tons)**

1/ Import Regions:
Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom
Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand
America: Argentina, Brazil, Canada, Chile, Mexico, United States
2/ Excludes non-seaborne shipments of coal to Europe and Asia.
3/ Coal exports to Europe include exports to the Middle East and Northern Africa.
4/ In 2001, exports from Indonesia include an additional 3.6 million short tons of exports from other countries not included in the forecast period.
5/ In 2001, total world coal flows include a balancing item term used to reconcile discrepancies between reported exports and imports. For 2001, the balancing item amounted to 4.4 million short tons.
Note: Totals may not equal sum of components due to independent rounding.
Sources: 2001 data: SSY Consultancy and Research Ltd, SSY's Coal Trade Forecast, Vol. 11, No. 4 (London, United Kingdom, September 2002); Energy Information Administration (EIA), Quarterly Coal Report, October-December 2001, DOE/EIA-0121(2001/4Q) (Washington, DC, May 2002); and Statistics Canada, Coal and Coke Statistics -- December 2001, Catalogue 45-002-XIB, Vol. 80, No. 12 (Ottawa, Canada, March 2002). Projections: AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 115. Coal Prices by Region and Type**
**(2001 Dollars per Short Ton)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Northern Appalachia | 25.62 | 24.66 | 24.31 | 24.21 | 23.67 | 23.82 | 23.67 | 23.21 | 22.54 | 22.28 | 22.07 | 21.89 | 21.66 |
| Medium Sulfur (Premium) 1/ | 36.45 | 35.20 | 31.42 | 31.58 | 31.26 | 30.95 | 30.49 | 30.34 | 30.19 | 29.89 | 29.89 | 29.59 | 29.59 |
| Low Sulfur (Bituminous) 2/ | 48.82 | 47.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Medium Sulfur (Bituminous) 2/ | 27.10 | 26.16 | 25.91 | 25.97 | 25.37 | 25.33 | 25.26 | 24.86 | 24.16 | 23.90 | 23.71 | 23.51 | 23.28 |
| High Sulfur (Bituminous) | 25.03 | 24.16 | 24.26 | 23.93 | 23.39 | 23.80 | 23.50 | 22.90 | 22.14 | 21.91 | 21.68 | 21.47 | 21.21 |
| High Sulfur (Gob) 3/ | 12.79 | 12.34 | 13.54 | 13.75 | 13.75 | 13.62 | 13.41 | 13.22 | 13.15 | 13.02 | 13.02 | 13.02 | 13.02 |
| Central Appalachia | 26.24 | 28.16 | 27.79 | 27.58 | 27.25 | 26.86 | 26.76 | 26.65 | 26.36 | 26.13 | 25.88 | 25.84 | 25.65 |
| Medium Sulfur (Premium) 1/ | 27.93 | 30.08 | 27.36 | 27.22 | 26.95 | 26.42 | 26.29 | 25.97 | 25.58 | 25.33 | 25.15 | 24.74 | 24.80 |
| Low Sulfur (Bituminous) | 25.99 | 27.98 | 27.20 | 27.47 | 27.26 | 26.98 | 26.89 | 26.50 | 26.20 | 26.00 | 25.85 | 26.31 | 26.43 |
| Medium Sulfur (Bituminous) | 25.80 | 27.77 | 28.13 | 27.71 | 27.32 | 26.90 | 26.81 | 26.86 | 26.60 | 26.36 | 26.05 | 25.82 | 25.42 |
| Southern Appalachia | 33.51 | 33.63 | 30.79 | 31.09 | 31.01 | 31.08 | 30.97 | 30.59 | 30.34 | 30.19 | 29.98 | 29.55 | 29.32 |
| Low Sulfur (Premium) 1/ | 37.30 | 37.56 | 35.26 | 35.08 | 35.08 | 34.74 | 34.56 | 34.05 | 33.88 | 33.88 | 33.59 | 32.70 | 32.66 |
| Low Sulfur (Bituminous) | 32.39 | 32.61 | 25.74 | 26.23 | 25.87 | 25.57 | 25.72 | 25.62 | 25.52 | 25.29 | 25.73 | 26.18 | 26.28 |
| Medium Sulfur (Bituminous) | 31.43 | 31.64 | 29.27 | 29.89 | 29.83 | 30.32 | 30.26 | 30.05 | 29.75 | 29.55 | 29.35 | 29.13 | 28.68 |
| Eastern Interior | W | W | 22.48 | 22.28 | 21.97 | 21.96 | 21.82 | 21.39 | 21.18 | 20.87 | 20.64 | 20.33 | 20.12 |
| Medium Sulfur (Bituminous) | 22.52 | 22.59 | 22.56 | 22.88 | 22.38 | 21.99 | 22.06 | 21.90 | 21.70 | 21.51 | 21.36 | 21.14 | 20.71 |
| High Sulfur (Bituminous) | 21.55 | 21.62 | 22.60 | 22.39 | 22.20 | 22.37 | 22.14 | 21.59 | 21.40 | 21.05 | 20.81 | 20.46 | 20.33 |
| Medium Sulfur (Lignite) | W | W | 8.11 | 12.94 | 12.81 | 12.73 | 12.68 | 12.45 | 12.25 | 12.15 | 11.83 | 11.74 | 11.53 |
| Western Interior High Sulfur (Bituminous) | 26.75 | 26.88 | 27.36 | 27.86 | 27.88 | 28.61 | 28.36 | 28.01 | 27.65 | 27.49 | 27.07 | 26.62 | 26.03 |
| Gulf | 13.61 | 16.43 | 13.85 | 13.67 | 13.95 | 14.02 | 13.83 | 13.76 | 13.57 | 13.56 | 13.01 | 12.60 | 12.47 |
| Medium Sulfur (Lignite) | 14.54 | 17.55 | 14.33 | 14.19 | 14.48 | 14.57 | 14.36 | 14.31 | 14.10 | 14.10 | 13.55 | 13.14 | 13.03 |
| High Sulfur (Lignite) | 11.57 | 13.96 | 13.16 | 12.97 | 13.22 | 13.24 | 13.04 | 12.98 | 12.77 | 12.78 | 12.17 | 11.70 | 11.52 |
| Dakota Medium Sulfur (Lignite) | 8.62 | 8.53 | 8.95 | 8.82 | 8.69 | 8.52 | 8.40 | 8.28 | 8.15 | 8.07 | 8.00 | 8.00 | 7.92 |
| Powder/Green River | W | 6.10 | 6.15 | 6.02 | 5.89 | 5.74 | 5.71 | 5.65 | 5.61 | 5.56 | 5.60 | 5.65 | 5.70 |
| Low Sulfur (Bituminous) | W | 0.00 | 16.52 | 16.43 | 16.35 | 16.26 | 22.50 | 22.31 | 22.16 | 21.97 | 20.56 | 20.36 | 20.56 |
| Low Sulfur (Sub-Bituminous) | 5.83 | 5.97 | 6.02 | 5.86 | 5.75 | 5.62 | 5.54 | 5.50 | 5.47 | 5.42 | 5.47 | 5.53 | 5.58 |
| Medium Sulfur (Sub-Bituminous) | 7.39 | 7.57 | 7.62 | 7.64 | 7.49 | 7.27 | 7.16 | 7.06 | 6.96 | 6.96 | 6.96 | 6.96 | 6.89 |
| Rocky Mountain | 17.89 | 18.44 | 17.86 | 17.77 | 17.61 | 17.17 | 16.89 | 16.75 | 16.36 | 16.32 | 16.18 | 16.32 | 16.58 |
| Low Sulfur (Bituminous) | W | W | 17.44 | 17.43 | 17.09 | 16.61 | 16.37 | 16.29 | 15.88 | 15.88 | 15.72 | 15.91 | 16.28 |
| Low Sulfur (Sub-Bituminous) | W | W | 20.11 | 19.82 | 20.50 | 20.30 | 20.00 | 19.70 | 19.41 | 19.22 | 19.22 | 19.22 | 19.02 |
| Arizona/New Mexico | W | W | 20.61 | 20.72 | 20.48 | 20.23 | 20.01 | 19.79 | 19.64 | 19.52 | 19.47 | 19.41 | 19.40 |
| Low Sulfur (Bituminous) | W | W | 20.57 | 20.57 | 20.63 | 20.43 | 20.17 | 20.05 | 19.75 | 19.60 | 19.60 | 19.47 | 19.63 |
| Medium Sulfur (Bituminous) | W | W | 23.71 | 25.23 | 24.00 | 23.52 | 23.18 | 22.83 | 22.72 | 22.72 | 22.49 | 22.49 | 22.49 |
| Medium Sulfur (Sub-Bituminous) | W | W | 19.91 | 18.05 | 18.05 | 17.88 | 17.79 | 17.52 | 17.61 | 17.44 | 17.44 | 17.44 | 17.09 |
| Washington/Alaska | | | | | | | | | | | | | |
| Medium Sulfur (Sub-Bituminous) | W | W | 27.84 | 27.70 | 27.71 | 27.43 | 27.30 | 27.16 | 27.03 | 27.02 | 27.02 | 27.02 | 27.02 |

