Table CT1. Energy Consumption Estimates for Selected Energy Sources in Physical Units, Selected Years, 1960-2020, California

Year	Coal	Natural Gas [a]	Petroleum							Nuclear Electric Power	Hydro-electric Power [g]	Fuel Ethanol [h]	Biodiesel
			Distillate Fuel Oil [b]	HGL [c]	Jet Fuel [d]	Motor Gasoline [e]	Residual Fuel Oil	Other [f]	Total				
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels							Million Kilowatthours		Thousand Barrels	
1960	1,342	1,258	26,683	8,888	25,818	137,025	80,575	46,536	325,526	(s)	17,445	NA	NA
1965	2,379	1,690	35,105	11,029	40,150	169,900	69,745	48,063	373,992	270	30,523	NA	NA
1970	2,327	2,126	39,221	15,532	59,614	214,064	70,324	52,329	451,084	3,132	38,082	NA	NA
1971	1,906	2,149	47,387	16,151	62,721	219,227	80,069	51,881	477,436	3,519	39,018	NA	NA
1972	1,773	2,186	46,087	17,505	63,646	232,758	78,082	54,904	492,983	3,175	31,755	NA	NA
1973	2,500	2,046	51,869	18,926	62,947	240,789	112,710	57,976	545,217	2,631	38,754	NA	NA
1974	2,268	1,834	43,775	20,312	60,344	235,468	99,002	57,443	516,345	3,698	46,422	NA	NA
1975	2,151	1,833	42,335	19,264	62,607	241,508	111,086	56,592	533,392	6,071	40,103	NA	NA
1976	2,612	1,757	45,810	19,100	61,059	252,646	138,117	61,366	578,098	4,807	23,193	NA	NA
1977	2,984	1,772	51,755	17,300	63,229	266,288	172,411	67,974	638,956	8,115	14,251	NA	NA
1978	2,732	1,563	60,214	19,594	64,648	278,182	155,636	71,427	649,701	7,659	37,206	NA	NA
1979	2,734	1,810	66,872	23,149	65,874	269,423	156,981	80,247	662,545	8,762	33,920	NA	NA
1980	2,669	1,808	62,277	19,197	63,201	253,593	148,701	69,430	616,400	4,920	40,780	NA	NA
1981	3,231	1,858	67,523	17,123	59,089	252,914	130,662	44,225	571,534	3,206	29,764	410	NA
1982	2,864	1,683	67,264	16,270	56,541	249,912	81,658	45,449	517,093	3,735	50,226	1,103	NA
1983	1,456	1,535	68,093	16,259	57,359	256,139	68,521	70,521	536,893	5,613	56,885	1,118	NA
1984	1,669	1,670	75,417	20,667	66,640	265,187	76,540	74,846	579,297	14,144	43,159	901	NA
1985	1,942	1,846	71,538	20,497	67,028	267,368	66,724	71,541	564,695	19,729	31,717	429	NA
1986	1,865	1,531	74,668	20,119	75,176	279,569	58,047	68,833	576,411	26,215	41,459	411	NA
1987	1,934	1,935	68,393	22,328	79,857	292,909	66,638	70,846	600,970	30,387	24,564	616	NA
1988	2,209	1,804	81,954	22,798	82,620	303,621	68,917	76,108	636,017	30,863	23,474	1,189	NA
1989	3,052	1,975	80,510	24,697	90,291	310,918	67,223	73,292	646,932	32,519	30,801	1,067	NA
1990	3,809	2,036	77,233	19,992	94,907	305,983	64,095	72,164	634,373	32,693	23,793	1,133	NA
1991	4,002	2,150	74,857	18,596	90,064	298,698	45,310	63,611	591,136	31,542	21,957	1,424	NA
1992	4,062	2,229	69,190	21,088	86,688	315,643	34,315	66,499	593,423	35,244	20,167	158	NA
1993	3,816	2,136	64,985	16,655	89,244	308,726	37,167	60,664	577,441	31,581	40,493	575	NA
1994	3,703	2,282	72,385	18,099	98,793	307,653	41,932	64,474	603,337	33,752	23,013	810	NA
1995	3,675	2,077	73,050	14,798	95,304	313,464	46,248	62,354	605,219	30,246	48,033	2,523	NA
1996	3,444	1,955	73,677	10,914	103,773	318,257	40,283	68,815	615,718	34,097	44,751	2,128	NA
1997	3,628	2,146	79,624	8,854	103,188	322,871	21,420	66,286	602,242	30,512	41,055	2,134	NA
1998	2,903	2,310	78,526	10,936	105,482	329,943	17,194	65,189	607,270	34,594	49,548	1,610	NA
1999	3,005	2,340	82,748	12,171	98,673	337,791	23,794	70,775	625,953	33,372	40,737	1,395	NA
2000	2,954	2,509	93,456	12,558	103,001	342,890	33,734	65,890	651,530	35,176	38,334	1,589	NA
2001	2,834	2,465	97,376	11,060	97,216	351,981	25,470	72,395	655,498	33,220	25,542	2,205	3
2002	2,943	2,273	89,580	14,696	102,756	369,567	30,768	72,040	679,406	34,352	31,141	2,587	6
2003	2,866	2,269	82,540	14,689	99,721	367,675	23,421	67,577	655,623	35,594	36,371	14,411	5
2004	2,847	2,407	94,023	14,831	105,408	376,075	27,786	67,499	685,622	30,268	34,141	20,813	9
2005	2,849	2,248	96,902	12,375	104,612	381,301	33,939	69,209	698,338	36,155	39,632	22,935	31
2006	2,771	2,316	99,305	12,090	106,403	383,178	37,731	68,041	706,748	31,959	48,047	22,660	88
2007	2,779	2,396	99,024	11,505	110,794	380,780	39,680	69,299	711,081	35,792	27,328	23,783	119
2008	2,681	2,405	90,395	16,341	100,836	364,468	40,614	59,587	672,240	32,482	24,128	24,254	102
2009	2,209	2,329	87,734	16,682	97,985	356,713	38,535	50,878	648,527	31,764	27,888	23,928	108
2010	2,311	2,273	91,523	16,507	R 76,755	355,172	39,920	R 49,456	R 629,334	32,201	33,431	36,730	88
2011	2,347	2,153	93,626	16,505	R 76,404	345,678	29,732	R 54,218	R 616,164	36,663	42,557	35,717	299
2012	1,863	2,403	89,815	14,441	R 76,770	342,083	26,576	R 48,842	R 598,528	18,507	26,837	34,588	476
2013	1,643	2,416	92,440	14,303	R 78,696	346,483	19,753	R 52,880	R 604,556	17,912	23,755	35,688	1,426
2014	1,677	2,339	97,156	13,959	R 80,424	347,508	13,448	R 50,859	R 603,356	16,986	16,531	36,100	1,590
2015	1,334	2,301	98,250	13,951	R 86,709	358,108	18,556	R 50,228	R 625,803	18,505	13,808	37,313	3,011
2016	1,389	2,173	97,173	15,053	R 93,873	364,832	23,198	R 52,435	R 646,563	18,908	28,942	37,803	R 3,889
2017	1,464	2,117	100,277	14,508	R 99,777	366,820	26,237	R 52,545	R 660,164	17,901	42,363	38,179	R 4,042
2018	1,438	2,139	99,970	15,198	R 101,664	365,610	26,865	R 53,122	R 662,429	18,214	26,331	37,736	R 4,391
2019	1,323	R 2,146	98,407	16,026	R 103,541	R 360,243	29,330	R 51,839	R 659,386	16,165	38,355	37,856	R 5,037
2020	1,211	2,075	91,727	15,152	59,442	289,918	20,054	47,890	524,183	16,259	21,377	30,752	6,344

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.
[g] Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.
[h] Includes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.

NA = Not available.
Where shown, R = Revised data and (s) = Value less than 0.5.
Notes: Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.
Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2020, California

(Trillion Btu)

