

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
California		
NERC Region(s).....		WSCC
Primary Energy Source		Gas
Net Summer Capability (megawatts).....	56,663	2
Electric Utilities	24,609	5
Independent Power Producers & Combined Heat and Power	32,054	4
Net Generation (megawatthours).....	184,210,030	5
Electric Utilities	74,588,271	15
Independent Power Producers & Combined Heat and Power	109,621,759	4
Emissions (thousand short tons)		
Sulfur Dioxide	48	37
Nitrogen Oxide	72	31
Carbon Dioxide	52,627	17
Sulfur Dioxide/sq. mile.....	0	46
Nitrogen Oxide/sq. mile.....	0	42
Carbon Dioxide/sq. mile.....	337	40
Utility and ESP Retail Electricity Sales (megawatthours).....	235,248,942	2
Utility Retail Electricity Sales (megawatthours)	171,531,228	3
ESP Retail Electricity Sales (megawatthours).....	63,717,714	1
Direct Use (megawatthours).....	29,270,234	2
Average Retail Price (cents/kWh).....	12.50	2

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
California			
1. Moss Landing Power Pl.....	Gas	Duke Energy North America LLC	2,680
2. Diablo Canyon.....	Nuclear	Pacific Gas & Electric Co	2,174
3. San Onofre	Nuclear	Southern California Edison Co	2,150
4. AES Alamitos LLC	Gas	AES Alamitos LLC	2,083
5. Pittsburg Power.....	Gas	Mirant Delta LLC	1,906
6. Haynes.....	Gas	Los Angeles City of	1,570
7. Ormond Beach.....	Gas	Reliant Energy Ormond Bch LLC	1,499
8. Castaic.....	Hydro	Los Angeles City of	1,495
9. AES Redondo Beach LLC.....	Gas	AES Redondo Beach LLC	1,310
10. Helms Pumped Storage.....	Hydro	Pacific Gas & Electric Co	1,212

See footnotes at end of tables.

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

Utility	All Sectors	Residential	Commercial	Industrial	Other
California					
A. Southern California Edison Co	54,391,384	20,369,957	26,434,396	6,952,221	634,810
B. Pacific Gas and Electric Co	49,830,092	19,088,200	22,933,040	7,179,531	629,321
C. California DWR-Elec Power Fund	45,153,230	16,932,597	21,346,415	6,450,410	423,808
D. Los Angeles Dept of Wtr & Pwr.....	22,289,149	7,344,707	11,956,556	2,454,582	533,304
E. Sacramento Municipal Util Dist.....	9,505,300	4,093,714	631,710	4,699,565	80,311
Total	181,169,155	67,829,175	83,302,117	27,736,309	2,301,554
Percentage of Utility Sales.....	77	86	77	67	32