**Table 115. Coal Prices by Region and Type**
**(2001 Dollars per Short Ton)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average by Type: All Regions | | | | | | | | | | | | | |
| Premium Metallurgical 1/ | 29.70 | 31.49 | 28.78 | 28.67 | 28.44 | 27.95 | 27.79 | 27.46 | 27.12 | 26.91 | 26.72 | 26.24 | 26.28 |
| Bituminous | 24.53 | 25.19 | 25.02 | 24.85 | 24.46 | 24.27 | 24.12 | 23.87 | 23.54 | 23.29 | 23.08 | 22.97 | 22.72 |
| Sub-Bituminous | 7.37 | 7.48 | 7.20 | 6.92 | 6.84 | 6.68 | 6.56 | 6.45 | 6.38 | 6.29 | 6.30 | 6.32 | 6.33 |
| Lignite | 11.86 | 13.25 | 12.08 | 12.05 | 12.25 | 12.27 | 12.10 | 12.00 | 11.82 | 11.77 | 11.32 | 11.01 | 10.88 |
| Low Sulfur | 11.26 | 11.60 | 10.90 | 10.97 | 10.87 | 10.64 | 10.51 | 10.28 | 10.04 | 9.84 | 9.65 | 9.76 | 9.91 |
| Medium Sulfur | 22.59 | 23.57 | 22.96 | 22.69 | 22.34 | 22.18 | 22.15 | 22.12 | 21.85 | 21.66 | 21.40 | 21.17 | 20.90 |
| High Sulfur | 21.36 | 21.36 | 21.47 | 21.19 | 20.85 | 21.17 | 20.96 | 20.43 | 20.02 | 19.75 | 19.60 | 19.41 | 19.25 |
| U.S. Average | 17.18 | 17.59 | 17.01 | 16.91 | 16.60 | 16.50 | 16.34 | 16.05 | 15.68 | 15.37 | 14.99 | 14.78 | 14.60 |

