

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Arizona		
NERC Region(s).....		WSCC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	19,442	19
Electric Utilities	15,699	15
Independent Power Producers & Combined Heat and Power	3,743	19
Net Generation (megawatthours).....	94,131,666	18
Electric Utilities	81,710,063	12
Independent Power Producers & Combined Heat and Power	12,421,603	19
Emissions (thousand short tons)		
Sulfur Dioxide.....	72	31
Nitrogen Oxide.....	88	25
Carbon Dioxide.....	49,298	19
Sulfur Dioxide/sq. mile.....	1	38
Nitrogen Oxide/sq. mile.....	1	38
Carbon Dioxide/sq. mile.....	434	38
Utility and ESP Retail Electricity Sales (megawatthours).....	62,600,737	23
Utility Retail Electricity Sales (megawatthours)	62,600,737	22
Direct Use (megawatthours).....	12,093	41
Average Retail Price (cents/kWh).....	7.21	16

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Arizona			
1. Palo Verde	Nuclear	Arizona Public Service Co	3,733
2. Navajo	Petroleum, Coal	Salt River Proj Ag I & P Dist	2,250
3. Glen Canyon Dam.....	Hydro	U S Bureau of Reclamation	1,296
4. Hoover Dam.....	Hydro	U S Bureau of Reclamation	1,040
5. Cholla	Gas, Petroleum, Coal	Arizona Public Service Co	995
6. Redhawk.....	Gas	Pinnacle West Energy	918
7. Springerville.....	Petroleum, Coal	Tucson Electric Power Co	800
8. Coronado	Petroleum, Coal	Salt River Proj Ag I & P Dist	785
9. Agua Fria	Petroleum, Other, Gas	Salt River Proj Ag I & P Dist	626
10. Desert Basin.....	Gas	Reliant Energy Desert Basin LP	598

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Arizona					
A. Arizona Public Service Company	23,361,755	10,443,820	10,589,065	2,224,922	103,948
B. Salt River Project.....	22,783,685	10,440,416	8,358,335	3,139,132	845,802
C. Tucson Electric Power Company.....	8,012,420	3,188,728	1,609,366	2,956,685	257,641
D. Morenci Water & Electric Co.....	1,575,877	10,021	13,637	1,552,219	0
E. Citizens Communications Co	1,323,612	639,559	387,074	77,407	219,572
Total	57,057,349	24,722,544	20,957,477	9,950,365	1,426,963
Percentage of Utility Sales.....	91	94	94	90	51