Year	Fossil Fuels										*Fossil Fuels (as commingled)*		
			Petroleum										
	Coal	Natural Gas excluding Supplemental Gaseous Fuels [a]	Distillate Fuel Oil excluding Biodiesel [a]	HGL [b]	Jet Fuel [c]	Motor Gasoline excluding Fuel Ethanol [a]	Residual Fuel Oil	Other [d]	Total	Total	*Natural Gas including Supplemental Gaseous Fuels* [a]	*Distillate Fuel Oil including Biodiesel* [a]	*Motor Gasoline including Fuel Ethanol* [a]
1960	35.9	1,301.8	155.4	33.9	140.7	719.8	506.6	280.6	1,836.9	3,174.6	*1,301.8*	*155.4*	*719.8*
1965	63.7	1,813.2	204.5	42.1	222.2	892.5	438.5	290.1	2,089.8	3,966.7	*1,813.2*	*204.5*	*892.5*
1970	61.8	2,241.3	228.5	57.9	332.9	1,124.5	442.1	316.6	2,502.5	4,805.6	*2,241.3*	*228.5*	*1,124.5*
1971	51.0	2,265.3	276.0	60.1	350.3	1,151.6	503.4	314.0	2,655.4	4,971.7	*2,265.3*	*276.0*	*1,151.6*
1972	47.5	2,303.6	268.5	64.6	355.9	1,222.7	490.9	331.9	2,734.5	5,085.5	*2,303.6*	*268.5*	*1,222.7*
1973	67.0	2,154.0	302.1	69.3	352.5	1,264.9	708.6	351.0	3,048.4	5,269.4	*2,154.0*	*302.1*	*1,264.9*
1974	60.7	1,937.1	255.0	73.9	337.6	1,236.9	622.4	346.6	2,872.4	4,870.3	*1,937.1*	*255.0*	*1,236.9*
1975	56.4	1,937.3	246.6	69.2	350.7	1,268.6	698.4	343.0	2,976.5	4,970.2	*1,937.3*	*246.6*	*1,268.6*
1976	66.6	1,849.7	266.8	68.4	342.1	1,327.1	868.3	371.8	3,244.8	5,161.1	*1,849.7*	*266.8*	*1,327.1*
1977	75.1	1,864.2	301.5	61.1	354.3	1,398.8	1,083.9	411.7	3,611.3	5,550.6	*1,864.2*	*301.5*	*1,398.8*
1978	67.9	1,646.3	350.7	69.6	362.6	1,461.3	978.5	431.8	3,654.4	5,368.6	*1,646.3*	*350.7*	*1,461.3*
1979	68.6	1,900.4	389.5	83.9	369.6	1,415.3	986.9	488.6	3,734.0	5,702.9	*1,900.4*	*389.5*	*1,415.3*
1980	66.2	1,890.9	362.8	69.7	354.2	1,332.1	934.9	423.6	3,477.3	5,434.3	*1,890.9*	*362.8*	*1,332.1*
1981	78.4	1,947.4	393.3	61.8	331.3	1,328.6	821.5	274.4	3,210.9	5,236.7	*1,947.4*	*393.3*	*1,328.6*
1982	69.4	1,765.2	391.8	58.5	316.7	1,312.8	513.4	281.0	2,874.2	4,708.7	*1,765.2*	*391.8*	*1,312.8*
1983	32.0	1,601.0	396.6	58.7	321.5	1,345.5	430.8	425.9	2,979.0	4,612.1	*1,601.0*	*396.6*	*1,345.5*
1984	37.2	1,739.8	439.3	73.5	373.5	1,393.0	481.2	452.4	3,213.0	4,990.1	*1,739.8*	*439.3*	*1,393.0*
1985	45.3	1,925.5	416.7	73.3	375.8	1,404.5	419.5	435.6	3,125.4	5,096.1	*1,925.5*	*416.7*	*1,404.5*
1986	42.5	1,591.0	434.9	72.1	422.1	1,468.6	364.9	423.9	3,186.6	4,820.1	*1,591.0*	*434.9*	*1,468.6*
1987	45.0	1,993.0	398.4	80.7	448.8	1,538.6	419.0	434.3	3,319.8	5,357.7	*1,993.0*	*398.4*	*1,538.6*
1988	50.8	1,860.4	477.4	82.4	464.2	1,594.9	433.3	463.3	3,515.5	5,426.7	*1,860.4*	*477.4*	*1,594.9*
1989	66.4	2,047.8	469.0	90.0	507.8	1,633.3	422.6	445.2	3,567.7	5,682.0	*2,047.8*	*469.0*	*1,633.3*
1990	84.2	2,101.6	449.9	72.0	534.7	1,607.3	403.0	438.8	3,505.6	5,691.3	*2,101.6*	*449.9*	*1,607.3*
1991	89.5	2,208.3	436.0	67.5	508.1	1,569.1	284.9	389.2	3,254.8	5,552.6	*2,208.3*	*436.0*	*1,569.1*
1992	91.5	2,294.1	403.0	75.3	489.5	1,658.1	215.7	404.1	3,245.8	5,631.5	*2,294.1*	*403.0*	*1,658.1*
1993	84.7	2,213.1	378.5	59.8	504.7	1,608.6	233.7	370.3	3,155.6	5,453.4	*2,213.1*	*378.5*	*1,610.6*
1994	84.6	2,334.8	421.3	65.4	560.1	1,601.3	263.6	393.0	3,304.8	5,724.2	*2,334.8*	*421.3*	*1,604.1*
1995	84.3	2,110.0	425.2	53.6	540.4	1,622.5	290.8	380.7	3,313.1	5,507.4	*2,110.0*	*425.2*	*1,631.3*
1996	80.3	2,017.7	428.8	39.6	588.4	1,651.1	253.3	419.1	3,380.2	5,478.2	*2,017.7*	*428.8*	*1,658.4*
1997	82.7	2,185.0	463.4	32.4	585.1	1,673.1	134.7	403.5	3,292.2	5,559.9	*2,185.0*	*463.4*	*1,680.5*
1998	66.2	2,418.7	456.9	40.8	598.1	1,711.1	108.1	400.3	3,315.4	5,800.2	*2,418.7*	*456.9*	*1,716.7*
1999	69.5	2,379.6	481.5	44.7	559.5	1,752.3	149.6	436.1	3,423.8	5,872.9	*2,379.6*	*481.5*	*1,757.2*
2000	70.0	2,456.4	543.8	45.7	584.0	1,777.9	212.1	407.9	3,571.5	6,097.9	*2,456.4*	*543.8*	*1,783.4*
2001	67.8	2,513.9	566.6	39.8	551.2	1,823.0	160.1	444.9	3,585.7	6,167.4	*2,513.9*	*566.6*	*1,830.7*
2002	70.0	2,318.7	521.3	52.7	582.6	1,912.4	193.4	442.0	3,704.4	6,093.0	*2,318.7*	*521.3*	*1,921.4*
2003	69.5	2,317.1	480.3	53.8	565.4	1,860.8	147.2	412.5	3,520.1	5,906.6	*2,317.1*	*480.3*	*1,910.8*
2004	68.9	2,462.2	547.0	55.0	597.7	1,881.9	174.7	414.5	3,670.8	6,201.9	*2,462.2*	*547.0*	*1,954.1*
2005	67.4	2,304.5	563.8	46.8	593.1	1,900.2	213.4	423.8	3,741.1	6,113.0	*2,304.5*	*563.8*	*1,979.7*
2006	67.0	2,375.9	576.3	45.2	603.3	1,908.2	237.2	416.4	3,786.5	6,229.5	*2,375.9*	*576.3*	*1,986.8*
2007	66.5	2,467.5	572.8	43.3	628.2	1,875.5	249.5	425.9	3,795.1	6,329.1	*2,467.5*	*572.8*	*1,958.0*
2008	63.1	2,472.6	522.5	60.9	571.7	1,776.9	255.3	366.3	3,553.5	6,089.2	*2,472.6*	*522.5*	*1,861.0*
2009	52.4	2,391.4	506.3	61.0	555.6	1,732.8	242.3	311.7	3,409.7	5,853.5	*2,391.4*	*506.8*	*1,815.7*
2010	55.0	2,325.4	528.1	63.4	R 435.2	1,672.3	251.0	301.1	R 3,251.0	R 5,631.4	*2,325.4*	*528.5*	*1,799.7*
2011	55.3	2,196.3	538.6	63.4	R 433.2	1,626.3	186.9	332.5	R 3,181.0	R 5,432.5	*2,196.3*	*540.2*	*1,750.2*
2012	43.8	2,456.4	515.4	55.5	R 435.3	1,611.6	167.1	300.4	R 3,085.3	R 5,585.5	*2,456.4*	*518.0*	*1,731.6*
2013	38.2	2,480.8	525.1	54.9	R 446.2	1,629.4	124.2	324.7	R 3,104.5	R 5,623.4	*2,480.8*	*532.7*	*1,753.2*
2014	39.5	2,409.6	551.4	53.6	R 456.0	1,632.7	84.5	R 312.5	R 3,090.7	R 5,539.8	*2,409.6*	*559.9*	*1,758.0*
2015	31.0	2,384.1	550.0	53.6	R 491.6	1,681.4	116.7	R 308.5	R 3,201.7	R 5,616.8	*2,384.1*	*566.1*	*1,811.0*
2016	32.1	2,248.9	538.6	57.8	R 532.3	1,713.0	145.8	R 329.5	R 3,316.9	R 5,597.9	*2,248.9*	*559.4*	*1,844.2*
2017	33.7	2,191.0	555.6	55.7	R 565.7	1,720.8	165.0	R 329.8	R 3,392.6	R 5,617.3	*2,191.0*	*577.3*	*1,853.5*
2018	33.3	2,209.8	552.2	58.4	R 576.4	1,716.3	168.9	R 333.9	R 3,406.1	R 5,649.1	*2,209.8*	*575.7*	*1,847.8*
2019	30.9	R 2,218.7	539.7	61.5	R 587.1	1,688.1	184.4	R 324.7	R 3,385.6	R 5,635.2	R *2,218.7*	*566.7*	*1,819.9*
2020	28.0	2,144.0	494.0	58.2	337.0	1,357.8	126.1	299.8	2,672.9	4,844.9	*2,144.0*	*528.0*	*1,464.7*

[a] Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable Energy."

[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

[c] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."

[d] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2020, California (Continued)

(Trillion Btu)