**Table 115. Coal Prices by Region and Type**
**(2001 Dollars per Short Ton)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Northern Appalachia | 21.67 | 21.65 | 21.54 | 21.62 | 21.55 | 21.77 | 21.80 | 21.78 | 21.75 | 21.88 | 21.88 | 22.03 | 22.13 | -0.4% |
| Medium Sulfur (Premium) 1/ | 29.59 | 29.59 | 29.44 | 29.59 | 29.44 | 29.59 | 29.44 | 29.58 | 29.44 | 29.58 | 29.58 | 29.58 | 29.43 | -0.7% |
| Low Sulfur (Bituminous) 2/ | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A |
| Medium Sulfur (Bituminous) 2/ | 23.27 | 23.22 | 23.09 | 23.17 | 23.05 | 23.25 | 23.30 | 23.24 | 23.20 | 23.32 | 23.30 | 23.55 | 23.78 | -0.4% |
| High Sulfur (Bituminous) | 21.26 | 21.27 | 21.16 | 21.27 | 21.20 | 21.43 | 21.48 | 21.45 | 21.43 | 21.56 | 21.56 | 21.59 | 21.50 | -0.5% |
| High Sulfur (Gob) 3/ | 13.02 | 13.02 | 13.09 | 13.15 | 13.22 | 13.29 | 13.35 | 13.42 | 13.35 | 13.42 | 13.42 | 13.42 | 13.49 | 0.4% |
| Central Appalachia | 25.90 | 25.88 | 26.09 | 26.06 | 26.00 | 26.13 | 26.14 | 25.99 | 25.81 | 25.87 | 25.78 | 25.98 | 26.09 | -0.3% |
| Medium Sulfur (Premium) 1/ | 24.86 | 24.94 | 24.82 | 24.70 | 24.62 | 24.74 | 24.62 | 24.74 | 24.16 | 24.09 | 24.02 | 24.07 | 23.95 | -0.9% |
| Low Sulfur (Bituminous) | 26.40 | 26.32 | 26.33 | 26.23 | 26.08 | 26.21 | 26.25 | 26.07 | 25.93 | 26.01 | 25.91 | 26.13 | 26.27 | -0.3% |
| Medium Sulfur (Bituminous) | 25.85 | 25.86 | 26.22 | 26.22 | 26.22 | 26.34 | 26.37 | 26.18 | 26.04 | 26.12 | 26.02 | 26.22 | 26.35 | -0.2% |
| Southern Appalachia | 29.29 | 29.22 | 29.16 | 28.95 | 28.80 | 28.70 | 28.52 | 28.33 | 28.00 | 27.90 | 27.78 | 27.71 | 27.61 | -0.8% |
| Low Sulfur (Premium) 1/ | 32.63 | 32.59 | 32.40 | 32.08 | 31.92 | 31.91 | 31.63 | 31.60 | 30.94 | 30.79 | 30.62 | 30.59 | 30.38 | -0.9% |
| Low Sulfur (Bituminous) | 26.26 | 26.19 | 26.20 | 26.11 | 25.96 | 25.74 | 25.63 | 25.35 | 25.13 | 25.05 | 24.88 | 24.77 | 24.53 | -1.2% |
| Medium Sulfur (Bituminous) | 28.66 | 28.56 | 28.53 | 28.40 | 28.23 | 28.09 | 27.92 | 27.65 | 27.50 | 27.45 | 27.34 | 27.30 | 27.28 | -0.6% |
| Eastern Interior | 20.24 | 20.25 | 20.30 | 20.34 | 20.24 | 20.32 | 20.26 | 20.18 | 20.13 | 20.18 | 20.16 | 20.16 | 20.05 | W |
| Medium Sulfur (Bituminous) | 21.22 | 21.28 | 21.52 | 21.63 | 21.63 | 21.51 | 21.38 | 21.22 | 21.15 | 21.10 | 21.04 | 20.98 | 20.83 | -0.3% |
| High Sulfur (Bituminous) | 20.24 | 20.23 | 20.12 | 20.09 | 19.91 | 20.13 | 20.10 | 20.08 | 20.04 | 20.14 | 20.14 | 20.15 | 20.04 | -0.3% |
| Medium Sulfur (Lignite) | 11.72 | 11.73 | 11.80 | 11.82 | 11.78 | 11.84 | 11.81 | 11.75 | 11.72 | 11.74 | 11.69 | 11.62 | 11.54 | W |
| Western Interior High Sulfur (Bituminous) | 25.97 | 25.89 | 25.75 | 25.65 | 25.45 | 25.21 | 24.92 | 24.66 | 24.57 | 24.45 | 24.37 | 24.18 | 24.09 | -0.5% |
| Gulf | 12.38 | 12.32 | 12.30 | 12.38 | 12.40 | 12.35 | 12.19 | 12.17 | 12.19 | 12.17 | 12.17 | 12.13 | 12.10 | -1.3% |
| Medium Sulfur (Lignite) | 12.91 | 12.83 | 12.81 | 12.88 | 12.89 | 12.84 | 12.68 | 12.64 | 12.66 | 12.63 | 12.62 | 12.58 | 12.55 | -1.4% |
| High Sulfur (Lignite) | 11.48 | 11.44 | 11.47 | 11.58 | 11.62 | 11.59 | 11.45 | 11.44 | 11.47 | 11.46 | 11.47 | 11.44 | 11.43 | -0.8% |
| Dakota Medium Sulfur (Lignite) | 7.92 | 7.92 | 7.96 | 7.92 | 7.96 | 8.00 | 8.04 | 8.08 | 8.04 | 8.00 | 8.01 | 8.01 | 8.05 | -0.2% |
| Powder/Green River | 5.74 | 5.85 | 5.88 | 5.97 | 6.06 | 6.14 | 6.23 | 6.31 | 6.34 | 6.41 | 6.47 | 6.53 | 6.53 | 0.3% |
| Low Sulfur (Bituminous) | 20.56 | 20.77 | 20.87 | 20.98 | 21.08 | 21.00 | 20.85 | 20.68 | 20.58 | 20.52 | 20.43 | 20.37 | 20.22 | N/A |
| Low Sulfur (Sub-Bituminous) | 5.64 | 5.75 | 5.78 | 5.87 | 5.96 | 6.04 | 6.14 | 6.23 | 6.26 | 6.33 | 6.39 | 6.46 | 6.46 | 0.3% |
| Medium Sulfur (Sub-Bituminous) | 6.82 | 6.89 | 6.94 | 7.02 | 7.06 | 7.09 | 7.13 | 7.17 | 7.20 | 7.24 | 7.31 | 7.31 | 7.35 | -0.1% |
| Rocky Mountain | 16.53 | 16.52 | 16.58 | 16.58 | 16.51 | 16.41 | 16.57 | 16.60 | 16.66 | 16.67 | 16.67 | 16.67 | 16.73 | -0.4% |
| Low Sulfur (Bituminous) | 16.23 | 16.24 | 16.34 | 16.35 | 16.32 | 16.24 | 16.48 | 16.56 | 16.63 | 16.63 | 16.63 | 16.63 | 16.69 | W |
| Low Sulfur (Sub-Bituminous) | 19.02 | 18.84 | 18.74 | 18.65 | 18.37 | 18.10 | 17.65 | 17.04 | 17.12 | 17.21 | 17.21 | 17.21 | 17.29 | W |
| Arizona/New Mexico | 19.35 | 19.34 | 19.31 | 19.24 | 19.21 | 19.21 | 19.13 | 19.23 | 19.23 | 19.32 | 19.32 | 19.32 | 19.28 | W |
| Low Sulfur (Bituminous) | 19.57 | 19.53 | 19.55 | 19.50 | 19.40 | 19.50 | 19.40 | 19.50 | 19.60 | 19.69 | 19.69 | 19.69 | 19.59 | W |
| Medium Sulfur (Bituminous) | 22.49 | 22.49 | 22.38 | 22.27 | 22.38 | 22.27 | 22.16 | 22.27 | 22.16 | 22.27 | 22.27 | 22.27 | 22.15 | W |
| Medium Sulfur (Sub-Bituminous) | 16.92 | 16.92 | 16.84 | 16.76 | 16.67 | 16.59 | 16.51 | 16.59 | 16.51 | 16.59 | 16.59 | 16.59 | 16.67 | W |
| Washington/Alaska | | | | | | | | | | | | | | |
| Medium Sulfur (Sub-Bituminous) | 27.02 | 27.02 | 27.16 | 27.02 | 27.16 | 27.29 | 27.15 | 27.29 | 27.43 | 27.29 | 27.29 | 27.29 | 27.42 | W |

