

Table 1. 2006 Summary Statistics

Item	Value	U.S. Rank
Arizona		
NERC Region(s).....		WECC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts)	25,608	15
Electric Utilities.....	19,566	14
Independent Power Producers & Combined Heat and Power.....	6,041	17
Net Generation (megawatthours).....	104,392,528	14
Electric Utilities.....	84,355,976	15
Independent Power Producers & Combined Heat and Power.....	20,036,552	15
Emissions (thousand metric tons)		
Sulfur Dioxide	45	33
Nitrogen Oxide.....	75	21
Carbon Dioxide.....	53,353	17
Sulfur Dioxide (lbs/MWh)	0.9	43
Nitrogen Oxide (lbs/MWh)	1.6	36
Carbon Dioxide (lbs/MWh).....	1,127	38
Total Retail Sales (megawatthours).....	73,252,776	21
Full Service Provider Sales (megawatthours)	73,252,776	20
Direct Use (megawatthours)	268,615	39
Average Retail Price (cents/kWh).....	8.24	21

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capacity, 2006

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
Arizona			
1. Palo Verde	Nuclear	Arizona Public Service Co	3,872
2. Navajo.....	Coal	Salt River Project	2,250
3. Gila River Power Station.....	Gas	Panda Gila River LP	2,060
4. Glen Canyon Dam	Hydroelectric	U S Bureau of Reclamation	1,312
5. Santan	Gas	Salt River Project	1,227
6. Springerville	Coal	Tucson Electric Power Co	1,205
7. Mesquite Generating Station	Gas	Mesquite Power LLC	1,073
8. Harquahala Generating Project.....	Gas	New Harquahala Generating Co, LLC	1,054
9. Hoover Dam	Hydroelectric	U S Bureau of Reclamation	1,040
10. Cholla.....	Coal	Arizona Public Service Co	1,021

See footnotes at end of tables.

Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2006
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Arizona Public Service Co	Investor-Owned	27,970,397	12,901,612	12,251,092	2,817,693	-
2. Salt River Project.....	Public	26,249,636	12,650,175	10,753,881	2,845,580	-
3. Tucson Electric Power Co.....	Investor-Owned	9,201,419	3,778,369	1,959,141	3,463,909	-
4. Morenci Water & Electric Co.....	Investor-Owned	1,677,899	11,766	16,063	1,650,070	-
5. UNS Electric, Inc.....	Investor-Owned	1,611,420	803,980	616,268	191,172	-
Total Sales, Top Five Providers		66,710,771	30,145,902	25,596,445	10,968,424	-
Percent of Total State Sales		91	93	89	89	-

See footnotes at end of tables.

Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1990, 1995, and 2001 Through 2006
(Megawatts)

Energy Source	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
Arizona										
Electric Utilities.....	14,906	15,222	15,284	15,699	16,193	16,141	18,860^R	19,566	99.3	76.4
Coal.....	5,116	5,159	5,336	5,336	5,336	5,336	5,362	5,762	34.1	22.5
Petroleum.....	78 ^R	95 ^R	243	263	191	108	108	86	0.5	0.3
Natural Gas	3,306 ^R	3,273 ^R	3,080	3,444	3,908	3,955	6,566 ^R	6,897	22.0	26.9
Nuclear.....	3,663	3,810	3,733	3,733	3,825	3,804	3,875	3,872	24.4	15.1
Hydroelectric	2,595	2,699	2,705	2,703	2,706	2,710	2,720	2,720	17.3	10.6
Other Renewables.....	-	-	5	5	11	12	13	13	-	0.1
Pumped Storage.....	148	185	182	216	216	216	216	216	1.0	0.8
Independent Power Producers and Combined Heat and Power	105	160	1,437	3,743	7,316	8,162	6,044^R	6,041	0.7	23.6
Coal.....	51	51	68	68	68	68	68	68	0.3	0.3
Petroleum.....	8	7	4	4	4	4	4	4	0.1	*
Natural Gas	46	103	1,365	3,672	7,245	8,091	5,969 ^R	5,967	0.3	23.3
Other Renewables.....	-	-	-	-	-	-	3	3	-	*
Total Electric Industry.....	15,011	15,382	16,721	19,442	23,510	24,303	24,904	25,608	100.0	100.0
Coal.....	5,167	5,210	5,404	5,404	5,404	5,404	5,430	5,830	34.4	22.8
Petroleum.....	86 ^R	102 ^R	247	267	195	112	112	90	0.6	0.4
Natural Gas	3,352 ^R	3,376 ^R	4,446	7,115	11,152	12,046	12,535	12,864	22.3	50.2
Nuclear.....	3,663	3,810	3,733	3,733	3,825	3,804	3,875	3,872	24.4	15.1
Hydroelectric	2,595	2,699	2,705	2,703	2,706	2,710	2,720	2,720	17.3	10.6
Other Renewables.....	-	-	5	5	11	12	16	16	-	0.1
Pumped Storage.....	148	185	182	216	216	216	216	216	1.0	0.8