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arizona							
Coal	5,108	5,256	5,336	0.5	33.7	34.3	27.4
Petroleum	97	85	108	1.2	.6	.6	.6
Natural Gas	233	107	539	9.8	1.5	.7	2.8
Dual Fired	3,006	3,045	3,060	.2	19.9	19.9	15.7
Nuclear	3,810	3,778	3,733	-.2	25.2	24.7	19.2
Hydroelectric	2,781	2,893	2,919	.5	18.4	18.9	15.0
Other Renewables	0	*	5	NM	.0	.0	.0
Total Electric Utilities	15,034	15,164	15,699	.5	99.3	99.0	80.7
Coal	51	51	68	3.3	.3	.3	.3
Petroleum	5	5	4	-3.6	.0	.0	.0
Natural Gas	2	56	3,658	137.4	.0	.4	18.8
Dual Fired	48	45	13	-13.3	.3	.3	.1
Total IPP's & Combined Heat and Power	105	157	3,743	48.7	.7	1.0	19.3
Coal	5,159	5,307	5,404	.5	34.1	34.6	27.8
Petroleum	102	90	112	1.0	.7	.6	.6
Natural Gas	235	163	4,198	37.8	1.5	1.1	21.6
Dual Fired	3,054	3,090	3,073	.1	20.2	20.2	15.8
Nuclear	3,810	3,778	3,733	-.2	25.2	24.7	19.2
Hydroelectric	2,781	2,893	2,919	.5	18.4	18.9	15.0
Other Renewables	0	*	5	NM	.0	.0	.0
Total Electric Industry	15,140	15,321	19,442	2.8	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arizona							
Coal	37,020,817	34,219,281	37,957,468	0.3	54.1	43.4	40.3
Petroleum	59,875	60,927	51,061	-1.8	.1	.1	.1
Natural Gas	1,872,396	2,064,599	5,238,416	12.1	2.7	2.6	5.6
Nuclear	22,048,880	29,314,200	30,861,911	3.8	32.2	37.2	32.8
Hydroelectric	7,023,071	12,401,491	7,551,144	.8	10.3	15.7	8.0
Other Renewables	0	0	50,063	NM	.0	.0	.1
Total Electric Utilities	68,025,039	78,060,498	81,710,063	2.1	99.4	99.0	86.8
Coal	251,378	259,567	269,163	.8	.4	.3	.3
Petroleum	25,568	4,754	6,385	-14.3	.0	.0	.0
Natural Gas	64,153	419,212	12,054,599	78.9	.1	.5	12.8
Other Renewables	102,849	81,170	91,456	-1.3	.2	.1	.1
Total IPP's & Combined Heat and Power	443,947	764,703	12,421,603	44.8	.6	1.0	13.2
Coal	37,272,195	34,478,848	38,226,631	.3	54.4	43.7	40.6
Petroleum	85,443	65,681	57,446	-4.3	.1	.1	.1
Natural Gas	1,936,549	2,483,811	17,293,015	27.5	2.8	3.2	18.4
Nuclear	22,048,880	29,314,200	30,861,911	3.8	32.2	37.2	32.8
Hydroelectric	7,023,071	12,401,491	7,551,144	.8	10.3	15.7	8.0
Other Renewables	102,849	81,170	141,519	3.6	.2	.1	.2
Total Electric Industry	68,468,986	78,825,201	94,131,666	3.6	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Arizona				
Coal (2002 cents per million Btu)	150.8	146.4	125.8	-2.0
Average heat value (Btu per pound).....	10,271	10,159	10,151	-.1
Average sulfur Content(percent)5	.5	.6	2.2
Petroleum (2002 cents per million Btu)	570.1	546.6	653.5	1.5
Average heat value (Btu per gallon).....	140,535	140,337	138,007	-.2
Average sulfur Content(percent)0	.0	.1	NM
Gas (2002 cents per million Btu).....	312.9	302.6	320.1	.3
Average heat value (Btu per cubic foot).....	1,027	1,014	1,018	-.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Arizona				
Sulfur Dioxide				
Coal	132	134	71	-6.6
Petroleum	*	*	*	-24.6
Gas.....	0	0	*	NM
Other.....	*	*	0	NM
Total	133	135	72	-6.6
Nitrogen Oxide				
Coal	128	79	82	-4.9
Petroleum	*	*	0	NM
Gas.....	3	3	6	8.6
Other.....	*	*	*	-16.6
Total	131	82	88	-4.4
Carbon Dioxide				
Coal	38,857	36,953	40,624	.5
Petroleum	73	58	51	-3.8
Gas.....	1,266	1,591	8,623	23.8
Total	40,196	38,601	49,298	2.3

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Arizona							
Retail Sales (thousand megawatthours)							
Residential.....	16,705	20,683	26,413	5.2	37.6	38.0	42.2
Commercial.....	14,813	17,788	22,371	4.7	33.4	32.7	35.7
Industrial.....	10,989	13,253	11,026	*	24.8	24.3	17.6
Other.....	1,901	2,732	2,791	4.4	4.3	5.0	4.5
Total.....	44,408	54,456	62,601	3.9	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,795	1,874	2,185	2.2	44.2	45.4	48.4
Commercial.....	1,435	1,432	1,629	1.4	35.3	34.7	36.1
Industrial.....	710	688	573	-2.3	17.5	16.6	12.7
Other.....	119	136	127	.7	2.9	3.3	2.8
Total.....	4,060	4,130	4,514	1.2	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	10.75	9.06	8.27	-2.9	NA	NA	NA
Commercial.....	9.69	8.05	7.28	-3.1	NA	NA	NA
Industrial.....	6.46	5.19	5.20	-2.4	NA	NA	NA
Other.....	6.28	4.98	4.56	-3.5	NA	NA	NA
Total.....	9.14	7.58	7.21	-2.6	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Arizona						
Number of Entities.....	5	27	3	10	0	45
Number of Retail Customers.....	1,336,955	848,059	20,146	146,603	0	2,351,763
Retail Sales (thousand megawatthours).....	34,286	24,927	1,274	2,114	0	62,601
Percentage of Retail Sales.....	54.77	39.82	2.04	3.38	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	2,690	1,602	40	182	0	4,514
Percentage of Revenue.....	59.59	35.49	.89	4.03	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	7.85	6.43	3.16	8.60	0	7.21

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = 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 "**").