**Table 115. Coal Prices by Region and Type**
**(2001 Dollars per Short Ton)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Average by Type: All Regions | | | | | | | | | | | | | | |
| Premium Metallurgical 1/ | 26.31 | 26.36 | 26.23 | 26.08 | 25.99 | 26.06 | 25.92 | 25.99 | 25.46 | 25.40 | 25.32 | 25.35 | 25.23 | -0.9% |
| Bituminous | 22.84 | 22.82 | 22.89 | 22.88 | 22.80 | 22.87 | 22.86 | 22.76 | 22.67 | 22.73 | 22.65 | 22.75 | 22.81 | -0.4% |
| Sub-Bituminous | 6.35 | 6.43 | 6.45 | 6.51 | 6.56 | 6.63 | 6.68 | 6.74 | 6.78 | 6.83 | 6.88 | 6.94 | 6.94 | -0.3% |
| Lignite | 10.82 | 10.77 | 10.77 | 10.81 | 10.83 | 10.82 | 10.73 | 10.73 | 10.70 | 10.67 | 10.67 | 10.64 | 10.65 | -0.9% |
| Low Sulfur | 9.88 | 9.85 | 9.84 | 9.79 | 9.73 | 9.71 | 9.77 | 9.74 | 9.74 | 9.72 | 9.73 | 9.79 | 9.83 | -0.7% |
| Medium Sulfur | 21.19 | 21.20 | 21.34 | 21.28 | 21.20 | 21.25 | 21.19 | 21.07 | 20.91 | 20.90 | 20.81 | 20.93 | 20.98 | -0.5% |
| High Sulfur | 19.24 | 19.26 | 19.18 | 19.20 | 19.08 | 19.31 | 19.36 | 19.34 | 19.35 | 19.46 | 19.49 | 19.53 | 19.44 | -0.4% |
| U.S. Average | 14.65 | 14.63 | 14.67 | 14.59 | 14.49 | 14.51 | 14.48 | 14.38 | 14.32 | 14.28 | 14.24 | 14.32 | 14.36 | -0.8% |

**Table 115. Coal Prices by Region and Type**
**(2001 Dollars per Short Ton)**

1/ "Premium" coal is used to make metallurgical coke.
2/ Includes Pennsylvania anthracite.
3/ Waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal tables. The averages for this table include this waste coal tonnage in the forecast years.
Northern Appalachia: PA, MD, OH, Northern WV (PA anthracite is included under low and medium sulfur bituminous).
Central Appalachia: Southern WV, VA, Eastern KY
Southern Appalachia: AL, TN.
Eastern Interior: IL, IN, MS, Western KY.
Western Interior (Bituminous Only): IA, MO, KS, OK, AR, TX.
Gulf (Lignite Only): TX, LA, AR.
Dakota: ND, Eastern MT (Lignite Only).
Powder/Green River: WY, MT (Sub-Bituminous and Bituminous)
Rocky Mountains: CO, UT.
Sulfur Definitions:
Low Sulfur: 0 - 0.60 pounds of sulfur per million Btu.
Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million Btu.
High Sulfur: Over 1.67 pounds of sulfur per million Btu.
Btu = British thermal unit.
W = Withheld.
Note: Totals may not equal sum of components due to independent rounding.
Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 116. Indicators of Macroeconomic Activity**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments, National (billion 1996 dollars) | | | | | | | | | | | | | |
| Total Industrial | 5719.1 | 5424.9 | 5331.7 | 5545.2 | 5757.6 | 5882.2 | 6059.6 | 6277.4 | 6480.1 | 6704.0 | 6958.6 | 7198.3 | 7429.8 |
| Total Nonmanufacturing | 1341.5 | 1345.9 | 1328.7 | 1320.1 | 1334.3 | 1339.9 | 1357.8 | 1402.1 | 1441.1 | 1470.8 | 1505.2 | 1542.4 | 1573.2 |
| Coal Mining | 28.4 | 29.7 | 27.9 | 28.3 | 28.3 | 28.9 | 29.7 | 30.5 | 30.8 | 31.1 | 31.4 | 31.6 | 31.8 |
| Oil and Gas Extraction | 80.2 | 80.3 | 80.5 | 81.7 | 81.9 | 81.6 | 84.4 | 84.8 | 85.8 | 86.1 | 86.3 | 87.1 | 88.1 |
| Total Manufacturing | 4377.6 | 4079.0 | 4003.0 | 4225.1 | 4423.4 | 4542.3 | 4701.8 | 4875.4 | 5038.9 | 5233.2 | 5453.4 | 5655.9 | 5856.7 |
| Petroleum Refining | 164.0 | 170.1 | 173.0 | 176.7 | 176.9 | 179.5 | 181.5 | 185.8 | 188.9 | 191.8 | 195.5 | 198.3 | 201.2 |
| Paper | 165.4 | 154.2 | 152.3 | 157.0 | 160.4 | 162.8 | 164.7 | 167.5 | 170.5 | 174.7 | 179.9 | 184.6 | 188.4 |
| Chemicals | 413.4 | 388.2 | 384.6 | 398.6 | 408.4 | 415.3 | 425.6 | 440.1 | 454.9 | 472.1 | 491.4 | 510.4 | 527.6 |
