

**Table 1. 2004 Summary Statistics**

Item	Value	U.S. Rank
<b>Arizona</b>		
NERC Region(s).....		WECC
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	24,303	15
Electric Utilities .....	16,141	15
Independent Power Producers & Combined Heat and Power .....	8,162	11
Net Generation (megawatthours).....	104,564,143	13
Electric Utilities .....	81,351,521	14
Independent Power Producers & Combined Heat and Power .....	23,212,622	13
Emissions (thousand metric tons)		
Sulfur Dioxide .....	55	32
Nitrogen Oxide.....	78	21
Carbon Dioxide.....	50,577	18
Sulfur Dioxide (lbs/MWh).....	1.2	45
Nitrogen Oxide (lbs/MWh).....	1.6	36
Carbon Dioxide (lbs/MWh).....	1,066	39
Total Retail Sales (megawatthours).....	66,933,251	22
Full Service Provider Sales (megawatthours).....	66,933,251	21
Direct Use (megawatthours).....	374,187	39
Average Retail Price (cents/kWh).....	7.45	18

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2004**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Arizona</b>			
1. Palo Verde.....	Nuclear	Arizona Public Service Co	3,804
2. Navajo.....	Petroleum,Coal	Salt River Proj Ag I & P Dist	2,250
3. Gila River Power LP.....	Other,Gas	Panda Gila River LP	2,060
4. Glen Canyon Dam.....	Hydroelectric	U S Bureau of Reclamation	1,296
5. Mesquite Generating Station.....	Gas	Mesquite Power LLC	1,073
6. Harquahala Generating Project.....	Gas	New Harquahala Generating Co, LLC	1,042
7. Hoover Dam.....	Hydroelectric	U S Bureau of Reclamation	1,040
8. Red Hawk.....	Gas	Pinnacle West Energy	1,020
9. Cholla.....	Gas,Petroleum,Coal	Arizona Public Service Co	995
10. West Phoenix.....	Gas	Arizona Public Service Co	977

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2004**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Arizona</b>						
1. Arizona Public Service Co.....	Investor-Owned	25,507,883	11,527,402	11,402,140	2,578,341	0
2. Salt River Proj Ag I & P Dist.....	Public	23,830,720	11,342,116	9,737,140	2,751,464	0
3. Tucson Electric Power Co.....	Investor-Owned	8,542,990	3,459,750	1,787,472	3,295,768	0
4. Morenci Water & Electric Co.....	Investor-Owned	1,654,444	10,079	13,811	1,630,554	0
5. UNS Electric Inc.....	Power Marketer	1,462,632	691,948	577,022	193,662	0
Total Sales, Top Five Providers.....		60,998,669	27,031,295	23,517,585	10,449,789	0
Percent of Total State Sales.....		91	93	90	88	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1990, 1995, and 2000 Through 2004**  
(Megawatts)

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
<b>Arizona</b>									
<b>Electric Utilities</b> .....	<b>14,906</b>	<b>15,222</b>	<b>15,140</b>	<b>15,284</b>	<b>15,699</b>	<b>16,193</b>	<b>16,141</b>	<b>99.3</b>	<b>66.4</b>
Coal.....	5,116	5,159	5,336	5,336	5,336	5,336	5,336	34.1	22.0
Petroleum.....	75	92	89	88	108	108	108	.5	.4
Natural Gas.....	303	166	10	105	539	1,003	1,431	2.0	5.9
Dual Fired.....	3,006	3,110	3,084	3,130	3,060	2,988	2,524	20.0	10.4
Nuclear.....	3,663	3,810	3,733	3,733	3,733	3,825	3,804	24.4	15.7
Hydroelectric .....	2,595	2,699	2,705	2,705	2,703	2,706	2,710	17.3	11.2
Other Renewables.....	0	0	1	5	5	11	12	.0	*
Pumped Storage.....	148	185	182	182	216	216	216	1.0	.9
<b>Independent Power Producers and Combined</b>									
<b>Heat and Power</b> .....	<b>105</b>	<b>161</b>	<b>171</b>	<b>1,437</b>	<b>3,743</b>	<b>7,315</b>	<b>8,162</b>	<b>.7</b>	<b>33.6</b>
Coal.....	51	51	65	68	68	68	68	.3	.3
Petroleum.....	8	5	2	4	4	4	4	.1	*
Natural Gas.....	4	19	61	1,327	3,659	7,232	8,077	*	33.2
Dual Fired.....	43	86	43	39	13	13	13	.3	.1
<b>Total Electric Industry</b> .....	<b>15,011</b>	<b>15,382</b>	<b>15,311</b>	<b>16,721</b>	<b>19,442</b>	<b>23,510</b>	<b>24,303</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,167	5,210	5,401	5,404	5,404	5,404	5,404	34.4	22.2
Petroleum.....	83	97	91	92	112	112	112	.6	.5
Natural Gas.....	307	184	71	1,431	4,198	8,235	9,509	2.0	39.1
Dual Fired.....	3,049	3,196	3,127	3,169	3,073	3,001	2,537	20.3	10.4
Nuclear.....	3,663	3,810	3,733	3,733	3,733	3,825	3,804	24.4	15.7
Hydroelectric .....	2,595	2,699	2,705	2,705	2,703	2,706	2,710	17.3	11.2
Other Renewables.....	0	0	1	5	5	11	12	.0	*
Pumped Storage.....	148	185	182	182	216	216	216	1.0	.9

