

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Montana</b>		
NERC Region(s).....		WECC/MAPP
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	5,210	40
Electric Utilities .....	2,273	39
Independent Power Producers & Combined Heat and Power .....	2,937	29
Net Generation (megawatthours).....	26,268,726	41
Electric Utilities .....	6,020,681	41
Independent Power Producers & Combined Heat and Power .....	20,248,045	13
Emissions (thousand metric tons)		
Sulfur Dioxide .....	23	40
Nitrogen Oxide .....	37	36
Carbon Dioxide .....	18,659	38
Sulfur Dioxide (lbs/MWh).....	1.9	40
Nitrogen Oxide (lbs/MWh).....	3.1	20
Carbon Dioxide (lbs/MWh).....	1,566	19
Total Retail Sales (megawatthours).....	12,824,660	41
Full Service Provider Sales (megawatthours).....	10,282,211	45
Deregulated Sales (megawatthours).....	2,542,449	12
Direct Use (megawatthours).....	155,230	45
Average Retail Price (cents/kWh).....	6.14	35

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Montana</b>			
1. Colstrip .....	Gas, Petroleum, Coal	PPL Montana LLC	2,094
2. Libby.....	Hydro	USCE-North Pacific Division	604
3. Noxon Rapids.....	Hydro	Avista Corporation	537
4. Hungry Horse .....	Hydro	U S Bureau of Reclamation	428
5. Yellowtail .....	Hydro	U S Bureau of Reclamation	287
6. Kerr.....	Hydro	PPL Montana LLC	212
7. Fort Peck .....	Hydro	USCE-Missouri River District	204
8. J E Corette Plant .....	Gas, Coal	PPL Montana LLC	154
9. Thompson Falls.....	Hydro	PPL Montana LLC	88
10. Glendive GT .....	Petroleum, Gas	MDU Resources Group Inc	73

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Montana</b>						
1. NorthWestern Energy LLC.....	Investor-Owned	5,152,525	2,087,715	2,694,626	370,184	0
2. PPL EnergyPlus LLC.....	Power Marketer	1,858,138	0	0	1,858,138	0
3. Flathead Electric Coop Inc.....	Cooperative	1,287,770	523,003	377,874	386,893	0
4. Hinson Power Company LLC.....	Power Marketer	642,551	0	0	642,551	0
5. MDU Resources Group Inc.....	Investor-Owned	613,091	155,158	220,028	237,905	0
Total Sales, Top Five Providers.....		9,554,075	2,765,876	3,292,528	3,495,671	0
Percent of Total State Sales.....		75	67	74	82	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Montana</b>							
<b>Electric Utilities</b> .....	<b>4,906</b>	<b>4,944</b>	<b>2,273</b>	<b>-8.2</b>	<b>98.8</b>	<b>97.6</b>	<b>43.6</b>
Coal.....	2,260	2,300	52	-34.2	45.5	45.4	1.0
Petroleum.....	0	5	0	NM	.0	.1	.0
Natural Gas.....	70	0	0	NM	1.4	.0	.0
Dual Fired.....	50	52	97	7.6	1.0	1.0	1.9
Hydroelectric.....	2,514	2,587	2,124	-1.9	50.6	51.1	40.8
Other Renewables.....	12	0	0	NM	.2	.0	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>60</b>	<b>121</b>	<b>2,937</b>	<b>54.1</b>	<b>1.2</b>	<b>2.4</b>	<b>56.4</b>
Coal.....	39	39	2,248	56.9	.8	.8	43.1
Petroleum.....	0	61	90	NM	.0	1.2	1.7
Hydroelectric.....	11	11	588	55.6	.2	.2	11.3
Other Renewables.....	10	10	11	1.1	.2	.2	.2
<b>Total Electric Industry</b> .....	<b>4,967</b>	<b>5,065</b>	<b>5,210</b>	<b>.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	2,299	2,339	2,300	*	46.3	46.2	44.1
Petroleum.....	0	66	90	NM	.0	1.3	1.7
Natural Gas.....	70	0	0	NM	1.4	.0	.0
Dual Fired.....	50	52	97	7.6	1.0	1.0	1.9
Hydroelectric.....	2,525	2,598	2,712	.8	50.8	51.3	52.1
Other Renewables.....	23	10	11	-7.9	.5	.2	.2

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Montana</b>							
<b>Electric Utilities</b> .....	<b>24,705,228</b>	<b>27,616,913</b>	<b>6,020,681</b>	<b>-14.5</b>	<b>98.2</b>	<b>97.0</b>	<b>22.9</b>
Coal.....	16,487,675	16,507,968	322,205	-35.4	65.5	58.0	1.2
Petroleum.....	18,421	14,344	1,482	-24.4	.1	*	*
Natural Gas.....	60,784	40,953	17,997	-12.6	.2	.1	.1
Hydroelectric.....	8,096,388	11,053,648	5,678,997	-3.9	32.2	38.8	21.6
Other Renewables.....	41,960	0	0	NM	.2	.0	.0
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>447,621</b>	<b>843,605</b>	<b>20,248,046</b>	<b>52.7</b>	<b>1.8</b>	<b>3.0</b>	<b>77.1</b>
Coal.....	321,714	276,818	16,726,430	55.1	1.3	1.0	63.7
Petroleum.....	1,701	412,387	400,682	83.5	*	1.4	1.5
Natural Gas.....	12,442	14,823	7,471	-5.5	*	.1	*
Other Gases.....	0	31,136	19,520	NM	.0	.1	.1
Hydroelectric.....	53,119	64,292	3,022,775	56.7	.2	.2	11.5
Other Renewables.....	58,645	44,149	71,168	2.2	.2	.2	.3
<b>Total Electric Industry</b> .....	<b>25,152,849</b>	<b>28,460,518</b>	<b>26,268,726</b>	<b>.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	16,809,389	16,784,786	17,048,635	.2	66.8	59.0	64.9
Petroleum.....	20,122	426,731	402,164	39.5	.1	1.5	1.5
Natural Gas.....	73,226	55,776	25,468	-11.1	.3	.2	.1
Other Gases.....	0	31,136	19,520	NM	.0	.1	.1
Hydroelectric.....	8,149,507	11,117,940	8,701,772	.7	32.4	39.1	33.1
Other Renewables.....	100,605	44,149	71,168	-3.8	.4	.2	.3