| Stone, Clay, and Glass | 99.8 | 87.6 | 79.5 | 80.3 | 82.9 | 84.8 | 87.1 | 90.1 | 92.7 | 95.5 | 98.7 | 102.0 | 103.5 |
| Primary Metals | 195.1 | 175.6 | 169.1 | 177.5 | 183.4 | 185.2 | 189.1 | 195.3 | 199.6 | 205.4 | 212.8 | 219.7 | 224.7 |
| Basic Steel | 75.4 | 67.5 | 66.0 | 69.6 | 71.4 | 72.2 | 73.9 | 76.0 | 77.6 | 79.8 | 82.3 | 84.8 | 86.3 |
| Primary Aluminum | 31.7 | 30.3 | 29.4 | 30.6 | 31.4 | 31.3 | 31.5 | 32.1 | 32.9 | 33.7 | 34.8 | 35.7 | 36.3 |
| Fabricated Metals | 237.8 | 217.3 | 213.8 | 224.0 | 231.2 | 235.0 | 238.6 | 244.4 | 249.5 | 256.1 | 264.4 | 272.4 | 280.1 |
| Industrial Machinery | 494.6 | 442.9 | 424.4 | 467.6 | 505.8 | 532.0 | 568.0 | 592.2 | 623.2 | 657.6 | 696.1 | 732.1 | 770.5 |
| Electrical Machinery | 511.6 | 441.0 | 437.6 | 512.0 | 581.0 | 628.6 | 687.7 | 744.1 | 805.8 | 875.1 | 948.6 | 1017.5 | 1088.0 |
| Transportation Equipment | 565.2 | 528.8 | 502.3 | 533.9 | 569.4 | 582.7 | 607.6 | 636.1 | 649.4 | 667.7 | 686.7 | 701.6 | 714.1 |
| Other Manufacturing | 1530.8 | 1473.3 | 1466.4 | 1497.6 | 1524.0 | 1536.3 | 1551.9 | 1579.8 | 1604.6 | 1637.1 | 1679.2 | 1717.5 | 1758.4 |
| Real Disposable Income by Census Division (billion 1996 dollars) | | | | | | | | | | | | | |
| New England | 388 | 393 | 408 | 412 | 415 | 422 | 432 | 442 | 453 | 465 | 479 | 491 | 504 |
| Middle Atlantic | 1041 | 1056 | 1100 | 1114 | 1122 | 1143 | 1168 | 1195 | 1226 | 1257 | 1291 | 1323 | 1357 |
| East North Central | 1057 | 1069 | 1109 | 1118 | 1125 | 1145 | 1170 | 1197 | 1227 | 1259 | 1295 | 1329 | 1363 |
| West North Central | 427 | 433 | 450 | 455 | 459 | 468 | 479 | 492 | 505 | 519 | 534 | 549 | 564 |
| South Atlantic | 1190 | 1216 | 1275 | 1301 | 1323 | 1362 | 1407 | 1456 | 1510 | 1567 | 1630 | 1688 | 1750 |
| East South Central | 336 | 341 | 355 | 359 | 363 | 370 | 379 | 389 | 400 | 411 | 424 | 436 | 449 |
| West South Central | 664 | 678 | 711 | 725 | 736 | 756 | 779 | 804 | 831 | 860 | 893 | 924 | 955 |
| Mountain | 389 | 400 | 423 | 435 | 446 | 462 | 481 | 502 | 524 | 548 | 574 | 599 | 624 |
| Pacific | 1138 | 1162 | 1217 | 1241 | 1259 | 1293 | 1331 | 1372 | 1417 | 1464 | 1517 | 1566 | 1616 |
| United States | 6630 | 6748 | 7047 | 7161 | 7249 | 7421 | 7626 | 7848 | 8094 | 8350 | 8637 | 8905 | 9181 |
| Non-Agricultural Employment by Census Division (millions) | | | | | | | | | | | | | |
| New England | 7.0 | 7.0 | 6.9 | 7.0 | 7.1 | 7.2 | 7.2 | 7.3 | 7.4 | 7.5 | 7.5 | 7.6 | 7.7 |
| Middle Atlantic | 18.2 | 18.2 | 18.0 | 18.1 | 18.4 | 18.5 | 18.7 | 18.8 | 19.0 | 19.2 | 19.3 | 19.5 | 19.6 |
| East North Central | 22.0 | 21.9 | 21.6 | 21.7 | 22.1 | 22.2 | 22.4 | 22.6 | 22.8 | 23.0 | 23.3 | 23.5 | 23.6 |
| West North Central | 9.8 | 9.8 | 9.7 | 9.8 | 10.0 | 10.1 | 10.2 | 10.3 | 10.4 | 10.5 | 10.6 | 10.7 | 10.8 |
| South Atlantic | 24.7 | 24.8 | 24.7 | 25.1 | 25.7 | 26.1 | 26.5 | 27.0 | 27.6 | 28.0 | 28.6 | 29.1 | 29.5 |
| East South Central | 7.7 | 7.7 | 7.6 | 7.6 | 7.8 | 7.8 | 7.9 | 8.0 | 8.1 | 8.2 | 8.3 | 8.4 | 8.4 |
| West South Central | 14.0 | 14.1 | 14.0 | 14.2 | 14.6 | 14.8 | 15.0 | 15.3 | 15.6 | 15.8 | 16.1 | 16.4 | 16.6 |
| Mountain | 8.5 | 8.6 | 8.7 | 8.9 | 9.2 | 9.4 | 9.6 | 9.9 | 10.1 | 10.4 | 10.6 | 10.9 | 11.1 |
| Pacific | 19.5 | 19.7 | 19.7 | 20.0 | 20.5 | 20.8 | 21.2 | 21.5 | 21.9 | 22.3 | 22.7 | 23.1 | 23.3 |
| United States | 131.3 | 131.7 | 130.8 | 132.6 | 135.3 | 137.0 | 138.6 | 140.7 | 142.9 | 144.7 | 147.1 | 149.3 | 150.5 |