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
California							
Petroleum	558	590	184	-11.6	1.0	1.1	0.3
Natural Gas	18,022	18,731	1,572	-23.7	33.1	34.8	2.8
Dual Fired	6,258	4,945	4,494	-3.6	11.5	9.2	7.9
Nuclear	4,310	4,310	4,324	.0	7.9	8.0	7.6
Hydroelectric	13,448	13,537	13,770	.3	24.7	25.1	24.3
Other Renewables	1,716	1,597	265	-18.7	3.2	3.0	.5
Total Electric Utilities	44,313	43,709	24,609	-6.3	81.4	81.2	43.4
Coal	439	420	352	-2.4	.8	.8	.6
Petroleum	48	46	521	30.2	.1	.1	.9
Natural Gas	3,646	4,468	23,744	23.1	6.7	8.3	41.9
Other Gases	213	171	226	.7	.4	.3	.4
Dual Fired	956	631	2,034	8.7	1.8	1.2	3.6
Hydroelectric	593	588	323	-6.5	1.1	1.1	.6
Other Renewables	4,192	3,819	4,837	1.6	7.7	7.1	8.5
Other	9	9	17	7.8	.0	.0	.0
Total IPP's & Combined Heat and Power	10,095	10,152	32,054	13.7	18.6	18.8	56.6
Coal	439	420	352	-2.4	.8	.8	.6
Petroleum	607	636	705	1.7	1.1	1.2	1.2
Natural Gas	21,668	23,198	25,317	1.7	39.8	43.1	44.7
Other Gases	213	171	226	.7	.4	.3	.4
Dual Fired	7,215	5,576	6,527	-1.1	13.3	10.4	11.5
Nuclear	4,310	4,310	4,324	.0	7.9	8.0	7.6
Hydroelectric	14,041	14,125	14,094	.0	25.8	26.2	24.9
Other Renewables	5,908	5,416	5,102	-1.6	10.9	10.1	9.0
Other	9	9	17	7.8	.0	.0	.0
Total Electric Industry	54,408	53,861	56,663	.5	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
California							
Petroleum	2,007,674	141,872	43,933	-34.6	1.1	0.1	0.0
Natural Gas	46,499,103	36,300,778	8,808,012	-16.9	24.9	21.0	4.8
Nuclear	31,580,692	30,512,118	34,352,340	.9	16.9	17.7	18.6
Hydroelectric	38,264,443	39,797,042	29,995,647	-2.7	20.5	23.0	16.3
Other Renewables	7,430,151	5,431,253	1,388,339	-17.0	4.0	3.1	.8
Total Electric Utilities	125,782,063	112,183,063	74,588,271	-5.6	67.3	64.9	40.5
Coal	3,129,951	2,331,970	2,327,809	-3.2	1.7	1.3	1.3
Petroleum	1,594,009	1,950,319	1,917,133	2.1	.9	1.1	1.0
Natural Gas	33,145,067	34,701,286	80,816,032	10.4	17.7	20.1	43.9
Other Gases	3,097,462	2,984,277	1,240,053	-9.7	1.7	1.7	.7
Hydroelectric	2,511,007	2,271,408	903,984	-10.7	1.3	1.3	.5
Other Renewables	17,719,662	16,353,592	22,292,229	2.6	9.5	9.5	12.1
Other	11,423	21,680	124,520	30.4	.0	.0	.1
Total IPP's & Combined Heat and Power	61,208,582	60,614,532	109,621,759	6.7	32.7	35.1	59.5
Coal	3,129,951	2,331,970	2,327,809	-3.2	1.7	1.3	1.3
Petroleum	3,601,683	2,092,191	1,961,066	-6.5	1.9	1.2	1.1
Natural Gas	79,644,170	71,002,064	89,624,044	1.3	42.6	41.1	48.7
Other Gases	3,097,462	2,984,277	1,240,053	-9.7	1.7	1.7	.7
Nuclear	31,580,692	30,512,118	34,352,340	.9	16.9	17.7	18.6
Hydroelectric	40,775,450	42,068,450	30,899,631	-3.0	21.8	24.3	16.8
Other Renewables	25,149,813	21,784,845	23,680,568	-7	13.4	12.6	12.9
Other	11,423	21,680	124,520	30.4	.0	.0	.1
Total Electric Industry	186,990,645	172,797,595	184,210,030	-2	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)
California				
Coal (2002 cents per million Btu)	0.0	0.0	180.2	NM
Average heat value (Btu per pound)	0	0	11,868	NM
Average sulfur Content(percent)0	.0	.5	NM
Petroleum (2002 cents per million Btu)	261.7	.0	114.4	-8.8
Average heat value (Btu per gallon)	146,727	0	96,990	-4.5
Average sulfur Content(percent)3	.0	1.9	23.9
Gas (2002 cents per million Btu)	330.3	310.6	372.1	1.3
Average heat value (Btu per cubic foot)	1,030	1,019	1,019	-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)
California				
Sulfur Dioxide				
Coal	23	20	6	-13.9
Petroleum	16	25	42	11.1
Gas.....	*	*	*	.0
Other.....	1	1	1	3.0
Total	40	46	48	2.2
Nitrogen Oxide				
Coal	12	9	9	-3.4
Petroleum	5	6	8	5.6
Gas.....	61	46	44	-3.6
Other.....	10	10	11	.9
Total	89	70	72	-2.3
Carbon Dioxide				
Coal	3,365	2,330	2,600	-2.8
Petroleum	3,503	2,420	3,019	-1.6
Gas.....	44,487	39,565	46,901	.6
Other.....	103	99	106	.3
Total	51,459	44,414	52,627	.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
California							
Retail Sales (thousand megawatthours)							
Residential.....	67,359	73,086	78,556	1.7	32.0	32.1	33.4
Commercial.....	79,058	83,570	108,295	3.6	37.6	36.7	46.0
Industrial	56,189	62,017	41,124	-3.4	26.7	27.2	17.5
Other	7,894	9,203	7,274	-9	3.8	4.0	3.1
Total	210,500	227,876	235,249	1.2	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	8,481	8,638	10,136	2.0	37.3	38.6	34.5
Commercial.....	9,212	8,573	14,321	5.0	40.5	38.4	48.7
Industrial	4,590	4,431	4,454	-.3	20.2	19.8	15.1
Other	444	710	486	1.0	1.9	3.2	1.6
Total	22,726	22,352	29,398	2.9	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	12.59	11.82	12.90	.3	NA	NA	NA
Commercial.....	11.65	10.26	13.22	1.4	NA	NA	NA
Industrial	8.17	7.14	10.83	3.2	NA	NA	NA
Other	5.62	7.71	6.68	1.9	NA	NA	NA
Total	10.80	9.81	12.50	1.6	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
California						
Number of Entities.....	6	35	0	4	14	59
Number of Retail Customers.....	10,563,127	2,968,938	0	14,377	76,483	13,622,925
Retail Sales (thousand megawatthours).....	112,860	58,411	0	260	63,718	235,249
Percentage of Retail Sales.....	47.97	24.83	.00	.11	27.09	100.00
Revenue from Retail Sales (million 2002 dollars).....	18,821	5,210	0	22	5,345	29,398
Percentage of Revenue.....	64.02	17.72	.00	.08	18.18	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	16.68	8.92	.00	8.54	0	12.50

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 "**".)