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Montana</b>				
Coal (cents per million Btu).....	69.3	67.4	W	W
Average heat value (Btu per pound).....	8,500	8,433	8,515	*
Average sulfur Content (percent).....	.7	.7	.6	-0.6
Petroleum (cents per million Btu).....	462.9	466.0	W	W
Average heat value (Btu per gallon).....	141,000	141,000	136,574	-4
Average sulfur Content (percent).....	.0	.0	.5	NM
Natural Gas (cents per million Btu).....	114.9	191.8	W	W
Average heat value (Btu per cubic foot).....	1,055	1,072	1,123	.7

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Montana</b>				
Sulfur Dioxide				
Coal .....	19	18	16	-2.1
Petroleum .....	*	24	2	58.5
Natural Gas .....	—	—	—	NM
Other .....	1	2	5	19.8
Total .....	20	44	23	1.4
Nitrogen Oxide				
Coal .....	82	38	33	-9.6
Petroleum .....	*	1	1	62.4
Gas .....	*	*	*	-6.9
Other .....	*	1	3	26.5
Total .....	82	40	37	-8.5
Carbon Dioxide				
Coal .....	17,709	17,735	17,898	.1
Petroleum .....	24	696	703	45.6
Gas .....	93	206	58	-5.1
Geothermal .....	—	—	—	NM
Other .....	—	—	—	NM
Total .....	17,825	18,637	18,659	.5

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Montana</b>							
Retail Sales (thousand megawatthours)							
Residential .....	3,567	3,722	4,120	1.6	27.1	26.3	32.1
Commercial .....	3,096	3,313	4,438	4.1	23.5	23.4	34.6
Industrial .....	5,961	6,774	4,267	-3.6	45.2	47.9	33.3
Other .....	561	335	NA	NM	4.3	2.4	NA
Total .....	13,184	14,145	12,825	-.3	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	213	242	311	4.3	35.9	35.7	39.5
Commercial .....	160	195	304	7.4	26.9	28.8	38.6
Industrial .....	196	221	172	-1.4	33.0	32.6	21.9
Other .....	25	20	NA	NM	4.2	2.9	NA
Total .....	594	678	787	3.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	5.96	6.50	7.56	2.7	NA	NA	NA
Commercial .....	5.17	5.87	6.85	3.2	NA	NA	NA
Industrial .....	3.30	3.19	4.03	2.3	NA	NA	NA
Other .....	4.49	6.07	NA	NM	NA	NA	NA
Total .....	4.51	4.80	6.14	3.5	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities.....	5	1	3	30	NA	4	1	44
Number of Retail Customers.....	325,008	923	18,652	172,439	NA	1,358	NA	518,380
Retail Sales (thousand megawatthours) .....	6,423	14	572	3,274	NA	2,542	NA	12,825
Percentage of Retail Sales .....	50.08	.11	4.46	25.53	NA	19.82	NA	100.00
Revenue from Retail Sales (million dollars) .....	431	1	24	228	NA	89	14	787
Percentage of Revenue.....	54.77	.10	3.09	28.94	NA	11.33	1.78	100.00
Average Retail Price (cents/kWh).....	6.71	5.59	4.26	6.96	NA	3.51	.55	6.14

Table 9 Notes: Data are shown for All Sectors. **Full Service Providers** sell bundled electricity services (e.g., both energy and delivery) to end users. Full Service Providers may purchase electricity from others (such as Independent Power Producers or other full service providers) prior to delivery. **Other Providers** sell either the energy or the delivery services, but not both. Sales volumes and customer counts shown for Other Providers refer to delivered electricity, which is a joint activity of both energy and delivery providers; for clarity, they are reported only in the Energy column in this table. The revenue shown under Other Providers represents the revenue realized from the sale of the energy and the delivery services distinctly. "Public" entities include municipalities, State power agencies, and municipal marketing authorities. "Federal" entities are either owned or financed by the Federal Government. "Cooperatives" are electric utilities legally established to be owned by and operated for the benefit of those using its service. The cooperative will generate, transmit, and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Facility" sales represent direct electricity transactions from independent generators to end use consumers.

Other Notes: NA = Not applicable; NM = Not meaningful;  
W = Withheld to avoid disclosure of individual company data;  
\* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is '1' and values under 0.5 are shown as '\*').  
Totals may not equal sum of components because of independent rounding;  
Table 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid waste.  
Direct Use is commercial or industrial use of electricity that 1) is self-generated, 2) is produced by either the same entity that consumes the power or an affiliate, and 3) is used in direct support of a service or industrial process located within the same facility or group of facilities that houses the generating equipment. Direct use is exclusive of station use.