

Table 1. 2006 Summary Statistics

Item	Value	U.S. Rank
California		
NERC Region(s).....		WECC
Primary Energy Source.....		Gas
Net Summer Capacity (megawatts)	63,213	2
Electric Utilities.....	26,346	3
Independent Power Producers & Combined Heat and Power.....	36,867	4
Net Generation (megawatthours).....	216,798,688	4
Electric Utilities.....	100,338,454	6
Independent Power Producers & Combined Heat and Power.....	116,460,234	4
Emissions (thousand metric tons)		
Sulfur Dioxide	27	38
Nitrogen Oxide.....	91	15
Carbon Dioxide.....	59,389	15
Sulfur Dioxide (lbs/MWh)	0.3	49
Nitrogen Oxide (lbs/MWh)	0.9	45
Carbon Dioxide (lbs/MWh).....	604	47
Total Retail Sales (megawatthours).....	262,958,528	2
Full Service Provider Sales (megawatthours)	241,735,246	2
Deregulated Sales (megawatthours)	21,223,282	4
Direct Use (megawatthours)	14,030,060	3
Average Retail Price (cents/kWh).....	12.82	8

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)
California			
1. Moss Landing Power Plant.....	Gas	LS Power-Moss Landing LLC	2,498
2. Diablo Canyon.....	Nuclear	Pacific Gas & Electric Co	2,240
3. San Onofre.....	Nuclear	Southern California Edison Co	2,150
4. AES Alamos LLC	Gas	AES Alamos LLC	1,997
5. Haynes	Gas	Los Angeles City of	1,581
6. Ormond Beach.....	Gas	Reliant Energy Ormond Bch LLC	1,516
7. Castaic	Pumped Storage	Los Angeles City of	1,495
8. Pittsburg Power.....	Gas	Mirant Delta LLC	1,311
9. AES Redondo Beach LLC.....	Gas	AES Redondo Beach LLC	1,310
10. Helms Pumped Storage	Pumped Storage	Pacific Gas & Electric Co	1,212

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
California						
1. Southern California Edison Co.....	Investor-Owned	78,863,143	30,048,395	40,053,995	8,697,668	63,085
2. Pacific Gas & Electric Co.....	Investor-Owned	76,817,131	30,957,122	34,906,900	10,953,109	-
3. Los Angeles City of.....	Public	24,313,734	7,609,278	14,158,093	2,395,060	151,303
4. San Diego Gas & Electric Co.....	Investor-Owned	16,846,854	7,500,838	6,987,017	2,260,919	98,080
5. Sacramento Municipal Util Dist.....	Public	10,799,230	4,764,852	668,973	5,332,157	33,248
Total Sales, Top Five Providers		207,640,092	80,880,485	96,774,978	29,638,913	345,716
Percent of Total State Sales		79	90	80	58	39