Year	Nuclear Electric Power	Renewable Energy											Net Interstate Flow of Electricity [k]	Electricity Net Imports [l]	Total [f]
		Hydro-electric Power [e,f]	Biomass					Geo-thermal [f]	Solar [f,j]	Wind	Total [f]				
			Wood and Waste [f,g]	Fuel Ethanol [h]	Biodiesel	Losses and Co-products [i]	Total [f]								
1960	(s)	187.7	82.1	NA	NA	NA	82.1	0.4	NA	NA	270.2		6.5	-1.4	3,449.9
1965	3.2	319.1	97.5	NA	NA	NA	97.5	2.0	NA	NA	418.5		-2.7	(s)	4,385.7
1970	34.4	399.6	116.8	NA	NA	NA	116.8	5.5	NA	NA	522.0		137.2	(s)	5,499.1
1971	38.1	408.8	119.2	NA	NA	NA	119.2	5.7	NA	NA	533.8		204.0	(s)	5,747.7
1972	34.3	329.6	127.6	NA	NA	NA	127.6	15.1	NA	NA	472.3		280.0	0.0	5,872.0
1973	28.7	402.6	130.1	NA	NA	NA	130.1	20.4	NA	NA	553.2		195.8	(s)	6,047.1
1974	41.3	484.7	134.7	NA	NA	NA	134.7	25.6	NA	NA	645.1		259.7	0.0	5,816.3
1975	66.9	417.3	127.5	NA	NA	NA	127.5	33.8	NA	NA	578.6		417.2	0.0	6,032.8
1976	53.1	240.6	144.8	NA	NA	NA	144.8	37.5	NA	NA	422.9		549.3	0.0	6,186.3
1977	87.4	148.7	152.0	NA	NA	NA	152.0	37.4	NA	NA	338.1		385.4	0.0	6,361.5
1978	83.8	385.5	160.3	NA	NA	NA	160.3	30.9	NA	NA	576.6		443.6	0.0	6,472.7
1979	95.3	351.2	168.4	NA	NA	NA	168.4	40.3	NA	NA	559.8		369.6	0.0	6,727.6
1980	53.7	423.6	115.6	NA	NA	NA	115.6	52.7	NA	NA	591.9		460.2	0.3	6,540.5
1981	35.4	311.1	131.7	1.4	NA	0.0	133.1	59.4	NA	NA	503.7		556.5	(s)	6,332.2
1982	41.4	525.1	123.3	3.8	NA	0.0	127.1	50.6	NA	NA	702.8		623.1	(s)	6,076.1
1983	61.2	598.4	144.8	3.9	NA	0.0	148.6	63.9	NA	(s)	811.0		607.9	0.1	6,092.3
1984	153.4	450.6	162.7	3.1	NA	0.0	165.9	80.2	0.1	(s)	696.7		692.8	0.2	6,533.2
1985	209.6	331.3	165.3	1.5	NA	0.3	167.1	96.1	0.1	(s)	594.7		687.3	13.8	6,601.5
1986	277.3	433.1	127.4	1.4	NA	0.3	129.1	105.7	0.1	(s)	668.1		722.7	12.9	6,501.1
1987	317.3	255.9	155.5	2.1	NA	0.3	157.9	110.4	0.1	(s)	524.4		712.6	26.4	6,938.5
1988	327.2	242.3	164.6	4.1	NA	0.3	169.0	104.4	0.1	(s)	515.9		849.1	24.9	7,143.8
1989	344.1	321.3	231.9	3.7	NA	0.3	235.9	143.7	19.7	21.7	742.3		637.5	14.4	7,420.3
1990	346.0	247.5	218.4	3.9	NA	0.2	222.6	152.1	R 22.1	28.7	673.0		713.3	15.8	R 7,439.4
1991	330.7	229.1	214.0	4.9	NA	0.3	219.2	155.5	23.8	30.4	658.1		774.8	10.2	7,326.4
1992	369.0	208.6	225.7	0.5	NA	0.3	226.6	154.1	23.6	29.6	642.5		657.6	7.1	R 7,307.7
1993	331.7	417.4	191.7	2.0	NA	0.3	194.0	155.6	24.6	30.8	822.4		524.1	6.7	7,138.3
1994	352.8	237.4	192.7	2.8	NA	0.3	195.9	142.6	25.2	34.9	636.0		553.1	7.0	7,273.0
1995	317.8	495.3	172.9	8.8	NA	0.3	182.0	120.1	R 25.4	31.8	R 854.6		610.0	5.9	7,295.6
1996	358.1	462.7	167.6	7.4	NA	0.1	175.1	129.7	25.6	31.8	R 825.0		739.9	4.2	R 7,405.4
1997	320.2	419.3	151.2	7.4	NA	0.2	158.9	132.2	25.0	32.0	767.4		876.3	4.5	R 7,528.3
1998	362.9	505.2	141.1	5.6	NA	0.3	146.9	133.4	24.5	28.1	838.2		807.1	-2.1	7,806.4
1999	348.7	416.6	150.6	4.8	NA	0.2	155.7	135.3	R 24.0	33.0	R 764.6		815.1	0.6	R 7,801.9
2000	366.8	391.0	158.3	5.5	NA	0.3	164.1	127.6	23.1	35.9	R 741.8		675.2	11.5	R 7,893.3
2001	346.9	263.9	156.1	7.6	(s)	0.3	164.1	128.1	23.0	36.2	615.3		778.5	10.4	R 7,918.6
2002	358.7	316.8	162.1	9.0	(s)	0.4	171.5	135.2	R 22.5	38.7	R 684.7		820.5	6.4	R 7,963.3
2003	371.0	368.3	155.3	50.0	(s)	0.5	205.8	133.3	21.9	39.4	R 768.8		788.1	14.1	R 7,848.5
2004	315.6	342.0	155.8	72.2	(s)	0.5	228.4	133.2	R 22.3	43.1	R 769.1		925.9	4.2	R 8,216.8
2005	377.3	396.3	145.6	79.5	0.2	0.9	226.2	132.4	R 22.3	42.6	R 819.7		822.9	18.9	R 8,151.8
2006	333.5	476.6	138.8	78.6	0.5	2.3	220.1	129.3	R 23.5	48.4	R 898.0		778.0	8.1	R 8,247.0
2007	375.4	270.1	137.8	82.5	0.6	5.1	226.0	130.6	R 26.1	55.2	R 708.0		829.6	18.8	R 8,261.0
2008	339.5	237.8	140.8	84.1	0.5	5.3	230.8	129.1	R 30.4	53.1	R 681.2		949.7	16.0	R 8,075.6
2009	332.2	272.2	152.0	82.8	0.6	2.7	238.2	127.5	R 31.8	57.0	R 726.6		854.3	8.6	R 7,775.3
2010	336.6	326.2	159.4	127.3	0.5	3.3	290.5	125.0	R 36.7	59.3	R 837.6		835.7	10.5	R 7,651.8
2011	383.6	413.5	157.8	123.9	1.6	8.4	291.6	124.1	R 42.6	75.3	R 947.2		868.3	20.1	R 7,651.7
2012	193.9	255.4	156.1	120.0	2.5	8.1	286.7	121.3	R 55.1	92.8	R 811.3		826.4	29.4	R 7,446.4
2013	187.2	226.6	165.6	123.8	7.6	R 8.0	R 305.1	119.6	R 85.0	122.3	R 858.6		825.8	37.4	R 7,532.4
2014	177.7	157.2	166.8	125.3	8.5	R 10.2	R 310.8	117.2	156.5	123.6	R 865.3		821.2	42.0	R 7,446.0
2015	193.5	128.7	139.6	129.6	16.1	R 10.5	R 295.7	112.9	211.8	114.0	R 863.1		805.6	46.5	R 7,525.5
2016	197.8	267.2	129.6	131.3	20.8	R 10.6	R 292.3	107.9	267.5	124.7	R 1,059.6		740.1	52.5	R 7,648.0
2017	187.2	390.3	130.5	132.7	21.7	R 11.3	R 296.3	108.6	340.4	118.1	R 1,253.7		659.4	48.6	R 7,766.2
2018	190.4	239.7	R 133.4	131.5	23.5	R 11.6	R 300.0	108.4	381.6	127.7	R 1,157.4		865.7	2.5	R 7,865.2
2019	168.8	341.5	139.3	131.8	27.0	R 10.3	R 308.5	99.3	405.7	122.3	R 1,277.3		692.7	16.1	R 7,790.1
2020	169.8	187.5	148.3	106.9	34.0	6.0	295.2	101.9	436.7	119.2	1,140.5		756.5	11.0	6,922.8

[e] Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

[h] Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

[i] Losses and co-products from the production of biodiesel and fuel ethanol.

[j] Solar thermal and photovoltaic energy.

[k] Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

[l] Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table CT3. Total End-Use Energy Consumption Estimates, Selected Years, 1960-2020, California

