

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

Year	Coal Thousand Short Tons	Natural Gas ^a Billion Cubic Feet	Petroleum							Hydro-electric Power ^{g,h} Million Kilowatt-hours	Biomass		Geo-thermal ^h	Solar ^{h,k}	Electricity Retail Sales	Net Energy ^{h,l}	Electrical System Energy Losses ^m	Total ^{h,j}
			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			Million Kilowatt-hours			
															Thousand Barrels			
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	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	R 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	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	1,847.6	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.