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
California										
Electric Utilities.....	43,681	43,302	24,405	24,609	23,223	23,867	25,248^R	26,346	82.1	41.7
Petroleum.....	2,800 ^R	1,692 ^R	524	296	297	297	297	245	5.3	0.4
Natural Gas.....	21,815 ^R	22,040 ^R	5,733	5,954	5,042	5,567	6,850 ^R	7,917	41.0	12.5
Nuclear.....	4,746	4,310	4,324	4,324	4,324	4,324	4,324	4,390	8.9	6.9
Hydroelectric.....	9,199	9,807	9,848	10,040	9,716	9,840	9,849 ^R	9,844	17.3	15.6
Other Renewables.....	1,595	1,723	247	265	156	150	240	261	3.0	0.4
Pumped Storage.....	3,526	3,730	3,730	3,730	3,688	3,688	3,688	3,688	6.6	5.8
Independent Power Producers and Combined Heat and Power	9,534	10,187	30,077	32,054	34,628	34,440	36,460^R	36,867	17.9	58.3
Coal.....	432	420	363	352	358	389	389	389	0.8	0.6
Petroleum.....	168	174	558	541	527	541	543	544	0.3	0.9
Natural Gas.....	4,260	4,746	23,712	25,758	28,248	27,871	29,850 ^R	30,084	8.0	47.6
Other Gases.....	107	176	281	226	225	235	191	171	0.2	0.3
Hydroelectric.....	568	638	483	323	232	238	239 ^R	239	1.1	0.4
Other Renewables.....	3,999	4,024	4,669 ^R	4,837	5,022	5,158	5,240	5,431	7.5	8.6
Other.....	-	9	13 ^R	17	17	8	8	8	-	*
Total Electric Industry.....	53,215	53,489	54,482	56,663	57,850	58,306	61,707	63,213	100.0	100.0
Coal.....	432	420	363	352	358	389	389	389	0.8	0.6
Petroleum.....	2,968 ^R	1,866 ^R	1,082	837	824	838	840	789	5.6	1.2
Natural Gas.....	26,075 ^R	26,786 ^R	29,444	31,712	33,290	33,438	36,700	38,001	49.0	60.1
Other Gases.....	107	176	281	226	225	235	191	171	0.2	0.3
Nuclear.....	4,746	4,310	4,324	4,324	4,324	4,324	4,324	4,390	8.9	6.9
Hydroelectric.....	9,767	10,446	10,331	10,364	9,947	10,078	10,088	10,083	18.4	16.0
Other Renewables.....	5,594	5,746	4,916 ^R	5,102	5,177	5,308	5,479	5,693	10.5	9.0
Pumped Storage.....	3,526	3,730	3,730	3,730	3,688	3,688	3,688	3,688	6.6	5.8
Other.....	-	9	13 ^R	17	17	8	8	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
California										
Electric Utilities.....	114,528,000	121,881,402	70,132,656	74,588,271	81,728,209	75,177,122	89,348,213	100,338,454	69.1	46.3
Petroleum.....	4,385,235	488,530	316,691	43,933	50,996	51,482	57,974	58,991	2.6	*
Natural Gas.....	45,221,848	39,089,723	11,918,703	8,808,012	9,873,371	10,759,580	12,982,348	19,805,412	27.3	9.1
Nuclear.....	32,692,807	30,245,936	33,219,520	34,352,340	35,593,789	30,267,887	36,154,898	31,958,621	19.7	14.7
Hydroelectric.....	22,808,272	44,928,985	24,817,842	30,236,644	35,782,738	33,608,686	38,826,653	47,127,134	13.8	21.7
Other Renewables.....	8,433,586	4,621,563	209,589	1,333,863	1,339,627	1,306,318	1,206,547	1,292,159	5.1	0.6
Pumped Storage.....	986,252	2,506,665	-349,689	-240,997	-912,313	-816,831	119,793	96,137	0.6	*
Other.....	-	-	-	54,476	-	-	-	-	-	-
Independent Power Producers and Combined Heat and Power.....	51,256,909	59,581,939	128,463,419	109,621,760	111,060,333	119,603,232	110,944,605^R	116,460,234	30.9	53.7
Coal.....	2,637,677	2,786,844	2,232,851	2,327,809	2,326,305	2,244,355	2,145,020	2,239,343	1.6	1.0
Petroleum.....	1,088,617	1,802,598	2,738,202	1,917,132	2,341,253	2,214,436	2,518,348 ^R	2,360,896	0.7	1.1
Natural Gas.....	28,946,460	33,489,170	100,013,568	80,816,032	81,558,809	89,695,842	80,579,693 ^R	85,972,291	17.5	39.7
Other Gases.....	2,146,742	2,594,985	1,130,499	1,240,053	1,759,015	1,862,250	2,034,949	1,904,925	1.3	0.9
Hydroelectric.....	984,295	3,104,145	723,934	903,984	587,965	532,243	805,214 ^R	920,246	0.6	0.4
Other Renewables.....	15,453,118	15,788,401	21,420,027	22,073,117	22,205,492	22,635,780	22,441,864 ^R	22,598,454	9.3	10.4
Other.....	-	15,796	204,338	343,632	281,495	418,327	419,517	464,079	-	0.2
Total Electric Industry.....	165,784,909	181,463,341	198,596,075	184,210,031	192,788,542	194,780,354	200,292,818^R	216,798,688	100.0	100.0
Coal.....	2,637,677	2,786,844	2,232,851	2,327,809	2,326,305	2,244,355	2,145,020	2,239,343	1.6	1.0
Petroleum.....	5,473,852	2,291,128	3,054,893	1,961,065	2,392,249	2,265,918	2,576,322 ^R	2,419,887	3.3	1.1
Natural Gas.....	74,168,308	72,578,893	111,932,271	89,624,044	91,432,180	100,455,422	93,562,041 ^R	105,777,703	44.7	48.8
Other Gases.....	2,146,742	2,594,985	1,130,499	1,240,053	1,759,015	1,862,250	2,034,949	1,904,925	1.3	0.9
Nuclear.....	32,692,807	30,245,936	33,219,520	34,352,340	35,593,789	30,267,887	36,154,898	31,958,621	19.7	14.7
Hydroelectric.....	23,792,567	48,033,130	25,541,776	31,140,628	36,370,703	34,140,929	39,631,867 ^R	48,047,380	14.4	22.2
Other Renewables.....	23,886,704	20,409,964	21,629,616	23,406,980	23,545,119	23,942,098	23,648,411 ^R	23,890,613	14.4	11.0
Pumped Storage.....	986,252	2,506,665	-349,689	-240,997	-912,313	-816,831	119,793	96,137	0.6	*
Other.....	-	15,796	204,338	398,108	281,495	418,327	419,517	464,079	-	0.2