Year	Coal	Natural Gas [a]	Petroleum							Hydro-electric Power [g,h]	Biomass		Geo-thermal [h]	Solar [h,k]	Electricity Retail Sales	Net Energy [h,l]	Electrical System Energy Losses [m]	Total [h,l]
			Distillate Fuel Oil [b]	HGL [c]	Jet Fuel [d]	Motor Gasoline [e]	Residual Fuel Oil	Other [f]	Total		Wood and Waste [h,i]	Losses and Co-products [j]						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels							Million Kilowatt-hours					Million Kilowatt-hours			
1960	1,342	935	26,563	8,888	25,818	137,025	56,644	46,536	301,475	(s)	– –	– –	– –	– –	57,270	– –	– –	– –
1970	2,327	1,490	39,114	15,532	59,614	214,064	48,735	52,329	429,388	(s)	– –	– –	– –	– –	118,645	– –	– –	– –
1980	2,669	1,289	60,696	19,197	62,224	253,593	86,038	69,430	551,178	0	– –	– –	– –	– –	167,567	– –	– –	– –
1990	2,899	1,408	76,969	19,992	94,907	305,983	56,926	71,345	626,122	7	– –	– –	– –	– –	211,093	– –	– –	– –
2000	2,015	1,616	92,556	12,558	103,001	342,890	33,648	62,571	647,226	8	– –	– –	– –	– –	244,057	– –	– –	– –
2001	1,937	1,491	96,004	11,060	97,216	351,981	24,978	69,196	650,434	0	– –	– –	– –	– –	247,759	– –	– –	– –
2002	1,973	1,547	89,356	14,696	102,756	369,567	30,728	68,688	675,790	0	– –	– –	– –	– –	235,213	– –	– –	– –
2003	1,976	1,564	82,285	14,689	99,721	367,675	23,411	63,946	651,727	1	– –	– –	– –	– –	243,221	– –	– –	– –
2004	1,922	1,636	93,790	14,831	105,408	376,075	27,786	64,025	681,915	(s)	– –	– –	– –	– –	252,026	– –	– –	– –
2005	1,976	1,559	96,661	12,375	104,612	381,301	33,936	65,346	694,230	5	– –	– –	– –	– –	254,250	– –	– –	– –
2006	1,872	1,545	99,104	12,090	106,403	383,178	37,715	64,483	702,973	7	– –	– –	– –	– –	262,959	– –	– –	– –
2007	1,818	1,561	98,855	11,505	110,794	380,780	39,662	65,742	707,338	13	– –	– –	– –	– –	264,235	– –	– –	– –
2008	1,688	1,547	90,220	16,341	100,836	364,468	40,605	56,531	669,001	0	– –	– –	– –	– –	268,155	– –	– –	– –
2009	1,330	1,520	87,618	16,682	97,985	356,713	38,526	47,936	645,460	(s)	– –	– –	– –	– –	259,584	– –	– –	– –
2010	1,419	1,537	91,448	16,507	R 76,755	355,172	39,912	R 47,298	R 627,091	7	– –	– –	– –	– –	258,531	– –	– –	– –
2011	1,536	1,537	93,562	16,505	R 76,404	345,678	29,731	R 52,370	R 614,252	5	– –	– –	– –	– –	261,942	– –	– –	– –
2012	1,323	1,548	89,754	14,441	R 76,770	342,083	26,576	R 48,481	R 598,105	3	– –	– –	– –	– –	259,538	– –	– –	– –
2013	1,383	1,590	92,378	14,303	R 78,696	346,483	19,753	R 52,832	R 604,446	5	– –	– –	– –	– –	261,332	– –	– –	– –
2014	1,399	1,508	97,091	13,959	R 80,424	347,508	13,448	R 50,817	R 603,247	4	– –	– –	– –	– –	262,585	– –	– –	– –
2015	1,334	1,495	98,183	13,951	R 86,709	358,108	18,556	R 50,228	R 625,736	3	– –	– –	– –	– –	261,170	– –	– –	– –
2016	1,389	1,507	97,108	15,053	R 93,873	364,832	23,198	R 52,435	R 646,498	12	– –	– –	– –	– –	256,847	– –	– –	– –
2017	1,464	1,516	100,209	14,508	R 99,777	366,820	26,237	R 52,545	R 660,096	19	– –	– –	– –	– –	257,268	– –	– –	– –
2018	1,438	1,523	99,904	15,198	R 101,664	365,610	26,865	R 53,122	R 662,364	11	– –	– –	– –	– –	255,224	– –	– –	– –
2019	1,323	R 1,577	98,339	16,026	R 103,541	R 360,243	29,330	R 51,839	R 659,318	14	– –	– –	– –	– –	250,379	– –	– –	– –
2020	1,211	1,459	91,665	15,152	59,442	289,918	20,054	47,890	524,121	6	– –	– –	– –	– –	250,175	– –	– –	– –
			Trillion Btu															
1960	35.9	967.5	154.7	33.9	140.7	719.8	356.1	280.6	1,685.8	(s)	82.1	NA	NA	NA	195.4	2,966.7	483.2	3,449.9
1970	61.8	1,570.7	227.8	57.9	332.9	1,124.5	306.4	316.6	2,366.2	(s)	116.3	NA	NA	NA	404.8	4,519.8	979.3	5,499.1
1980	66.2	1,345.1	353.6	69.7	348.7	1,332.1	540.9	423.6	3,068.6	0.0	115.4	NA	NA	NA	571.7	5,167.0	1,373.5	6,540.5
1990	65.3	1,452.7	448.3	72.0	534.7	1,607.3	357.9	433.8	3,454.0	0.1	146.9	0.2	1.1	18.2	720.2	5,862.7	1,576.6	R 7,439.4
2000	47.9	1,545.2	538.6	45.7	584.0	1,783.4	211.5	388.0	3,551.2	0.1	88.9	0.3	2.0	R 18.1	832.7	R 6,086.5	1,806.8	R 7,893.3
2001	46.7	1,514.3	558.6	39.8	551.2	1,830.7	157.0	425.6	3,563.0	0.0	95.5	0.3	2.2	17.4	845.4	R 6,084.9	1,833.7	R 7,918.6
2002	47.1	1,576.4	520.0	52.7	582.6	1,921.4	193.2	421.8	3,691.6	0.0	80.9	0.4	2.2	16.8	802.5	6,218.0	1,745.3	R 7,963.3
2003	47.8	1,595.2	478.8	53.8	565.4	1,910.8	147.2	390.6	3,546.6	(s)	82.7	0.5	1.9	16.5	829.9	R 6,121.1	1,727.4	R 7,848.5
2004	46.4	1,669.1	545.7	55.0	597.7	1,954.1	174.7	394.6	3,721.7	(s)	83.9	0.5	2.0	R 16.6	859.9	R 6,400.1	1,816.7	R 8,216.8
2005	46.7	1,595.1	562.4	46.8	593.1	1,979.7	213.4	401.7	3,797.1	0.1	72.5	0.9	2.2	R 16.9	867.5	R 6,399.2	1,752.6	R 8,151.8
2006	45.1	1,580.1	575.1	45.2	603.3	1,986.8	237.1	396.0	3,843.5	0.1	63.9	2.3	2.1	R 18.6	897.2	R 6,453.4	1,793.6	R 8,247.1
2007	43.1	1,607.1	571.8	43.3	628.2	1,958.0	249.4	405.5	3,856.2	0.1	66.3	5.1	2.2	R 20.6	901.6	R 6,502.9	1,758.0	R 8,261.0
2008	39.4	1,590.2	521.5	60.9	571.7	1,861.0	255.3	348.8	3,619.1	0.0	66.2	5.3	2.2	R 23.8	914.9	R 6,261.7	1,813.9	R 8,075.6
2009	31.3	1,560.6	506.2	61.0	555.6	1,815.7	242.2	294.9	3,475.6	(s)	74.6	2.7	2.0	R 25.5	885.7	R 6,058.0	1,717.3	R 7,775.3
2010	33.2	1,570.1	528.1	63.4	R 435.2	1,799.7	250.9	288.7	R 3,366.0	0.1	80.4	3.3	2.1	R 29.2	882.1	R 5,966.4	1,685.4	R 7,651.8
2011	35.6	1,566.1	539.9	63.4	R 433.2	1,750.2	186.9	322.0	R 3,295.5	(s)	88.8	8.4	2.1	R 34.3	893.7	R 5,924.6	1,727.1	R 7,651.6
2012	30.7	1,579.5	517.6	55.5	R 435.3	1,731.6	167.1	298.3	R 3,205.4	(s)	80.9	8.1	2.1	R 42.5	885.5	R 5,834.7	1,611.7	R 7,446.4
2013	31.9	1,631.4	532.4	54.9	R 446.2	1,753.2	124.2	324.4	R 3,235.3	0.1	91.4	R 8.0	2.1	R 49.4	891.7	R 5,941.3	1,591.1	R 7,532.4
2014	32.6	1,550.6	559.5	53.6	R 456.0	1,758.0	84.5	312.2	R 3,224.0	(s)	88.6	R 10.2	2.1	62.9	895.9	R 5,867.0	1,578.9	R 7,446.0
2015	31.0	1,550.3	565.7	53.6	R 491.6	1,811.0	116.7	R 308.5	R 3,347.0	(s)	63.9	R 10.5	2.1	74.7	891.1	R 5,970.8	1,554.7	R 7,525.5
2016	32.1	1,560.2	559.1	57.8	R 532.3	1,844.2	145.8	R 329.5	R 3,468.7	0.1	63.7	R 10.6	2.1	95.1	876.4	R 6,109.0	1,539.0	R 7,648.0
2017	33.7	1,569.8	576.9	55.7	R 565.7	1,853.5	165.0	R 329.8	R 3,546.6	0.2	65.6	R 11.3	2.1	117.3	877.8	R 6,224.5	1,541.7	R 7,766.2
2018	33.3	1,574.4	575.3	58.4	R 576.4	1,847.8	168.9	R 333.9	R 3,560.7	0.1	67.7	R 11.6	2.1	137.5	870.8	R 6,258.2	1,606.9	R 7,865.2
2019	30.9	R 1,631.1	566.3	61.5	R 587.1	1,819.9	184.4	R 324.7	R 3,544.0	0.1	R 72.6	R 10.3	2.1	155.1	854.3	R 6,300.6	1,489.5	R 7,790.1
2020	28.0	1,508.5	527.6	58.2	337.0	1,464.7	126.1	299.8	2,813.4	0.1	87.1	6.0	2.1	173.0	853.6	5,472.0	1,450.8	6,922.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil.
[c] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.
[g] Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.
[h] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
[i] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[j] Losses and co-products from the production of biodiesel and fuel ethanol.
[k] Solar thermal and photovoltaic energy.
[l] Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by the commercial and industrial sectors.
[m] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

– – = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. · Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table CT4. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2020, California