**Table 116. Indicators of Macroeconomic Activity**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Value of Shipments, National (billion 1996 dollars) | | | | | | | | | | | | | | |
| Total Industrial | 7634.5 | 7852.7 | 8029.1 | 8184.7 | 8362.2 | 8551.3 | 8769.2 | 8963.0 | 9160.6 | 9400.6 | 9636.1 | 9903.8 | 10126.2 | 2.6% |
| Total Nonmanufacturing | 1588.6 | 1614.4 | 1635.8 | 1651.6 | 1669.2 | 1686.6 | 1714.8 | 1743.2 | 1766.6 | 1792.8 | 1814.2 | 1841.2 | 1869.2 | 1.4% |
| Coal Mining | 32.1 | 32.3 | 32.8 | 33.1 | 33.5 | 33.8 | 34.2 | 34.5 | 34.6 | 35.0 | 35.4 | 35.8 | 36.5 | 0.9% |
| Oil and Gas Extraction | 88.3 | 88.8 | 89.4 | 89.6 | 89.8 | 91.1 | 92.6 | 93.7 | 94.8 | 96.4 | 96.6 | 97.3 | 97.2 | 0.8% |
| Total Manufacturing | 6045.9 | 6238.2 | 6393.3 | 6533.1 | 6693.0 | 6864.7 | 7054.4 | 7219.9 | 7394.1 | 7607.8 | 7821.9 | 8062.6 | 8257.1 | 3.0% |
| Petroleum Refining | 203.1 | 204.3 | 205.2 | 206.3 | 207.6 | 209.0 | 210.4 | 211.8 | 212.3 | 212.8 | 213.4 | 214.2 | 214.7 | 1.0% |
| Paper | 192.0 | 195.6 | 198.6 | 201.3 | 204.2 | 207.4 | 210.8 | 213.7 | 216.3 | 219.5 | 222.6 | 225.9 | 229.1 | 1.7% |
| Chemicals | 541.8 | 556.1 | 568.8 | 582.2 | 598.4 | 614.7 | 631.1 | 645.4 | 661.0 | 676.9 | 691.8 | 707.9 | 724.1 | 2.6% |
| Stone, Clay, and Glass | 104.3 | 105.6 | 106.4 | 107.0 | 107.8 | 108.8 | 110.4 | 111.5 | 112.6 | 114.2 | 115.6 | 117.3 | 117.7 | 1.2% |
| Primary Metals | 228.0 | 231.5 | 232.4 | 232.4 | 233.6 | 235.2 | 237.7 | 238.1 | 238.3 | 240.8 | 242.6 | 245.8 | 248.0 | 1.4% |
| Basic Steel | 87.2 | 88.0 | 87.8 | 87.5 | 87.7 | 88.2 | 88.7 | 88.3 | 88.3 | 88.8 | 89.2 | 89.9 | 90.2 | 1.2% |
| Primary Aluminum | 37.0 | 37.7 | 38.2 | 38.6 | 39.0 | 39.4 | 39.9 | 40.1 | 40.4 | 40.9 | 41.4 | 41.9 | 42.5 | 1.4% |
| Fabricated Metals | 287.2 | 294.7 | 300.4 | 305.2 | 310.6 | 316.5 | 322.9 | 328.2 | 333.4 | 340.3 | 346.8 | 354.0 | 360.8 | 2.1% |
| Industrial Machinery | 808.6 | 844.7 | 873.5 | 900.5 | 931.9 | 967.7 | 1004.9 | 1041.4 | 1084.1 | 1134.4 | 1189.8 | 1248.9 | 1282.0 | 4.5% |
| Electrical Machinery | 1154.9 | 1214.8 | 1259.6 | 1294.3 | 1328.5 | 1365.4 | 1403.8 | 1439.8 | 1481.0 | 1529.4 | 1580.1 | 1634.7 | 1690.5 | 5.8% |
| Transportation Equipment | 726.4 | 747.6 | 766.0 | 783.6 | 807.5 | 832.3 | 864.7 | 889.3 | 912.0 | 948.6 | 981.7 | 1026.1 | 1061.4 | 2.9% |
| Other Manufacturing | 1799.7 | 1843.4 | 1882.4 | 1920.3 | 1962.9 | 2007.6 | 2057.6 | 2100.7 | 2143.1 | 2190.8 | 2237.7 | 2287.8 | 2328.8 | 1.9% |
| Real Disposable Income by Census Division (billion 1996 dollars) | | | | | | | | | | | | | | |
| New England | 517 | 531 | 545 | 559 | 574 | 589 | 605 | 619 | 632 | 646 | 662 | 679 | 696 | 2.4% |
| Middle Atlantic | 1391 | 1427 | 1463 | 1497 | 1533 | 1570 | 1610 | 1643 | 1673 | 1706 | 1745 | 1787 | 1827 | 2.3% |
| East North Central | 1398 | 1436 | 1474 | 1512 | 1551 | 1590 | 1634 | 1670 | 1704 | 1741 | 1784 | 1830 | 1874 | 2.4% |
| West North Central | 579 | 596 | 613 | 630 | 647 | 665 | 685 | 702 | 717 | 734 | 753 | 774 | 795 | 2.6% |
| South Atlantic | 1814 | 1883 | 1952 | 2022 | 2094 | 2169 | 2250 | 2324 | 2392 | 2466 | 2549 | 2637 | 2724 | 3.4% |
| East South Central | 462 | 476 | 490 | 505 | 520 | 535 | 551 | 566 | 579 | 593 | 609 | 627 | 644 | 2.7% |
| West South Central | 988 | 1023 | 1058 | 1092 | 1128 | 1165 | 1204 | 1240 | 1273 | 1309 | 1350 | 1393 | 1436 | 3.2% |
| Mountain | 652 | 681 | 710 | 740 | 772 | 805 | 840 | 872 | 903 | 936 | 973 | 1013 | 1052 | 4.1% |
| Pacific | 1668 | 1725 | 1781 | 1837 | 1895 | 1955 | 2020 | 2077 | 2130 | 2187 | 2252 | 2321 | 2388 | 3.0% |
| United States | 9467 | 9779 | 10087 | 10395 | 10712 | 11043 | 11400 | 11713 | 12003 | 12318 | 12676 | 13061 | 13435 | 2.9% |
| Non-Agricultural Employment by Census Division (millions) | | | | | | | | | | | | | | |
| New England | 7.7 | 7.7 | 7.7 | 7.7 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.9 | 7.9 | 8.0 | 8.0 | 0.6% |
| Middle Atlantic | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.6 | 19.7 | 19.8 | 0.4% |
| East North Central | 23.6 | 23.7 | 23.8 | 23.9 | 23.9 | 24.0 | 24.1 | 24.1 | 24.2 | 24.3 | 24.4 | 24.6 | 24.7 | 0.5% |
| West North Central | 10.8 | 10.9 | 10.9 | 11.0 | 11.0 | 11.1 | 11.1 | 11.1 | 11.2 | 11.2 | 11.3 | 11.4 | 11.4 | 0.6% |
| South Atlantic | 29.8 | 30.2 | 30.5 | 30.8 | 31.1 | 31.4 | 31.7 | 32.1 | 32.4 | 32.7 | 33.1 | 33.5 | 33.9 | 1.3% |
| East South Central | 8.5 | 8.5 | 8.6 | 8.6 | 8.6 | 8.7 | 8.7 | 8.8 | 8.8 | 8.9 | 8.9 | 9.0 | 9.0 | 0.7% |
| West South Central | 16.7 | 16.9 | 17.1 | 17.3 | 17.4 | 17.6 | 17.7 | 17.9 | 18.0 | 18.2 | 18.4 | 18.6 | 18.8 | 1.2% |
| Mountain | 11.3 | 11.5 | 11.7 | 11.9 | 12.1 | 12.3 | 12.5 | 12.7 | 12.8 | 13.1 | 13.3 | 13.5 | 13.8 | 2.0% |
| Pacific | 23.5 | 23.8 | 24.0 | 24.2 | 24.4 | 24.7 | 24.9 | 25.1 | 25.3 | 25.6 | 25.8 | 26.2 | 26.5 | 1.2% |
| United States | 151.5 | 152.8 | 154.0 | 155.1 | 156.0 | 157.0 | 158.1 | 159.2 | 160.0 | 161.4 | 162.7 | 164.4 | 165.9 | 1.0% |