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
California								
Coal (cents per million Btu)	-	-	-	180	173	188	W	W
Average heat value (Btu per pound)	-	-	-	11,854	11,943	12,205	12,027	12,184
Average sulfur Content (percent)	-	-	-	0.48	0.68	0.75	0.79	0.86
Petroleum (cents per million Btu)	436	-	601	114	266	298	429	494
Average heat value (Btu per gallon)	146,026	-	131,667	137,952	124,229	134,633	129,557	128,124
Average sulfur Content (percent)	0.34	-	0.95	1.87	0.94	1.19	0.93	0.99
Natural Gas (cents per million Btu)	303	222	929	372	537	589	786	659
Average heat value (Btu per cubic foot)	1,033	1,027	1,020	1,019	1,026	1,027	1,025	1,026

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
California								
Sulfur Dioxide								
Coal.....	32	28	5	2	3	2	3	3
Petroleum.....	46	42	34	66	13	18	21	21
Natural Gas.....	*	*	*	*	*	*	*	*
Other.....	3	2	2	2	2	2	2	2
Total.....	82	72	41	70	17	22	26	27
Nitrogen Oxide								
Coal.....	16	16	5	3	3	3	3	3
Petroleum.....	9	7	11	9	6	4	5	5
Natural Gas.....	91	71	72	61	77	70	57	58
Other.....	12	10	19	16	20	20	21	25
Total.....	128	103	107	90	106	98	86	91
Carbon Dioxide								
Coal.....	3,811	4,219	3,791	3,986	3,847	3,905	3,698	3,853
Petroleum.....	5,014	2,970	3,889	3,019	3,076	2,962	3,292	3,237
Natural Gas.....	42,679	42,036	62,934	51,021	48,365	52,271	47,034	51,620
Geothermal.....	357	281	310	333	330	333	331	326
Other Renewables.....	477	469	334	1,311	366	348	325	353
Total.....	52,338	49,976	71,258	59,669	55,983	59,820	54,680	59,389