Year	Coal [a]	Natural Gas [b]	Petroleum				Biomass	Geothermal [e]	Solar [e,f]	Electricity Retail Sales	Net Energy [e,g]	Electrical System Energy Losses [h]	Total [e,g]
			Distillate Fuel Oil	HGL [c]	Kerosene	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels				Wood [d]			Million Kilowatthours			
1960	4	365	485	3,302	15	3,802	--	--	--	14,975	--	--	--
1965	6	489	427	4,454	31	4,911	--	--	--	23,800	--	--	--
1970	61	553	500	4,517	166	5,182	--	--	--	35,777	--	--	--
1975	0	631	493	2,367	211	3,071	--	--	--	44,257	--	--	--
1980	1	529	94	4,300	18	4,413	--	--	--	52,011	--	--	--
1985	12	527	144	4,677	73	4,893	--	--	--	57,501	--	--	--
1990	5	515	202	5,026	88	5,316	--	--	--	66,575	--	--	--
1995	17	477	175	4,269	81	4,525	--	--	--	68,783	--	--	--
2000	3	517	241	4,657	281	5,179	--	--	--	79,241	--	--	--
2005	2	484	156	7,365	304	7,824	--	--	--	85,610	--	--	--
2006	(s)	492	153	6,430	287	6,870	--	--	--	89,836	--	--	--
2007	0	492	96	6,819	152	7,067	--	--	--	89,158	--	--	--
2008	0	489	145	8,372	81	8,598	--	--	--	91,231	--	--	--
2009	0	481	389	7,859	172	8,419	--	--	--	89,799	--	--	--
2010	0	495	162	8,260	144	8,565	--	--	--	87,257	--	--	--
2011	0	513	109	7,828	110	8,047	--	--	--	88,398	--	--	--
2012	0	478	64	5,917	47	6,029	--	--	--	90,110	--	--	--
2013	0	482	96	5,942	45	6,082	--	--	--	89,242	--	--	--
2014	0	397	94	4,896	59	5,049	--	--	--	89,361	--	--	--
2015	0	401	77	5,500	44	5,620	--	--	--	89,386	--	--	--
2016	0	412	76	5,990	83	6,149	--	--	--	88,311	--	--	--
2017	0	431	71	5,753	51	5,875	--	--	--	90,124	--	--	--
2018	0	424	81	6,269	51	6,400	--	--	--	89,100	--	--	--
2019	0	465	83	6,755	74	6,912	--	--	--	87,524	--	--	--
2020	0	458	74	6,174	73	6,322	--	--	--	94,935	--	--	--
							Trillion Btu						
1960	0.1	377.6	2.8	12.7	0.1	15.6	25.3	NA	NA	51.1	469.6	126.4	596.0
1965	0.1	524.9	2.5	17.1	0.2	19.8	21.7	NA	NA	81.2	647.6	193.9	841.5
1970	1.3	582.4	2.9	17.3	0.9	21.2	24.2	NA	NA	122.1	751.2	295.3	1,046.5
1975	0.0	666.7	2.9	9.1	1.2	13.2	27.5	NA	NA	151.0	858.4	362.2	1,220.6
1980	(s)	552.4	0.6	16.5	0.1	17.2	53.0	NA	NA	177.5	800.0	426.3	1,226.4
1985	0.3	547.8	0.8	18.0	0.4	19.2	91.5	NA	NA	196.2	855.0	449.4	1,304.4
1990	0.1	531.0	1.2	19.3	0.5	21.0	73.2	0.2	18.0	227.2	870.6	497.2	1,367.9
1995	0.4	482.7	1.0	16.4	0.5	17.9	56.6	0.2	19.9	234.7	812.5	512.9	1,325.4
2000	0.1	494.2	1.4	17.9	1.6	20.9	37.0	0.2	17.5	270.4	840.1	586.6	1,426.7
2005	(s)	494.9	0.9	28.3	1.7	30.9	25.9	0.2	15.0	292.1	859.0	590.1	1,449.1
2006	(s)	503.0	0.9	24.7	1.6	27.2	23.0	0.2	16.0	306.5	875.8	612.8	1,488.6
2007	0.0	506.8	0.6	26.2	0.9	27.6	25.4	0.2	17.0	304.2	881.2	593.2	1,474.4
2008	0.0	502.8	0.8	32.2	0.5	33.5	28.4	0.2	18.3	311.3	894.5	617.1	1,511.6
2009	0.0	493.7	2.2	30.2	1.0	33.4	37.3	0.3	18.9	306.4	889.9	594.1	1,484.0
2010	0.0	505.5	0.9	31.7	0.8	33.5	40.0	0.3	20.8	297.7	897.8	568.8	1,466.7
2011	0.0	522.4	0.6	30.1	0.6	31.3	38.8	0.2	23.3	301.6	917.7	582.8	1,500.6
2012	0.0	487.6	0.4	22.7	0.3	23.4	32.4	0.3	26.3	307.5	877.4	559.6	1,437.0
2013	0.0	494.4	0.6	22.8	0.3	23.6	42.3	0.3	32.1	304.5	897.1	543.3	1,440.5
2014	0.0	408.8	0.5	18.8	0.3	19.7	42.8	0.3	41.3	304.9	817.7	537.3	1,355.0
2015	0.0	415.9	0.4	21.1	0.2	21.8	22.0	0.3	50.6	305.0	815.7	532.1	1,347.8
2016	0.0	426.4	0.4	23.0	0.5	23.9	20.6	0.3	65.5	301.3	838.0	529.1	1,367.1
2017	0.0	446.3	0.4	22.1	0.3	22.8	20.0	0.3	78.4	307.5	875.4	540.1	R 1,415.5
2018	0.0	438.2	0.5	24.1	0.3	24.8	22.2	0.3	89.8	304.0	879.3	561.0	1,440.3
2019	0.0	480.5	0.5	25.9	0.4	26.8	R 27.1	0.3	101.7	298.6	R 935.1	520.7	R 1,455.8
2020	0.0	474.0	0.4	23.7	0.4	24.6	21.1	0.3	113.4	323.9	957.2	550.5	1,507.7

[a] Beginning in 2008, data are no longer collected and are assumed to be zero.
[b] Includes supplemental gaseous fuels that are commingled with natural gas.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Wood and wood-derived fuels.
[e] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
[f] Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial sectors.
[g] Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.
[h] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

-- = Not applicable. NA = Not available.
Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.
Notes: Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.
Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table CT5. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2020, California

Year	Coal	Natural Gas [a]	Petroleum						Hydro-electric Power [e,f]	Biomass	Geothermal [f]	Solar [f,h]	Electricity Retail Sales	Net Energy [f,i]	Electrical System Energy Losses [j]	Total [f,i]
			Distillate Fuel Oil	HGL [b]	Kerosene	Motor Gasoline [c]	Residual Fuel Oil	Total [d]		Wood and Waste [f,g]						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			Million Kilowatthours				
1960	3	109	637	1,142	46	1,406	7,284	10,515	NA	– –	– –	NA	22,039	– –	– –	– –
1965	5	164	560	1,541	95	1,309	6,200	9,705	NA	– –	– –	NA	29,917	– –	– –	– –
1970	48	210	657	1,562	510	1,482	8,631	12,842	NA	– –	– –	NA	40,634	– –	– –	– –
1975	0	240	647	819	650	1,622	4,377	8,115	NA	– –	– –	NA	57,846	– –	– –	– –
1980	3	258	3,225	1,487	222	1,795	6,811	13,540	NA	– –	– –	NA	63,465	– –	– –	– –
1985	41	205	3,416	1,618	353	1,759	35	7,181	NA	– –	– –	NA	73,592	– –	– –	– –
1990	20	285	4,094	1,739	19	1,928	882	8,661	7	– –	– –	R 15	88,311	– –	– –	– –
1995	116	279	3,164	1,477	27	236	4	4,907	4	– –	– –	R 26	86,032	– –	– –	– –
2000	21	246	3,104	1,611	52	237	1	5,005	8	– –	– –	R 51	99,900	– –	– –	– –
2005	18	233	1,968	2,416	59	274	0	4,717	5	– –	– –	R 157	117,551	– –	– –	– –
2006	1	244	1,481	1,792	54	285	0	3,613	7	– –	– –	R 209	121,255	– –	– –	– –
2007	0	251	1,834	2,014	31	280	0	4,158	13	– –	– –	R 278	123,690	– –	– –	– –
2008	0	251	2,847	2,600	14	277	0	5,738	0	– –	– –	R 426	125,026	– –	– –	– –
2009	0	248	3,511	2,077	20	268	0	5,876	(s)	– –	– –	R 500	121,105	– –	– –	– –
2010	0	248	4,724	2,246	33	263	0	7,266	7	– –	– –	R 603	121,152	– –	– –	– –
2011	0	246	4,191	2,194	25	260	0	6,670	5	– –	– –	R 761	122,781	– –	– –	– –
2012	0	253	3,768	2,228	9	256	0	6,260	3	– –	– –	R 1,103	121,792	– –	– –	– –
2013	0	255	3,492	2,118	8	268	0	5,885	5	– –	– –	R 1,159	116,858	– –	– –	– –
2014	0	238	3,346	2,531	9	257	1	6,143	4	– –	– –	1,436	119,494	– –	– –	– –
2015	0	236	3,641	2,083	8	10,019	1	15,753	3	– –	– –	1,543	118,384	– –	– –	– –
2016	0	237	3,674	2,856	14	10,049	1	16,594	12	– –	– –	1,825	116,775	– –	– –	– –
2017	0	237	3,736	2,863	10	10,190	0	16,800	19	– –	– –	2,455	117,682	– –	– –	– –
2018	0	248	3,608	3,262	8	10,377	0	17,254	11	– –	– –	3,336	115,786	– –	– –	– –
2019	0	256	3,477	3,458	8	10,457	0	R 17,401	14	– –	– –	3,778	114,279	– –	– –	– –
2020	0	233	2,700	3,258	8	10,512	0	16,478	6	– –	– –	4,271	107,006	– –	– –	– –
			Trillion Btu													
1960	0.1	112.7	3.7	4.4	0.3	7.4	45.8	61.5	NA	0.5	NA	NA	75.2	250.0	186.0	435.9
1965	0.1	175.5	3.3	5.9	0.5	6.9	39.0	55.6	NA	0.4	NA	NA	102.1	333.6	243.7	577.3
1970	1.1	221.3	3.8	6.0	2.9	7.8	54.3	74.8	NA	0.5	NA	NA	138.6	436.2	335.4	771.6
1975	0.0	253.7	3.8	3.1	3.7	8.5	27.5	46.6	NA	0.5	NA	NA	197.4	498.2	473.4	971.6
1980	0.1	269.4	18.8	5.7	1.3	9.4	42.8	78.0	NA	1.3	NA	NA	216.5	565.3	520.2	1,085.5
1985	1.0	212.9	19.9	6.2	2.0	9.2	0.2	37.6	NA	2.2	NA	NA	251.1	504.8	575.1	1,079.9
1990	0.5	294.2	23.8	6.7	0.1	10.1	5.5	46.3	0.1	8.4	0.3	R 0.2	301.3	R 651.3	659.6	1,310.8
1995	2.7	281.8	18.4	5.7	0.2	1.2	(s)	25.5	(s)	11.4	0.4	0.3	293.5	615.6	641.6	1,257.2
2000	0.5	235.7	18.1	6.2	0.3	1.2	(s)	25.8	0.1	10.8	0.6	0.5	340.9	614.7	739.6	1,354.3
2005	0.4	238.5	11.5	9.3	0.3	1.4	0.0	22.5	0.1	9.6	0.7	R 1.6	401.1	R 674.4	810.3	R 1,484.7
2006	(s)	250.0	8.6	6.9	0.3	1.5	0.0	17.3	0.1	10.4	0.7	R 2.1	413.7	R 694.2	827.1	R 1,521.3
2007	0.0	258.4	10.6	7.7	0.2	1.4	0.0	20.0	0.1	9.4	0.6	R 2.7	422.0	R 713.3	822.9	R 1,536.3
2008	0.0	258.0	16.5	10.0	0.1	1.4	0.0	27.9	0.0	9.5	0.5	R 4.2	426.6	R 726.7	845.7	R 1,572.5
2009	0.0	254.5	20.3	8.0	0.1	1.4	0.0	29.7	(s)	10.6	0.6	R 4.9	413.2	R 713.4	801.2	R 1,514.6
2010	0.0	253.3	27.3	8.6	0.2	1.3	0.0	37.4	0.1	10.5	0.6	R 5.9	413.4	R 721.1	789.8	R 1,510.9
2011	0.0	250.9	24.2	8.4	0.1	1.3	0.0	34.1	(s)	17.4	0.7	R 7.4	418.9	R 729.3	809.5	R 1,538.9
2012	0.0	258.3	21.7	8.6	(s)	1.3	0.0	31.6	(s)	16.8	0.6	R 10.5	415.6	R 733.4	756.3	R 1,489.7
2013	0.0	261.5	20.1	8.1	(s)	1.4	0.0	29.7	0.1	17.4	0.6	R 11.1	398.7	R 719.1	711.5	R 1,430.5
2014	0.0	244.4	19.3	9.7	0.1	1.3	(s)	30.4	(s)	17.3	0.6	13.7	407.7	714.2	718.5	1,432.7
2015	0.0	244.5	21.0	8.0	(s)	50.7	(s)	79.7	(s)	14.8	0.6	14.4	403.9	758.0	704.7	1,462.8
2016	0.0	245.3	21.1	11.0	0.1	50.8	(s)	83.0	0.1	14.3	0.6	16.8	398.4	758.7	699.7	1,458.4
2017	0.0	245.8	21.5	11.0	0.1	51.5	0.0	84.1	0.2	13.1	0.6	22.6	401.5	767.9	705.2	1,473.1
2018	0.0	256.3	20.8	12.5	(s)	52.4	0.0	85.8	0.1	13.1	0.6	30.4	395.1	781.4	729.0	1,510.4
2019	0.0	264.7	20.0	13.3	(s)	52.8	0.0	86.2	0.1	13.0	0.6	33.6	389.9	788.2	679.8	1,468.1
2020	0.0	240.5	15.5	12.5	(s)	53.1	0.0	81.2	0.1	12.8	0.6	37.5	365.1	737.8	620.5	1,358.3