See footnotes at end of tables.

Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1990, 1995, and 2001 Through 2006
(Megawatthours)

Energy Source	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
Arizona										
Electric Utilities.....	62,288,980	68,966,538	85,807,868	81,710,063	80,348,246	81,351,521	82,914,964	84,355,976	99.2	80.8
Coal.....	31,636,037	31,710,476	39,731,623	37,957,468	37,739,559	39,419,177	39,750,729	40,056,468	50.4	38.4
Petroleum.....	116,407	63,610	311,787	51,061	46,706	39,414	41,127	71,761	0.2	0.1
Natural Gas.....	2,271,504	1,729,497	9,106,433	5,238,416	6,580,927	6,812,355	10,739,962	13,232,997	3.6	12.7
Nuclear.....	20,597,689	26,984,507	28,724,076	30,861,911	28,581,053	28,112,609	25,807,446	24,012,231	32.8	23.0
Hydroelectric.....	7,417,576	8,288,419	7,623,565	7,427,180	7,074,984	6,973,147	6,410,064	6,792,904	11.8	6.5
Other Renewables.....	-	-	34,090	50,063	41,426	48,259	58,271	41,063	-	*
Pumped Storage.....	249,767	190,029	276,294	123,964	283,590	-53,440	107,365	148,552	0.4	0.1
Independent Power Producers and Combined Heat and Power.....	485,317	814,401	4,103,404	12,421,603	14,047,972	23,212,622	18,563,690	20,036,552	0.8	19.2
Coal.....	279,573	241,183	329,871	269,163	351,850	394,690	392,581	386,378	0.4	0.4
Petroleum.....	35,460	18,947	2,419	6,385	1,970	1,102	2,081	1,637	0.1	*
Natural Gas.....	62,396	463,450	3,765,767	12,054,599	12,351,714	21,449,276	18,153,305	19,636,033	0.1	18.8
Other Renewables.....	107,888	90,821	5,347	3,742	3,843	4	15,724	12,504	0.2	*
Other.....	-	-	-	87,714	1,338,595	1,367,550	-	-	-	-
Total Electric Industry.....	62,774,297	69,780,939	89,911,272	94,131,666	94,396,218	104,564,143	101,478,654	104,392,528	100.0	100.0
Coal.....	31,915,610	31,951,659	40,061,494	38,226,631	38,091,409	39,813,867	40,143,310	40,442,846	50.8	38.7
Petroleum.....	151,867	82,557	314,206	57,446	48,676	40,516	43,208	73,398	0.2	0.1
Natural Gas.....	2,333,900	2,192,947	12,872,200	17,293,015	18,932,641	28,261,631	28,893,267	32,869,030	3.7	31.5
Nuclear.....	20,597,689	26,984,507	28,724,076	30,861,911	28,581,053	28,112,609	25,807,446	24,012,231	32.8	23.0
Hydroelectric.....	7,417,576	8,288,419	7,623,565	7,427,180	7,074,984	6,973,147	6,410,064	6,792,904	11.8	6.5
Other Renewables.....	107,888	90,821	39,437	53,805	45,269	48,263	73,995	53,567	0.2	0.1
Pumped Storage.....	249,767	190,029	276,294	123,964	283,590	-53,440	107,365	148,552	0.4	0.1
Other.....	-	-	-	87,714	1,338,595	1,367,550	-	-	-	-