**Table 116. Indicators of Macroeconomic Activity**

Note: Totals may not equal sum of components due to independent rounding.
Source: 2000 and 2001: Global Insight macroeconomic model CTL0802 and industry service August 2002, run for the Energy Information Administration (EIA). Projections: EIA, AEO2003 National Energy Modeling System run aeo2003.d110502c.

**Table 117. Imported Petroleum by Source**
**(Million Barrels per Day)**

| | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Crude Oil | | | | | | | | | | | | | |
| Canada | 1.34 | 1.36 | 1.37 | 1.39 | 1.41 | 1.43 | 1.45 | 1.46 | 1.47 | 1.48 | 1.49 | 1.50 | 1.51 |
| Mexico | 1.31 | 1.39 | 1.37 | 1.38 | 1.37 | 1.37 | 1.39 | 1.41 | 1.43 | 1.45 | 1.48 | 1.51 | 1.55 |
| North Sea | 0.60 | 0.53 | 0.49 | 0.49 | 0.49 | 0.47 | 0.47 | 0.46 | 0.46 | 0.46 | 0.45 | 0.45 | 0.44 |
| OPEC | 4.56 | 4.84 | 4.57 | 4.81 | 4.99 | 5.26 | 5.25 | 5.39 | 5.61 | 5.85 | 6.05 | 6.20 | 6.36 |
| Latin America | 1.22 | 1.29 | 1.32 | 1.43 | 1.54 | 1.59 | 1.61 | 1.63 | 1.67 | 1.69 | 1.72 | 1.74 | 1.77 |
| North Africa | 0.01 | 0.01 | 0.02 | 0.04 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | 0.10 | 0.11 | 0.11 | 0.11 |
| West Africa | 0.88 | 0.84 | 0.68 | 0.73 | 0.75 | 0.79 | 0.79 | 0.81 | 0.87 | 0.87 | 0.89 | 0.90 | 0.91 |
| Indonesia | 0.04 | 0.04 | 0.06 | 0.09 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 |
| Persian Gulf | 2.41 | 2.66 | 2.49 | 2.52 | 2.55 | 2.72 | 2.68 | 2.77 | 2.88 | 3.09 | 3.23 | 3.35 | 3.48 |
| Other Middle East | 0.03 | 0.04 | 0.02 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 |
| Other Latin America | 0.58 | 0.52 | 0.53 | 0.59 | 0.65 | 0.58 | 0.55 | 0.64 | 0.67 | 0.73 | 0.78 | 0.81 | 0.80 |
| Other Africa | 0.50 | 0.51 | 0.53 | 0.73 | 0.82 | 0.91 | 0.81 | 0.84 | 0.89 | 0.93 | 1.03 | 1.05 | 1.04 |
| Other Asia | 0.15 | 0.14 | 0.14 | 0.18 | 0.19 | 0.24 | 0.20 | 0.21 | 0.23 | 0.26 | 0.27 | 0.28 | 0.28 |
| Total Crude Oil | 12.88 | 13.50 | 12.96 | 13.73 | 14.25 | 14.84 | 14.72 | 15.15 | 15.70 | 16.31 | 16.91 | 17.30 | 17.65 |
| Light Refined Products 1/ | | | | | | | | | | | | | |
| Canada | 0.39 | 0.39 | 0.40 | 0.42 | 0.39 | 0.40 | 0.41 | 0.42 | 0.43 | 0.45 | 0.45 | 0.46 | 0.47 |
| Northern Europe | 0.11 | 0.15 | 0.15 | 0.14 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 |
| Southern Europe | 0.06 | 0.09 | 0.05 | 0.05 | 0.04 | 0.05 | 0.05 | 0.05 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| OPEC | 0.26 | 0.26 | 0.33 | 0.31 | 0.27 | 0.28 | 0.31 | 0.34 | 0.37 | 0.51 | 0.50 | 0.56 | 0.64 |
| Latin America | 0.19 | 0.16 | 0.21 | 0.19 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.28 | 0.28 | 0.33 | 0.40 |
| North Africa | 0.02 | 0.04 | 0.05 | 0.05 | 0.04 | 0.04 | 0.04 | 0.05 | 0.06 | 0.08 | 0.08 | 0.08 | 0.08 |
| West Africa | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 |
| Indonesia | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Persian Gulf | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.06 | 0.06 | 0.07 | 0.11 | 0.11 | 0.12 | 0.13 |
| Caribbean Basin | 0.31 | 0.27 | 0.28 | 0.29 | 0.17 | 0.18 | 0.19 | 0.19 | 0.21 | 0.25 | 0.25 | 0.27 | 0.35 |
| Asian Exporters | 0.12 | 0.11 | 0.11 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.12 | 0.12 | 0.13 | 0.15 |
| Other | 0.07 | 0.19 | 0.09 | 0.08 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.11 | 0.11 | 0.12 | 0.13 |
| Total Light Refined Products | 1.45 | 1.44 | 1.60 | 1.57 | 1.31 | 1.35 | 1.43 | 1.50 | 1.60 | 1.96 | 1.94 | 2.10 | 2.37 |
| Heavy Refined Products 2/ | | | | | | | | | | | | | |
| Canada | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 | 0.10 | 0.11 | 0.12 | 0.12 | 0.12 |
| Northern Europe | 0.14 | 0.15 | 0.06 | 0.07 | 0.08 | 0.08 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| Southern Europe | 0.05 | 0.04 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| OPEC | 0.41 | 0.44 | 0.33 | 0.47 | 0.46 | 0.47 | 0.53 | 0.56 | 0.57 | 0.56 | 0.74 | 0.85 | 0.94 |
| Latin America | 0.13 | 0.11 | 0.13 | 0.17 | 0.17 | 0.18 | 0.20 | 0.23 | 0.23 | 0.22 | 0.30 | 0.36 | 0.41 |
| North Africa | 0.20 | 0.22 | 0.10 | 0.14 | 0.13 | 0.13 | 0.13 | 0.12 | 0.12 | 0.12 | 0.13 | 0.14 | 0.14 |
| West Africa | 0.02 | 0.03 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Indonesia | 0.01 | 0.02 | 0.02 | 0.03 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 |
| Persian Gulf | 0.05 | 0.06 | 0.07 | 0.12 | 0.13 | 0.13 | 0.17 | 0.18 | 0.19 | 0.19 | 0.28 | 0.33 | 0.37 |
| Caribbean Basin | 0.21 | 0.17 | 0.18 | 0.22 | 0.16 | 0.16 | 0.19 | 0.25 | 0.33 | 0.32 | 0.43 | 0.49 | 0.55 |
| Asian Exporters | 0.10 | 0.11 | 0.10 | 0.11 | 0.10 | 0.09 | 0.11 | 0.13 | 0.14 | 0.13 | 0.16 | 0.19 | 0.19 |
| Other | 0.09 | 0.09 | 0.08 | 0.08 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.09 |
| Total Heavy Refined Products | 1.34 | 1.39 | 1.08 | 1.42 | 1.34 | 1.36 | 1.54 | 1.67 | 1.79 | 1.76 | 2.27 | 2.58 | 2.82 |