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, assumed to be propane only.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.
[d] Includes small amounts of petroleum coke not shown separately.
[e] Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.
[i] Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by commercial utility-scale facilities.
[j] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

– – = Not applicable. NA = Not available.
Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.
Notes: Totals may not equal sum of components due to independent rounding. · The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. · The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.
Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2020, California

Year	Coal	Natural Gas [a]	Petroleum						Hydro-electric Power [e,f]	Biomass		Geo-thermal [f]	Solar [f,i]	Electricity Retail Sales	Net Energy [f,j]	Electrical System Energy Losses [k]	Total [f,j]
			Distillate Fuel Oil	HGL [b]	Motor Gasoline [c]	Residual Fuel Oil	Other [d]	Total		Wood and Waste [f,g]	Losses and Co-products [h]						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Million kWh				Million kWh				
1960	1,313	451	10,127	4,231	2,851	10,750	38,766	66,725	(s)	– –	– –	– –	NA	20,190	– –	– –	– –
1965	2,361	529	13,002	4,826	2,245	11,846	41,823	73,742	(s)	– –	– –	– –	NA	28,904	– –	– –	– –
1970	2,215	711	8,510	9,147	1,942	12,121	47,012	78,732	(s)	– –	– –	– –	NA	42,169	– –	– –	– –
1975	2,151	666	10,519	15,688	1,338	8,308	51,705	87,558	0	– –	– –	– –	NA	46,053	– –	– –	– –
1980	2,665	486	15,576	12,887	1,698	12,554	66,101	108,816	0	– –	– –	– –	NA	51,888	– –	– –	– –
1985	1,889	433	17,779	12,977	3,065	18,732	67,209	119,763	0	– –	– –	– –	NA	52,972	– –	– –	– –
1990	2,874	588	17,076	12,304	3,163	1,838	67,262	101,642	0	– –	– –	– –	3	55,892	– –	– –	– –
1995	2,485	698	11,664	8,489	2,849	1,467	56,088	80,556	0	– –	– –	– –	R 6	57,367	– –	– –	– –
2000	1,992	841	18,686	5,948	1,971	108	58,589	85,302	0	– –	– –	– –	R 11	64,311	– –	– –	– –
2001	1,937	719	21,700	6,367	4,533	333	65,566	98,500	0	– –	– –	– –	R 14	63,041	– –	– –	– –
2002	1,973	785	14,644	9,188	4,821	194	65,196	94,043	0	– –	– –	– –	R 16	48,448	– –	– –	– –
2003	1,976	821	10,749	6,665	5,009	53	60,653	83,129	0	– –	– –	– –	R 19	49,909	– –	– –	– –
2004	1,914	876	14,218	4,799	5,720	14	60,641	85,393	0	– –	– –	– –	R 23	48,812	– –	– –	– –
2005	1,956	822	13,230	1,752	5,375	11	61,985	82,354	0	– –	– –	– –	R 35	50,242	– –	– –	– –
2006	1,870	792	13,861	3,000	5,503	102	61,277	83,743	0	– –	– –	– –	R 61	50,991	– –	– –	– –
2007	1,818	798	11,461	1,913	4,448	11	62,633	80,464	0	– –	– –	– –	R 84	50,538	– –	– –	– –
2008	1,688	788	12,718	4,048	3,930	396	53,724	74,816	0	– –	– –	– –	R 136	51,031	– –	– –	– –
2009	1,330	772	10,312	5,733	3,742	6	45,387	65,180	0	– –	– –	– –	R 179	47,835	– –	– –	– –
2010	1,419	771	12,203	R 5,888	5,773	10	R 44,224	R 68,097	0	– –	– –	– –	R 252	49,301	– –	– –	– –
2011	1,536	753	13,377	R 6,368	5,677	7	R 49,469	R 74,898	0	– –	– –	– –	R 366	49,936	– –	– –	– –
2012	1,323	789	12,976	R 6,154	6,020	5	R 45,867	R 71,023	0	– –	– –	– –	R 598	46,952	– –	– –	– –
2013	1,383	829	12,919	R 6,071	6,256	6	R 50,161	R 75,412	0	– –	– –	– –	R 662	54,397	– –	– –	– –
2014	1,399	834	13,895	R 6,366	4,539	5	R 47,949	R 72,754	0	– –	– –	– –	841	52,898	– –	– –	– –
2015	1,334	823	13,978	R 6,149	5,962	46	R 47,106	R 73,241	0	– –	– –	– –	1,046	52,562	– –	– –	– –
2016	1,389	817	13,140	R 5,951	5,952	57	R 49,452	R 74,552	0	– –	– –	– –	1,388	50,979	– –	– –	– –
2017	1,464	803	13,559	R 5,689	6,026	19	R 49,812	R 75,106	0	– –	– –	– –	1,760	48,627	– –	– –	– –
2018	1,438	807	12,205	R 5,464	6,125	10	R 50,439	R 74,243	0	– –	– –	– –	1,899	49,588	– –	– –	– –
2019	1,323	808	11,661	R 5,638	6,103	11	R 49,155	R 72,569	0	– –	– –	– –	2,213	47,808	– –	– –	– –
2020	1,211	726	10,767	5,643	6,117	9	45,687	68,224	0	– –	– –	– –	2,527	47,631	– –	– –	– –
			Trillion Btu														
1960	35.2	466.3	59.0	16.0	15.0	67.6	238.9	396.5	(s)	56.3	NA	NA	NA	68.9	1,023.2	170.4	1,193.6
1965	63.2	567.4	75.7	18.3	11.8	74.5	255.7	435.9	(s)	74.8	NA	NA	NA	98.6	1,240.0	235.4	1,475.4
1970	59.3	749.1	49.6	33.4	10.2	76.2	286.9	456.2	(s)	91.7	NA	NA	NA	143.9	1,500.3	348.1	1,848.3
1975	56.4	703.6	61.3	55.4	7.0	52.2	315.4	491.3	0.0	99.3	NA	NA	NA	157.1	1,507.8	376.9	1,884.7
1980	66.1	507.4	90.7	45.4	8.9	78.9	403.8	627.8	0.0	61.1	NA	NA	NA	177.0	1,439.4	425.3	1,864.7
1985	44.0	449.5	103.6	44.4	16.1	117.8	410.8	692.7	0.0	71.6	0.3	NA	NA	180.7	1,438.8	414.0	1,852.8
1990	64.7	606.7	99.5	42.4	16.6	11.6	410.2	580.3	0.0	65.3	0.2	0.6	(s)	190.7	1,508.7	417.5	1,926.1
1995	57.9	705.4	67.9	29.4	14.8	9.2	343.7	465.0	0.0	42.3	0.3	1.4	0.1	195.7	1,468.1	427.8	1,895.9
2000	47.4	803.8	108.7	20.3	10.3	0.7	364.7	504.7	0.0	41.1	0.3	1.3	0.1	219.4	1,618.2	476.1	2,094.3
2001	46.7	730.3	126.3	21.8	23.6	2.1	404.3	578.1	0.0	50.9	0.3	1.4	0.1	215.1	1,622.9	466.6	R 2,089.5
2002	47.1	800.0	85.2	31.5	25.1	1.2	401.3	544.3	0.0	34.9	0.4	1.4	0.2	165.3	1,593.6	359.5	1,953.1
2003	47.7	837.5	62.5	23.0	26.0	0.3	371.4	483.2	0.0	33.8	0.5	1.0	0.2	170.3	R 1,574.3	354.5	1,928.7
2004	46.2	893.4	82.7	16.5	29.7	0.1	374.8	503.8	0.0	34.0	0.5	1.1	0.2	166.5	1,645.7	351.9	1,997.6
2005	46.3	841.1	77.0	6.0	27.9	0.1	382.0	493.0	0.0	37.0	0.9	1.3	0.3	171.4	R 1,591.4	346.3	1,937.7
2006	45.1	809.8	80.4	10.3	28.5	0.6	377.2	497.1	0.0	30.6	2.3	1.3	0.6	174.0	1,560.6	347.8	1,908.4
2007	43.1	821.4	66.3	6.5	22.9	0.1	387.2	482.9	0.0	31.5	5.1	1.4	0.8	172.4	R 1,558.6	336.2	R 1,894.9
2008	39.4	809.4	73.5	13.6	20.1	2.5	332.2	441.9	0.0	28.3	5.3	1.4	R 1.3	174.1	R 1,501.2	345.2	R 1,846.4
2009	31.3	792.7	59.6	19.0	19.0	(s)	279.8	377.5	0.0	26.7	2.7	1.2	R 1.7	163.2	R 1,397.1	316.5	R 1,713.5
2010	33.2	787.4	70.5	R 22.6	29.3	0.1	270.5	R 392.9	0.0	29.9	3.3	1.2	R 2.5	168.2	R 1,418.6	321.4	R 1,740.0
2011	35.6	767.4	77.2	R 24.4	28.7	(s)	304.8	R 435.2	0.0	32.6	8.4	1.2	R 3.6	170.4	R 1,454.4	329.2	R 1,783.6
2012	30.7	805.5	74.8	R 23.6	30.5	(s)	R 282.8	R 411.8	0.0	31.7	8.1	1.2	R 5.7	160.2	R 1,454.8	291.6	R 1,746.4
2013	31.9	850.3	74.5	R 23.3	31.7	(s)	308.6	R 438.0	0.0	31.6	R 8.0	1.2	6.3	185.6	R 1,553.0	331.2	R 1,884.2
2014	32.6	857.8	80.1	R 24.4	23.0	(s)	295.3	R 422.9	0.0	28.5	R 10.2	1.2	8.0	180.5	R 1,541.6	318.1	R 1,859.7
2015	31.0	853.1	80.5	23.6	30.1	0.3	R 290.1	R 424.7	0.0	27.0	R 10.5	1.2	9.7	179.3	R 1,536.5	312.9	R 1,849.4
2016	32.1	845.8	75.6	R 22.8	30.1	0.4	R 311.9	440.8	0.0	28.8	R 10.6	1.2	12.8	173.9	R 1,546.1	305.5	R 1,851.5
2017	33.7	831.7	78.1	R 21.8	30.4	0.1	R 313.7	R 444.1	0.0	32.5	R 11.3	1.2	16.2	165.9	R 1,536.7	291.4	R 1,828.1
2018	33.3	834.5	70.3	R 21.0	31.0	0.1	R 318.1	R 440.4	0.0	32.4	R 11.6	1.2	17.3	169.2	R 1,539.8	312.2	R 1,852.1
2019	30.9	R 835.7	67.2	R 21.6	30.8	0.1	R 308.9	R 428.6	0.0	32.5	R 10.3	1.2	19.7	163.1	R 1,522.1	284.4	R 1,806.5
2020	28.0	750.3	62.0	21.7	30.9	0.1	286.9	401.5	0.0	53.2	6.0	1.2	22.2	162.5	1,425.0	276.2	1,701.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
[c] Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014 and 2015 because of coverage. See Technical Notes, Section 4.
[d] Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.
[e] Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] Losses and co-products from the production of biodiesel and fuel ethanol.
[i] Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.
[j] Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 2009, includes a small amount of wind energy consumed by industrial utility-scale facilities.
[k] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