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1990, 1995, and 2001 Through 2006

Fuel, Quality	1990	1995	2001	2002	2003	2004	2005	2006
Arizona								
Coal (cents per million Btu)	143	139	125	W	W	W	W	W
Average heat value (Btu per pound)	10,482	10,274	10,145	10,232	10,081	10,211	10,088	10,011
Average sulfur Content (percent)	0.49	0.53	0.58	0.60	0.64	0.57	0.57	0.57
Petroleum (cents per million Btu)	446	510	706	W	W	W	1,403	1,625
Average heat value (Btu per gallon)	142,831	139,933	143,333	139,567	139,550	133,595	140,912	139,114
Average sulfur Content (percent)	0.48	0.33	0.77	0.07	0.20	0.25	0.31	0.16
Natural Gas (cents per million Btu)	237	173	460	320	506	572	804	636
Average heat value (Btu per cubic foot)	1,034	1,022	1,020	1,021	1,021	1,021	1,025	1,018

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1990, 1995, and 2001 Through 2006
(Thousand Metric Tons)

Emission Type	1990	1995	2001	2002	2003	2004	2005	2006
Arizona								
Sulfur Dioxide								
Coal.....	113	124	66	64	63	55	48	45
Petroleum.....	*	*	1	*	*	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other.....	1	1	-	-	-	-	-	*
Total.....	115	125	67	64	63	55	48	45
Nitrogen Oxide								
Coal.....	145	141	76	74	73	73	71	71
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	3	3	12	9	10	4	4	4
Other.....	*	*	*	*	*	*	*	*
Total.....	149	144	89	83	83	78	75	75
Carbon Dioxide								
Coal.....	31,336	31,622	39,107	37,404	37,538	39,225	39,507	39,867
Petroleum.....	111	62	299	51	43	40	35	58
Natural Gas.....	1,265	1,199	6,988	7,858	9,077	12,992	11,814	13,429
Other Renewables.....	-	-	-	108	-	-	-	-
Total.....	32,712	32,884	46,394	45,421	46,657	52,257	51,357	53,353

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1990, 1995, and 2001 Through 2006

Sector	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
Arizona										
Retail Sales (thousand megawatthours)										
Residential.....	15,378	18,036	26,200	26,413	27,742	28,921	30,544	32,367	37.1	44.2
Commercial.....	13,731	16,290	22,045	22,371	25,425	26,106	27,468	28,626	33.1	39.1
Industrial.....	10,034	11,992	11,377	11,026	10,914	11,906	11,379	12,259	24.2	16.7
Other.....	2,327	2,272	2,652	2,791	NA	NA	NA	NA	5.6	NA
All Sectors.....	41,470	48,589	62,274	62,601	64,080	66,933	69,391	73,253	100.0	100.0
Retail Revenue (million dollars).....										
Residential.....	1,390	1,640	2,174	2,185	2,316	2,447	2,707	3,042	43.2	50.4
Commercial.....	1,139	1,313	1,624	1,629	1,803	1,901	2,032	2,295	35.4	38.0
Industrial.....	560	631	597	573	587	637	665	698	17.4	11.6
Other.....	126	117	131	127	NA	NA	NA	NA	3.9	NA
All Sectors.....	3,215	3,700	4,526	4,514	4,706	4,985	5,404	6,034	100.0	100.0
Average Retail Prices (cents/KWh)										
Residential.....	9.04	9.09	8.30	8.27	8.35	8.46	8.86	9.40	NA	NA
Commercial.....	8.29	8.06	7.37	7.28	7.09	7.28	7.40	8.02	NA	NA
Industrial.....	5.58	5.26	5.24	5.20	5.37	5.35	5.85	5.69	NA	NA
Other.....	5.41	5.15	4.93	4.56	NA	NA	NA	NA	NA	NA
All Sectors.....	7.75	7.62	7.27	7.21	7.34	7.45	7.79	8.24	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2006