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1990, 1995, and 2000 Through 2004**  
(Megawatthours)

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
<b>Arizona</b>									
<b>Electric Utilities</b> .....	<b>62,288,980</b>	<b>68,966,538</b>	<b>88,149,792</b>	<b>85,807,868</b>	<b>81,710,063</b>	<b>80,348,246</b>	<b>81,351,521</b>	<b>99.2</b>	<b>77.8</b>
Coal.....	31,636,037	31,710,476	40,662,627	39,731,623	37,957,468	37,739,559	39,419,177	50.4	37.7
Petroleum.....	116,407	63,610	189,396	311,787	51,061	46,706	39,414	.2	*
Natural Gas.....	2,271,504	1,729,497	8,274,026	9,106,433	5,238,416	6,580,927	6,812,355	3.6	6.5
Nuclear.....	20,597,689	26,984,507	30,380,571	28,724,076	30,861,911	28,581,053	28,112,609	32.8	26.9
Hydroelectric.....	7,417,576	8,288,419	8,354,216	7,623,565	7,427,180	7,074,984	6,973,147	11.8	6.7
Other Renewables.....	0	0	0	34,090	50,063	41,426	48,259	.0	*
Pumped Storage.....	249,767	190,029	288,956	276,294	123,964	283,590	-53,440	.4	-1
<b>Independent Power Producers and Combined</b>									
<b>Heat and Power</b> .....	<b>485,317</b>	<b>814,401</b>	<b>796,785</b>	<b>4,103,404</b>	<b>12,421,603</b>	<b>14,047,972</b>	<b>23,212,622</b>	<b>.8</b>	<b>22.2</b>
Coal.....	279,573	241,183	330,502	329,871	269,163	351,850	394,690	.4	.4
Petroleum.....	35,460	18,947	927	2,419	6,385	1,970	1,102	.1	*
Natural Gas.....	62,396	463,450	460,773	3,765,767	12,054,599	12,351,714	21,449,276	.1	20.5
Other Renewables.....	107,888	90,821	4,583	5,347	91,456	3,843	4	.2	.0
Other.....	0	0	0	0	0	1,338,595	1,367,550	.0	1.3
<b>Total Electric Industry</b> .....	<b>62,774,297</b>	<b>69,780,939</b>	<b>88,946,577</b>	<b>89,911,272</b>	<b>94,131,666</b>	<b>94,396,218</b>	<b>104,564,143</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	31,915,610	31,951,659	40,993,129	40,061,494	38,226,631	38,091,409	39,813,867	50.8	38.1
Petroleum.....	151,867	82,557	190,323	314,206	57,446	48,676	40,516	.2	*
Natural Gas.....	2,333,900	2,192,947	8,734,799	12,872,200	17,293,015	18,932,641	28,261,631	3.7	27.0
Nuclear.....	20,597,689	26,984,507	30,380,571	28,724,076	30,861,911	28,581,053	28,112,609	32.8	26.9
Hydroelectric.....	7,417,576	8,288,419	8,354,216	7,623,565	7,427,180	7,074,984	6,973,147	11.8	6.7
Other Renewables.....	107,888	90,821	4,583	39,437	141,519	45,269	48,263	.2	*
Pumped Storage.....	249,767	190,029	288,956	276,294	123,964	283,590	-53,440	.4	-1
Other.....	0	0	0	0	0	1,338,595	1,367,550	.0	1.3