kWh = Kilowatthours. – – = Not applicable. NA = Not available.
Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.
Notes: Totals may not equal sum of components due to independent rounding. · The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. · The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.
Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table CT7. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2020, California

Year	Coal	Natural Gas [a]	Petroleum								Electricity Retail Sales	Net Energy [f,g]	Electrical System Energy Losses [h]	Total [f,g]
			Aviation Gasoline	Distillate Fuel Oil [b]	HGL [c]	Jet Fuel [d]	Lubricants	Motor Gasoline [e]	Residual Fuel Oil	Total				
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Million Kilowatthours			
1960	23	11	5,383	15,313	214	25,818	2,327	132,768	38,610	220,432	66	--	--	--
1965	8	16	3,342	21,032	208	40,150	2,772	166,346	35,109	268,960	66	--	--	--
1970	4	17	2,184	29,448	305	59,614	2,457	210,641	27,982	332,632	65	--	--	--
1975	(s)	20	1,640	30,528	390	62,509	2,386	238,548	20,056	356,057	265	--	--	--
1980	0	15	285	41,801	522	62,224	2,804	250,100	66,673	424,409	203	--	--	--
1985	0	14	1,354	49,892	1,225	67,028	2,552	262,544	43,340	427,934	266	--	--	--
1990	0	20	1,106	55,598	923	94,907	2,871	300,893	54,206	510,503	315	--	--	--
1995	0	20	807	57,940	564	95,304	2,739	310,379	44,043	511,776	423	--	--	--
2000	0	12	723	70,525	341	103,001	2,926	340,681	33,540	551,739	606	--	--	--
2005	0	20	530	81,307	842	104,612	2,468	375,652	33,924	599,335	846	--	--	--
2006	0	17	461	83,608	868	106,403	2,405	377,390	37,614	608,749	877	--	--	--
2007	0	20	443	85,465	760	110,794	2,483	376,053	39,652	615,649	848	--	--	--
2008	0	19	407	74,509	1,320	100,836	2,305	360,261	40,209	579,849	867	--	--	--
2009	0	19	285	73,406	1,013	97,985	2,073	352,703	38,519	565,985	844	--	--	--
2010	0	23	348	74,360	R 113	R 76,755	2,549	349,136	39,901	R 543,163	821	--	--	--
2011	0	25	379	75,886	R 115	R 76,404	2,388	339,741	29,724	R 524,637	827	--	--	--
2012	0	28	379	72,945	R 142	R 76,770	2,179	335,807	26,571	R 514,793	685	--	--	--
2013	0	25	342	75,872	R 173	R 78,696	2,276	339,959	19,747	R 517,066	836	--	--	--
2014	0	39	470	79,756	R 166	R 80,424	2,330	342,712	13,442	R 519,301	832	--	--	--
2015	0	36	499	80,487	R 219	R 86,709	2,571	342,128	18,509	R 531,121	838	--	--	--
2016	0	41	450	80,218	R 257	R 93,873	2,436	348,830	23,140	R 549,202	782	--	--	--
2017	0	44	407	82,842	R 203	R 99,777	2,265	350,604	26,219	R 562,316	835	--	--	--
2018	0	44	442	84,010	R 204	R 101,664	2,183	349,108	26,855	R 564,466	750	--	--	--
2019	0	R 49	497	83,117	R 174	R 103,541	2,105	R 343,683	29,320	R 562,437	768	--	--	--
2020	0	42	380	78,123	77	59,442	1,741	273,289	20,045	433,097	603	--	--	--
			Trillion Btu											
1960	0.6	11.0	27.2	89.2	0.8	140.7	14.1	697.4	242.7	1,212.1	0.2	1,223.9	0.6	1,224.4
1965	0.2	16.8	16.9	122.5	0.8	222.2	16.8	873.8	220.7	1,473.7	0.2	1,491.0	0.5	1,491.5
1970	0.1	17.9	11.0	171.5	1.2	332.9	14.9	1,106.5	175.9	1,814.0	0.2	1,832.2	0.5	1,832.7
1975	(s)	21.4	8.3	177.8	1.5	350.2	14.5	1,253.1	126.1	1,931.4	0.9	1,953.7	2.2	1,955.9
1980	0.0	15.9	1.4	243.5	2.0	348.7	17.0	1,313.8	419.2	2,345.6	0.7	2,362.2	1.7	2,363.8
1985	0.0	15.0	6.8	290.6	4.7	375.8	15.5	1,379.1	272.5	2,345.1	0.9	2,362.4	2.1	2,364.5
1990	0.0	20.8	5.6	323.9	3.5	534.7	17.4	1,580.6	340.8	2,806.4	1.1	2,832.2	2.4	2,834.5
1995	0.0	20.0	4.1	337.2	2.2	540.4	16.6	1,615.2	276.9	2,792.5	1.4	2,814.0	3.2	2,817.1
2000	0.0	11.5	3.7	410.4	1.3	584.0	17.7	1,771.9	210.9	2,999.9	2.1	3,013.5	4.5	3,017.9
2005	0.0	20.7	2.7	473.0	3.2	593.1	15.0	1,950.4	213.3	3,250.7	2.9	3,274.4	5.8	3,280.3
2006	0.0	17.3	2.3	485.2	3.3	603.3	14.6	1,956.8	236.5	3,302.0	3.0	3,322.7	6.0	3,328.7
2007	0.0	20.6	2.2	494.3	2.9	628.2	15.1	1,933.7	249.3	3,325.7	2.9	3,349.8	5.6	3,355.5
2008	0.0	20.0	2.1	430.7	5.1	571.7	14.0	1,839.5	252.8	3,115.8	3.0	3,139.3	5.9	3,145.2
2009	0.0	19.7	1.4	424.1	3.9	555.6	12.6	1,795.3	242.2	3,035.0	2.9	3,057.6	5.6	3,063.1
2010	0.0	23.8	1.8	429.4	R 0.4	R 435.2	15.5	1,769.1	250.9	R 2,902.2	2.8	R 2,928.8	5.4	R 2,934.2
2011	0.0	25.4	1.9	437.9	R 0.4	R 433.2	14.5	1,720.1	186.9	R 2,794.9	2.8	R 2,823.1	5.5	R 2,828.6
2012	0.0	28.1	1.9	420.7	R 0.5	R 435.3	13.2	1,699.9	167.1	R 2,738.5	2.3	R 2,769.0	4.3	R 2,773.3
2013	0.0	25.2	1.7	437.2	R 0.7	R 446.2	13.8	1,720.2	124.1	R 2,744.0	2.9	R 2,772.1	5.1	R 2,777.2
2014	0.0	39.6	2.4	459.6	R 0.6	R 456.0	14.1	1,733.8	84.5	R 2,751.1	2.8	R 2,793.5	5.0	R 2,798.5
2015	0.0	36.8	2.5	463.8	0.8	R 491.6	15.6	1,730.1	116.4	R 2,820.9	2.9	R 2,860.5	5.0	R 2,865.5
2016	0.0	42.7	2.3	461.8	R 1.0	R 532.3	14.8	1,763.3	145.5	R 2,920.9	2.7	R 2,966.2	4.7	R 2,970.9
2017	0.0	45.9	2.1	476.9	R 0.8	R 565.7	13.7	1,771.6	164.8	R 2,995.7	2.8	R 3,044.4	5.0	R 3,049.4
2018	0.0	45.4	2.2	483.8	R 0.8	R 576.4	13.2	1,764.4	168.8	R 3,009.7	2.6	R 3,057.7	4.7	R 3,062.4
2019	0.0	R 50.3	2.5	478.7	R 0.7	R 587.1	12.8	1,736.3	184.3	R 3,002.3	2.6	R 3,055.2	4.6	R 3,059.7
2020	0.0	43.8	1.9	449.7	0.3	337.0	10.6	1,380.7	126.0	2,306.2	2.1	2,352.0	3.5	2,355.5