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
California										
Retail Sales (thousand megawatthours)										
Residential.....	66,575	68,783	76,668	77,202	82,926	83,361	85,610	89,836	31.5	34.2
Commercial.....	79,691	80,874	96,459	102,587	109,578	118,953	117,551	121,255	37.8	46.1
Industrial.....	55,892	57,367	63,041	48,448	49,909	48,812	50,242	50,991	26.5	19.4
Other.....	8,935	5,580	11,591	6,976	NA	NA	NA	NA	4.2	NA
Transportation.....	NA	NA	NA	NA	809	900	846	877	NA	0.3
All Sectors.....	211,093	212,605	247,759	235,213	243,221	252,026	254,250	262,959	100.0	100.0
Retail Revenue (million dollars)										
Residential.....	6,646	7,983	9,269	9,759	10,142	10,168	10,708	12,876	35.6	38.2
Commercial.....	7,541	8,485	11,716	13,710	13,672	13,846	14,007	15,636	40.4	46.4
Industrial.....	4,071	4,226	5,819	4,752	4,787	4,526	4,797	5,145	21.8	15.3
Other.....	404	376	983	460	NA	NA	NA	NA	2.2	NA
Transportation.....	NA	NA	NA	NA	47	58	55	55	NA	0.2
All Sectors.....	18,664	21,070	27,787	28,680	28,648	28,598	29,567	33,712	100.0	100.0
Average Retail Prices (cents/KWh)										
Residential.....	9.98	11.61	12.09	12.64	12.23	12.20	12.51	14.33	NA	NA
Commercial.....	9.46	10.49	12.15	13.36	12.48	11.64	11.92	12.90	NA	NA
Industrial.....	7.28	7.37	9.23	9.81	9.59	9.27	9.55	10.09	NA	NA
Other.....	4.53	6.73	8.48	6.60	NA	NA	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	5.80	6.42	6.55	6.29	NA	NA
All Sectors.....	8.84	9.91	11.22	12.19	11.78	11.35	11.63	12.82	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	
California								
Number of Entities	6	36	1	4	13	12	3	75
Number of Retail Customers	11,317,780	3,141,458	68	15,948	16	45,599	NA	14,520,869
Retail Sales (thousand megawatthours)	174,062	61,946	3,016	283	2,428	21,223	NA	262,959
Percentage of Retail Sales	66.19	23.56	1.15	0.11	0.92	8.07	NA	100.00
Revenue from Retail Sales (million dollars)	24,773	6,199	56	28	178	1,573	906	33,712
Percentage of Revenue	73.48	18.39	0.17	0.08	0.53	4.67	2.69	100.00
Average Retail Price (cents/kWh)	14.23	10.01	1.85	10.00	7.34	7.41	4.27	12.82

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
California								
Supply								
Generation								
Electric Utilities	114,528	121,881	70,133	74,588	81,728	75,177	89,348	100,338
Independent Power Producers	15,407	18,957	88,665	63,545	65,429	75,928	68,721	76,509
Combined Heat and Power, Electric	17,547	21,691	21,305	26,976	25,458	24,567	23,459	21,399
Electric Power Sector Generation Subtotal	147,482	162,529	180,103	165,109	172,616	175,672	181,527	198,247
Combined Heat and Power, Commercial	1,730	2,081	1,825	1,958	2,071	1,918	2,151	2,118
Combined Heat and Power, Industrial	16,572	16,854	16,669	17,142	18,102	17,191	16,614	16,434
Industrial and Commercial Generation Subtotal	18,302	18,934	18,493	19,101	20,173	19,109	18,765	18,552
Total Net Generation	165,785	181,463	198,596	184,210	192,789	194,780	200,293	216,799
Total International Imports	5,142	1,967	3,420	2,067	1,267	1,291	1,667	2,936
Total Supply	170,927	183,431	202,016	186,277	194,056	196,071	201,960	219,735
Disposition								
Retail Sales								
Full Service Providers	211,093	212,605	237,661	212,572	217,641	225,896	228,582	239,307
Energy-Only Providers	-	-	10,098	22,641	23,896	24,625	23,406	21,223
Facility Direct Retail Sales	-	-	-	-	1,684	1,505	2,262	2,428
Total Electric Industry Retail Sales	211,093	212,605	247,759	235,213	243,221	252,026	254,250	262,959
Direct Use	9,654	10,615	14,674	14,993	15,183	15,199	11,673	14,030
Total International Exports	524	101	365	197	23	48	103	565
Estimated Losses	15,827	16,140	18,840	11,154	21,265	19,246	18,568	20,957
Total Disposition	237,098	239,461	281,638	261,557	279,692	286,519	284,594	298,510
Net Interstate Trade	-66,171	-56,031	-79,622	-75,281	-85,637	-90,448	-82,634	-78,775
Net Trade Index (ratio)	0.72	0.77	0.72	0.71	0.69	0.68	0.71	0.74

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.