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities	5	28	3	9	NA	NA	NA	45
Number of Retail Customers	1,534,948	1,003,973	19,258	172,191	NA	NA	NA	2,730,370
Retail Sales (thousand megawatthours)	40,474	28,683	1,443	2,653	NA	NA	NA	73,253
Percentage of Retail Sales	55.25	39.16	1.97	3.62	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	3,524	2,190	56	264	NA	NA	NA	6,034
Percentage of Revenue	58.40	36.30	0.93	4.37	NA	NA	NA	100.00
Average Retail Price (cents/kWh)	8.71	7.64	3.90	9.95	NA	NA	NA	8.24

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 services. 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.

Table 10. Supply and Disposition of Electricity, 1990, 1995, and 2001 Through 2006
(Million Kilowatthours)

Category	1990	1995	2001	2002	2003	2004	2005	2006
Arizona								
Supply								
Generation								
Electric Utilities	62,289	68,967	85,808	81,710	80,348	81,352	82,915	84,356
Independent Power Producers	-	-	3,290	10,954	11,851	20,891	16,390	17,617
Combined Heat and Power, Electric	-	399	459	1,153	1,823	1,874	1,689	1,959
Electric Power Sector Generation Subtotal	62,289	69,365	89,557	93,817	94,023	104,116	100,994	103,932
Combined Heat and Power, Commercial	30	32	23	18	17	51	72	72
Combined Heat and Power, Industrial	455	384	332	296	356	397	413	389
Industrial and Commercial Generation Subtotal	485	416	355	314	374	448	484	461
Total Net Generation	62,774	69,781	89,911	94,132	94,396	104,564	101,479	104,393
Total International Imports	-	337	55	83	56	171	118	128
Total Supply	62,774	70,117	89,966	94,214	94,453	104,735	101,597	104,520
Disposition								
Retail Sales								
Full Service Providers	41,470	48,589	62,274	62,601	64,080	66,933	69,391	73,253
Total Electric Industry Retail Sales	41,470	48,589	62,274	62,601	64,080	66,933	69,391	73,253
Direct Use	446	390	361	369	374	374	502	269
Total International Exports	2	2	-	69	71	94	179	310
Estimated Losses	3,109	3,689	2,988	4,399	3,671	4,568	5,364	5,411
Total Disposition	45,027	52,670	65,624	67,437	68,195	71,969	75,436	79,242
Net Interstate Trade	17,747	17,447	24,342	26,777	26,257	32,767	26,161	25,278
Net Trade Index (ratio)	1.39	1.33	1.37	1.40	1.39	1.46	1.35	1.32

R = Revised.

NA = Not applicable; NM = Not meaningful.

W = Withheld to avoid disclosure of individual company data.

- = Data not available.

* = 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 10 Notes: Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. Net Interstate Trade represents the difference between the amount of electricity produced in the State and consumed in the State. Positive values indicate a State that is a net interstate exporter of electricity; negative values indicate a State that is a net interstate importer of electricity. The Net Trade Index represents a State's electricity self-sufficiency. Values greater than 1 indicate that, on an annual net basis, the State supplied electricity consumed outside the State; values less than 1 indicate that, on an annual net basis, the State consumed electricity produced outside the State.

General Notes: Table 4 "Other Renewables" includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind. The "Other" category includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies. However, Table 5 "Other Renewables" includes only biogenic municipal solid waste, in addition to wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind. In Table 5 "Other" includes Non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies. In Table 7, "Other Renewables" emissions include biogenic municipal solid waste, and other renewable 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.