[a] Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.
[b] Beginning in 2009, includes biodiesel blended into distillate fuel oil.
[c] Hydrocarbon gas liquids, assumed to be propane only.
[d] Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial sector, Other Petroleum."
[e] Beginning in 1993, includes fuel ethanol blended into motor gasoline.
[f] There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.
[g] For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
[h] Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

-- = Not applicable.
Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.
Notes: Totals may not equal sum of components due to independent rounding. · The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.
Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

Table CT8. Electric Power Sector Consumption Estimates, Selected Years, 1960-2020, California

Year	Coal	Natural Gas [a]	Petroleum				Nuclear Electric Power	Hydroelectric Power [d]	Biomass	Geothermal [f]	Solar [f,g]	Wind [f]	Electricity Net Imports [h]	Total [f,i]
			Distillate Fuel Oil [b]	Petroleum Coke	Residual Fuel Oil [c]	Total			Wood and Waste [e,f]					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels				Million Kilowatthours			Million Kilowatthours				
1960	0	323	120	0	23,931	24,051	(s)	17,445	– –	33	NA	NA	-400	– –
1965	0	493	83	0	16,590	16,673	270	30,523	– –	189	NA	NA	-3	– –
1970	0	636	107	0	21,589	21,696	3,132	38,082	– –	525	NA	NA	-11	– –
1975	0	275	247	0	78,345	78,592	6,071	40,103	– –	3,246	NA	NA	0	– –
1980	0	519	2,559	0	62,663	65,222	4,920	40,780	– –	5,073	NA	NA	89	– –
1985	0	666	308	0	4,617	4,925	19,729	31,717	– –	9,197	11	3	4,055	– –
1990	910	629	264	819	7,169	8,252	32,693	23,785	– –	14,521	367	2,759	4,618	– –
1995	1,057	603	107	2,612	734	3,454	30,246	48,029	– –	11,450	497	3,087	1,739	– –
2000	939	893	899	3,319	86	4,304	35,176	38,326	– –	12,308	493	3,518	3,381	– –
2005	873	689	241	3,863	4	4,108	36,155	39,626	– –	13,023	537	4,262	5,527	– –
2006	899	771	201	3,558	15	3,775	31,959	48,040	– –	12,821	495	4,883	2,372	– –
2007	961	834	169	3,557	17	3,742	35,792	27,314	– –	12,991	557	5,585	5,505	– –
2008	993	858	175	3,055	9	3,239	32,482	24,128	– –	12,883	670	5,385	4,695	– –
2009	879	809	116	2,942	9	3,067	31,764	27,888	– –	12,853	647	5,840	2,529	– –
2010	892	736	76	2,158	8	2,242	32,201	33,424	– –	12,600	765	6,079	3,072	– –
2011	812	617	63	1,848	1	1,912	36,663	42,553	– –	12,552	861	7,752	5,885	– –
2012	539	855	61	362	0	423	18,507	26,835	– –	12,519	1,328	9,754	8,602	– –
2013	259	826	62	48	0	109	17,912	23,749	– –	12,307	3,727	12,819	10,950	– –
2014	278	832	66	43	0	108	16,986	16,527	– –	12,102	9,834	12,988	12,309	– –
2015	0	806	67	0	1	67	18,505	13,805	– –	11,883	14,711	12,220	13,633	– –
2016	0	666	65	0	0	65	18,908	28,930	– –	11,457	18,677	13,498	15,386	– –
2017	0	601	68	0	0	68	17,901	42,344	– –	11,560	24,214	12,812	14,243	– –
2018	0	616	66	0	0	66	18,214	26,320	– –	11,677	26,818	14,013	724	– –
2019	0	568	68	0	0	68	16,165	38,341	– –	10,914	28,140	13,724	4,716	– –
2020	0	616	62	0	0	62	16,259	21,371	– –	11,367	30,060	13,572	3,237	– –
							Trillion Btu							
1960	0.0	334.3	0.7	0.0	150.5	151.2	(s)	187.7	(s)	0.4	NA	NA	-1.4	672.2
1965	0.0	528.7	0.5	0.0	104.3	104.8	3.2	319.1	0.7	2.0	NA	NA	(s)	958.3
1970	0.0	670.6	0.6	0.0	135.7	136.4	34.4	399.6	0.5	5.5	NA	NA	(s)	1,247.0
1975	0.0	291.9	1.4	0.0	492.6	494.0	66.9	417.3	0.2	33.8	NA	NA	0.0	1,304.0
1980	0.0	545.8	14.8	0.0	394.0	408.7	53.7	423.6	0.2	52.7	NA	NA	0.3	1,485.0
1985	0.0	700.3	1.8	0.0	29.0	30.8	209.6	331.3	(s)	96.1	0.1	(s)	13.8	1,382.1
1990	18.8	648.9	1.5	4.9	45.1	51.5	346.0	247.4	71.5	151.1	3.8	28.7	15.8	1,583.5
1995	23.3	620.0	0.6	15.7	4.6	21.0	317.8	495.3	62.6	118.1	5.1	31.8	5.9	1,700.9
2000	22.1	911.2	5.2	20.0	0.5	25.8	366.8	391.0	69.4	125.6	5.0	35.9	11.5	1,964.3
2005	20.7	709.3	1.4	22.1	(s)	23.5	377.3	396.2	73.1	130.2	5.4	42.6	18.9	1,797.2
2006	21.9	795.8	1.2	20.3	0.1	21.6	333.5	476.5	74.9	127.2	4.9	48.4	8.1	1,912.9
2007	23.4	860.4	1.0	20.3	0.1	21.4	375.4	270.0	71.5	128.4	5.5	55.2	18.8	1,830.0
2008	23.6	882.4	1.0	17.5	0.1	18.5	339.5	237.8	74.6	126.9	6.6	53.1	16.0	1,779.1
2009	21.1	830.8	0.7	16.8	0.1	17.6	332.2	272.2	77.5	125.4	6.3	57.0	8.6	1,748.7
2010	21.8	755.3	0.4	12.3	0.1	12.8	336.6	326.1	79.0	122.9	7.5	59.3	10.5	1,731.8
2011	19.7	630.1	0.4	10.6	(s)	10.9	383.6	413.4	69.0	122.0	8.4	75.3	20.1	1,752.6
2012	13.2	876.9	0.4	2.1	0.0	2.4	193.9	255.4	75.2	119.1	12.6	92.8	29.4	1,670.9
2013	6.2	849.4	0.4	0.3	0.0	0.6	187.2	226.6	74.3	117.4	35.6	122.3	37.4	1,656.9
2014	6.9	859.0	0.4	0.2	0.0	0.6	177.7	157.2	78.2	115.1	93.5	123.5	42.0	1,653.6
2015	0.0	833.7	0.4	0.0	(s)	0.4	193.5	128.6	75.7	110.7	137.1	113.9	46.5	1,640.2
2016	0.0	688.8	0.4	0.0	0.0	0.4	197.8	267.1	65.9	105.8	172.4	124.6	52.5	1,675.2
2017	0.0	621.2	0.4	0.0	0.0	0.4	187.2	390.1	64.9	106.5	223.1	118.0	48.6	1,760.1
2018	0.0	635.4	0.4	0.0	0.0	0.4	190.4	239.6	65.7	106.3	244.1	127.6	2.5	1,612.0
2019	0.0	587.6	0.4	0.0	0.0	0.4	168.8	341.4	66.8	97.2	250.6	122.2	16.1	1,651.1
2020	0.0	635.5	0.4	0.0	0.0	0.4	169.8	187.5	61.2	99.7	263.7	119.1	11.0	1,547.8

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.
[c] Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
[d] Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.
[e] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[f] There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
[g] Solar thermal and photovoltaic energy.
[h] Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.
[i] Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in the total.

– – = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. · The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.