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1990, 1995, and 2000 Through 2004**

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
<b>Arizona</b>							
Coal (cents per million Btu).....	143.0	139.4	123.8	125.0	W	W	W
Average heat value (Btu per pound).....	10,482	10,274	10,229	10,150	10,151	10,081	10,211
Average sulfur Content (percent).....	.5	.5	.6	.6	.6	.6	.6
Petroleum (cents per million Btu).....	446.0	510.2	859.9	706.3	W	W	W
Average heat value (Btu per gallon).....	142,833	139,934	138,608	143,429	138,007	139,550	133,595
Average sulfur Content (percent).....	.5	.3	.1	.8	.1	.2	.3
Natural Gas (cents per million Btu).....	236.9	172.9	477.9	460.4	320.1	506.1	572.1
Average heat value (Btu per cubic foot).....	1,034	1,022	1,016	1,023	1,018	1,021	1,021

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1990, 1995, and 2000 Through 2004**  
(Thousand Metric Tons)

Emission Type	1990	1995	2000	2001	2002	2003	2004
<b>Arizona</b>							
Sulfur Dioxide							
Coal .....	113	124	67	68	66	63	55
Petroleum.....	*	*	*	*	*	*	*
Natural Gas .....	*	*	*	*	*	*	*
Other.....	1	1	0	0	0	0	0
Total.....	115	125	67	69	66	63	55
Nitrogen Oxide							
Coal .....	145	141	80	77	75	74	75
Petroleum.....	*	*	*	*	*	*	*
Gas.....	3	3	13	11	6	6	3
Other.....	*	*	*	*	*	*	*
Total.....	149	144	93	88	80	80	78
Carbon Dioxide							
Coal .....	31,554	31,362	39,540	38,749	37,414	37,544	38,976
Petroleum.....	137	72	173	297	51	43	37
Gas.....	1,491	1,257	5,150	6,981	7,850	9,069	11,564
Geothermal.....	0	0	0	0	0	0	0
Other.....	0	0	0	0	108	0	0
Total.....	33,183	32,691	44,863	46,027	45,424	46,655	50,577

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1990, 1995, and 2000 Through 2004**

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
<b>Arizona</b>									
Retail Sales (thousand megawatthours)									
Residential.....	15,378	18,036	24,844	26,200	26,413	27,742	28,921	37.1	43.2
Commercial .....	13,731	16,290	21,411	22,045	22,371	25,425	26,106	33.1	39.0
Industrial.....	10,034	11,992	11,975	11,377	11,026	10,914	11,906	24.2	17.8
Other .....	2,327	2,272	2,900	2,652	2,791	NA	NA	5.6	NA
Total.....	41,470	48,589	61,130	62,274	62,601	64,080	66,933	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,390	1,640	2,096	2,174	2,185	2,316	2,447	43.2	49.1
Commercial .....	1,139	1,313	1,572	1,624	1,629	1,803	1,901	35.4	38.1
Industrial.....	560	631	631	597	573	587	637	17.4	12.8
Other.....	126	117	131	131	127	NA	NA	3.9	NA
Total.....	3,215	3,700	4,431	4,526	4,514	4,706	4,985	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	9.04	9.09	8.44	8.30	8.27	8.35	8.46	NA	NA
Commercial .....	8.29	8.06	7.34	7.37	7.28	7.09	7.28	NA	NA
Industrial.....	5.58	5.26	5.27	5.24	5.20	5.38	5.35	NA	NA
Other.....	5.41	5.15	4.52	4.93	4.56	NA	NA	NA	NA
Total.....	7.75	7.62	7.25	7.27	7.21	7.34	7.45	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2004**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Arizona</b>								
Number of Entities.....	5	28	3	9	NA	NA	NA	45
Number of Retail Customers.....	1,421,900	924,346	20,455	155,573	NA	NA	NA	2,522,274
Retail Sales (thousand megawatthours) .....	37,181	26,180	1,179	2,393	NA	NA	NA	66,933
Percentage of Retail Sales .....	55.55	39.11	1.76	3.58	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars) .....	2,910	1,824	46	205	NA	NA	NA	4,985
Percentage of Revenue.....	58.38	36.59	.93	4.10	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	7.83	6.97	3.92	8.55	NA	NA	NA	7.45

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.