

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2022, California

Year	Coal Thousand short tons	Natural gas ^a Billion cubic feet	Petroleum							Hydro-electric power ^{g,h} Million kilowatt-hours	Biomass			Solar ^{h,k} Million kilowatt-hours	Electricity ^l End use ^{h,m}	Electrical system energy losses ⁿ	Total ^{h,m}
			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	Geo-thermal ^h				
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	--	--	--
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	76,755	355,172	39,912	47,298	627,091	7	--	--	--	258,531	--	--	--
2011	1,536	1,537	93,562	16,505	76,404	345,678	29,731	52,370	614,252	5	--	--	--	261,942	--	--	--
2012	1,323	1,548	89,754	14,441	76,770	342,083	26,576	48,481	598,105	3	--	--	--	259,538	--	--	--
2013	1,383	1,590	92,378	14,303	78,696	346,483	19,753	52,832	604,446	5	--	--	--	261,332	--	--	--
2014	1,399	1,508	97,091	13,959	80,424	347,508	13,448	50,817	603,247	4	--	--	--	262,585	--	--	--
2015	1,334	1,495	98,183	13,951	86,709	358,108	18,556	50,228	625,736	3	--	--	--	261,170	--	--	--
2016	1,389	1,507	97,108	15,053	93,873	364,832	23,198	R 52,412	R 646,476	12	--	--	--	256,847	--	--	--
2017	1,464	1,516	100,209	14,508	99,777	366,820	26,237	R 52,981	R 660,533	19	--	--	--	257,268	--	--	--
2018	1,438	1,523	99,904	15,198	101,663	365,610	28,865	R 53,549	R 662,789	11	--	--	--	255,224	--	--	--
2019	1,323	1,577	98,339	16,026	103,769	360,243	29,330	R 52,313	R 660,020	14	--	--	--	250,379	--	--	--
2020	1,211	R 1,468	R 91,665	15,152	59,550	289,918	20,054	R 48,245	R 524,584	6	--	--	--	250,175	--	--	--
2021	1,223	1,455	R 98,441	15,791	70,561	319,514	28,262	R 45,832	R 608,402	9	--	--	--	247,250	--	--	--
2022	1,322	1,414	97,745	15,613	82,887	316,425	28,960	86,398	628,028	8	--	--	--	251,869	--	--	--

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	R 394.0	R 3,360.7
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	R 829.2	R 5,349.0
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	R 1,216.3	R 6,383.2
1990	65.3	1,452.7	448.3	72.0	534.7	1,607.3	357.9	433.8	3,454.0	R (s)	146.9	0.2	1.1	R 18.0	720.2	R 5,862.5	R 1,258.4	R 7,120.8
2000	47.9	1,545.2	538.6	45.7	584.0	1,783.4	211.5	388.0	3,551.2	R (s)	88.9	0.3	2.0	R 17.4	832.7	R 6,085.8	R 1,418.9	R 7,504.6
2005	46.7	1,595.1	562.4	46.8	593.1	1,979.7	213.4	401.7	3,797.1	R (s)	72.5	0.9	2.2	R 14.9	867.5	R 6,397.2	R 1,344.8	R 7,742.0
2006	45.1	1,580.1	575.1	45.2	603.3	1,986.8	237.1	396.0	3,843.5	R (s)	63.9	2.3	2.1	R 15.9	897.2	R 6,450.6	R 1,335.2	R 7,785.8
2007	43.1	1,607.1	571.8	43.3	628.2	1,958.0	249.4	405.5	3,856.2	R (s)	66.3	5.1	2.2	R 16.8	901.6	R 6,499.1	R 1,424.2	R 7,923.3
2008	39.4	1,590.2	521.5	60.9	571.7	1,861.0	255.3	348.8	3,619.0	0.0	66.2	5.3	2.2	R 18.0	914.9	R 6,255.9	R 1,492.7	R 7,748.6
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 18.5	885.7	R 6,051.0	R 1,378.7	R 7,429.7
2010	33.2	1,570.1	528.1	63.4	435.2	1,799.7	250.9	288.7	3,366.0	R (s)	80.4	3.3	2.1	R 20.0	882.1	R 5,957.1	R 1,311.2	R 7,268.3
2011	35.6	1,566.1	539.9	63.4	433.2	1,750.2	186.9	322.0	3,295.5	(s)	88.8	8.4	2.1	R 22.0	893.7	R 5,912.2	R 1,264.8	R 7,177.1
2012	30.7	1,579.5	517.6	55.5	435.3	1,731.6	167.1	298.3	3,205.4	(s)	80.9	8.1	2.1	R 25.1	885.5	R 5,817.2	R 1,244.3	R 7,061.5
2013	31.9	1,631.4	532.4	54.9	446.2	1,753.2	124.2	324.4	3,235.3	R (s)	91.4	8.0	2.1	R 28.7	891.7	R 5,920.5	R 1,211.8	R 7,132.3
2014	32.6	1,550.6	559.5	53.6	456.0	1,758.0	84.5	312.2	3,224.0	(s)	88.6	10.2	2.1	R 33.8	895.9	R 5,837.9	R 1,204.4	R 7,042.3
2015	31.0	1,550.3	565.7	53.6	491.6	1,811.0	116.7	308.5	3,347.0	(s)	R 64.0	10.5	2.1	R 38.6	891.1	R 5,934.6	R 1,187.5	R 7,122.1
2016	32.1	1,560.2	559.1	57.8	532.3	1,844.2	145.8	R 329.3	R 3,468.5	R (s)	63.7	10.6	2.1	R 46.5	876.4	R 6,060.1	R 1,052.7	R 7,112.8
2017	33.7	1,569.8	576.9	55.7	565.7	1,853.5	165.0	R 332.4	R 3,549.3	R 0.1	R 65.7	11.3	2.1	R 54.9	877.8	R 6,164.7	R 950.5	R 7,115.2
2018	33.3	1,574.4	575.3	58.4	576.4	1,847.8	168.9	R 336.5	R 3,563.3	R (s)	R 67.8	11.6	2.1	R 63.0	870.8	R 6,186.3	R 1,070.1	R 7,256.4
2019	30.9	R 1,631.1	566.3	61.5	588.4	1,819.9	184.4	R 327.6	R 3,548.1	R (s)	R 72.6	10.3	2.1	R 70.7	854.3	R 6,220.3	R 932.8	R 7,153.1
2020	28.0	R 1,517.8	527.6	58.2	337.6	1,464.7	126.1	R 302.0	R 2,816.2	R (s)	R 83.2	6.0	2.1	R 78.5	853.6	R 5,385.6	R 957.5	R 6,343.1
2021	28.2	1,505.3	R 567.4	60.6	400.1	1,613.5	177.7	R 453.5	R 3,272.9	R (s)	R 86.3	5.1	2.1	R 87.2	843.6	R 5,830.8	R 949.1	R 6,779.9
2022	30.0	1,462.8	563.5	60.0	470.0	1,597.6	182.1	511.8	3,384.9	(s)	65.8	4.4	2.1	101.9	859.4	5,911.5	940.4	6,851.9

^a Includes supplemental gaseous fuels that are commingled with natural gas.
^b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
^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 hydroelectric pumped-storage, 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 Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
^m 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 End Use 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. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.
ⁿ 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 sector 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>.
 Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. <http://www.eia.gov/state/seds/>