**Table 117. Imported Petroleum by Source**
**(Million Barrels per Day)**

| | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2001-2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Crude Oil | | | | | | | | | | | | | | |
| Canada | 1.52 | 1.53 | 1.54 | 1.55 | 1.57 | 1.59 | 1.61 | 1.62 | 1.63 | 1.64 | 1.64 | 1.65 | 1.65 | 0.8% |
| Mexico | 1.60 | 1.66 | 1.72 | 1.76 | 1.80 | 1.83 | 1.85 | 1.86 | 1.88 | 1.91 | 1.94 | 1.98 | 2.02 | 1.6% |
| North Sea | 0.42 | 0.40 | 0.39 | 0.38 | 0.38 | 0.36 | 0.36 | 0.34 | 0.34 | 0.34 | 0.33 | 0.33 | 0.32 | -2.1% |
| OPEC | 6.52 | 6.68 | 6.84 | 6.98 | 7.10 | 7.18 | 7.24 | 7.33 | 7.41 | 7.45 | 7.55 | 7.64 | 7.74 | 2.0% |
| Latin America | 1.79 | 1.81 | 1.82 | 1.84 | 1.84 | 1.87 | 1.89 | 1.93 | 1.95 | 1.97 | 2.02 | 2.07 | 2.12 | 2.1% |
| North Africa | 0.10 | 0.10 | 0.09 | 0.09 | 0.09 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 9.1% |
| West Africa | 0.92 | 0.93 | 0.94 | 0.95 | 0.96 | 0.97 | 0.98 | 1.00 | 1.02 | 1.03 | 1.05 | 1.07 | 1.09 | 1.1% |
| Indonesia | 0.09 | 0.09 | 0.09 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.9% |
| Persian Gulf | 3.62 | 3.75 | 3.90 | 4.04 | 4.16 | 4.21 | 4.24 | 4.27 | 4.31 | 4.32 | 4.35 | 4.37 | 4.40 | 2.1% |
| Other Middle East | 0.03 | 0.03 | 0.03 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | -5.6% |
| Other Latin America | 0.78 | 0.72 | 0.69 | 0.63 | 0.57 | 0.55 | 0.51 | 0.50 | 0.49 | 0.46 | 0.45 | 0.44 | 0.44 | -0.7% |
| Other Africa | 1.03 | 1.00 | 0.93 | 0.90 | 0.87 | 0.86 | 0.81 | 0.81 | 0.77 | 0.73 | 0.71 | 0.70 | 0.70 | 1.3% |
| Other Asia | 0.28 | 0.27 | 0.27 | 0.27 | 0.27 | 0.26 | 0.25 | 0.25 | 0.25 | 0.24 | 0.24 | 0.23 | 0.23 | 2.1% |
| Total Crude Oil | 18.00 | 18.30 | 18.59 | 18.82 | 19.03 | 19.21 | 19.27 | 19.46 | 19.60 | 19.65 | 19.85 | 20.06 | 20.30 | 1.7% |
| Light Refined Products 1/ | | | | | | | | | | | | | | |
| Canada | 0.48 | 0.49 | 0.50 | 0.51 | 0.57 | 0.58 | 0.60 | 0.61 | 0.62 | 0.63 | 0.63 | 0.63 | 0.64 | 2.1% |
| Northern Europe | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | -1.7% |
| Southern Europe | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | -1.7% |
| OPEC | 0.74 | 0.78 | 0.90 | 0.95 | 0.98 | 1.06 | 1.16 | 1.28 | 1.43 | 1.58 | 1.79 | 1.95 | 2.10 | 9.1% |
| Latin America | 0.49 | 0.52 | 0.63 | 0.67 | 0.69 | 0.75 | 0.83 | 0.91 | 1.01 | 1.11 | 1.26 | 1.37 | 1.47 | 9.7% |
| North Africa | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 3.9% |
| West Africa | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | 5.9% |
| Indonesia | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Persian Gulf | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.20 | 0.22 | 0.25 | 0.29 | 0.33 | 0.38 | 0.43 | 0.48 | 10.9% |
| Caribbean Basin | 0.41 | 0.47 | 0.55 | 0.72 | 0.84 | 0.92 | 1.04 | 1.12 | 1.23 | 1.35 | 1.39 | 1.52 | 1.64 | 7.8% |
| Asian Exporters | 0.17 | 0.18 | 0.19 | 0.21 | 0.22 | 0.25 | 0.26 | 0.26 | 0.29 | 0.32 | 0.37 | 0.39 | 0.43 | 5.8% |
| Other | 0.14 | 0.15 | 0.17 | 0.18 | 0.19 | 0.20 | 0.20 | 0.21 | 0.23 | 0.24 | 0.27 | 0.31 | 0.35 | 2.6% |
| Total Light Refined Products | 2.65 | 2.81 | 3.15 | 3.45 | 3.70 | 3.97 | 4.32 | 4.65 | 5.10 | 5.56 | 6.07 | 6.54 | 7.01 | 6.8% |
| Heavy Refined Products 2/ | | | | | | | | | | | | | | |
| Canada | 0.12 | 0.12 | 0.12 | 0.12 | 0.11 | 0.11 | 0.11 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.09 | 1.8% |
| Northern Europe | 0.08 | 0.08 | 0.07 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | -5.0% |
| Southern Europe | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | -7.7% |
| OPEC | 1.05 | 1.19 | 1.20 | 1.21 | 1.22 | 1.25 | 1.27 | 1.29 | 1.30 | 1.31 | 1.31 | 1.31 | 1.31 | 5.9% |
| Latin America | 0.47 | 0.54 | 0.55 | 0.56 | 0.57 | 0.58 | 0.59 | 0.60 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 7.9% |
| North Africa | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 | -1.4% |
| West Africa | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | -3.4% |
| Indonesia | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.0% |
| Persian Gulf | 0.41 | 0.48 | 0.48 | 0.48 | 0.48 | 0.50 | 0.51 | 0.52 | 0.52 | 0.53 | 0.53 | 0.53 | 0.53 | 12.4% |
| Caribbean Basin | 0.61 | 0.70 | 0.71 | 0.72 | 0.74 | 0.74 | 0.76 | 0.77 | 0.79 | 0.80 | 0.80 | 0.80 | 0.80 | 6.7% |
| Asian Exporters | 0.18 | 0.18 | 0.17 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.15 | 2.4% |
| Other | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.0% |
| Total Heavy Refined Products | 3.09 | 3.46 | 3.47 | 3.49 | 3.52 | 3.58 | 3.62 | 3.66 | 3.70 | 3.73 | 3.73 | 3.73 | 3.71 | 5.2% |

**Table 117. Imported Petroleum by Source**
**(Million Barrels per Day)**

1/ Light refined products include gasoline, gasoline blending components, jet fuel, distillate fuel oil, liquefied petroleum gases, and kerosene.
2/ Heavy refined products include residual fuel oil, unfinished oils, and other refined products.
OPEC = Organization of Petroleum Exporting Countries - Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.
Caribbean Basin = Bahama Islands, Colombia, Ecuador, Guatemala, Jamaica, Mexico, Netherlands Antilles, Panama, Puerto Rico, Trinidad and Tobago, and the Virgin Islands.
N/A = Not applicable.
Source: Energy Information Administration, AEO2003 National Energy Modeling System run aeo2003.d110502c.