

Table ET2. Total End-Use Energy Price and Expenditure Estimates, Selected Years, 1970-2019, California

Year	Primary Energy										Electricity Retail Sales	Total Energy ^{h,i,j}	
	Coal	Natural Gas ^a	Petroleum					Biomass	Total ^{h,i,j}				
			Distillate Fuel Oil ^b	HGL ^c	Jet Fuel ^d	Motor Gasoline ^e	Residual Fuel Oil			Other ^f			Wood and Waste ^{g,h}
Prices in Dollars per Million Btu													
1970	0.46	0.67	1.26	1.80	0.73	2.80	0.37	1.59	1.89	1.40	1.41	4.76	1.74
1975	1.32	1.29	2.97	3.16	2.04	4.84	2.08	2.84	3.79	1.56	2.78	8.71	3.47
1980	1.91	3.55	6.64	6.12	6.21	10.19	4.08	6.51	7.76	2.74	6.43	17.16	7.71
1985	2.26	5.35	6.68	9.93	6.01	8.68	4.71	8.17	7.49	3.30	6.77	22.90	8.90
1990	2.01	4.76	7.51	10.64	5.76	8.57	3.57	7.38	7.37	2.70	6.46	25.98	9.04
1995	1.78	5.14	7.79	11.08	4.15	9.27	2.14	7.53	7.45	2.47	6.62	29.15	9.68
2000	1.67	7.02	10.48	13.99	6.91	12.55	6.24	7.40	10.56	3.00	9.37	27.81	12.05
2001	1.61	8.42	9.58	15.52	5.83	12.27	5.29	7.84	10.20	3.10	9.53	32.90	13.00
2002	1.64	5.80	9.23	13.79	5.40	11.19	5.78	7.84	9.47	3.27	8.29	35.81	12.07
2003	1.68	7.86	10.71	15.72	6.55	13.78	5.90	10.04	11.61	3.57	10.31	34.59	13.83
2004	1.76	8.51	13.67	17.90	9.33	16.30	6.31	10.42	13.96	4.17	12.13	33.33	15.17
2005	2.12	10.41	17.57	21.40	12.85	18.96	5.63	12.10	16.67	4.62	14.63	34.15	17.46
2006	2.39	10.14	19.58	24.20	15.04	21.47	7.29	14.81	18.93	4.76	16.20	37.66	19.40
2007	2.81	9.85	20.59	26.25	16.19	23.34	8.20	15.78	20.32	5.25	17.10	37.62	20.15
2008	2.96	11.36	26.36	30.45	22.24	26.96	16.39	19.09	25.05	6.80	20.76	36.69	23.25
2009	2.95	7.60	17.24	24.64	12.50	20.56	12.57	25.27	18.27	6.31	14.93	38.89	18.68
2010	3.41	8.12	22.32	28.07	16.17	24.76	15.32	33.23	R 22.65	6.89	R 18.00	38.23	R 21.22
2011	3.64	8.19	28.91	32.30	22.51	30.51	20.92	31.20	R 28.55	6.91	R 21.86	38.35	R 24.54
2012	3.54	7.05	29.96	26.39	22.88	32.24	23.28	33.57	R 29.89	6.73	R 22.31	39.75	R 25.17
2013	3.67	7.78	29.29	27.51	21.87	31.08	22.36	31.31	R 28.96	7.42	R 21.86	42.01	R 25.15
2014	3.63	8.87	28.32	29.55	20.37	29.99	21.60	R 32.06	R 28.01	7.94	R 21.86	44.49	R 25.63
2015	3.57	7.99	20.78	19.97	12.21	25.47	11.63	R 29.10	R 22.03	4.73	R 17.63	45.30	R 22.12
2016	3.38	8.42	18.29	18.98	9.82	22.01	8.44	R 25.31	R 22.07	4.02	R 15.56	44.74	R 20.13
2017	3.78	8.87	21.21	23.44	12.00	24.37	11.94	R 25.86	R 21.07	R 4.25	R 17.33	47.17	R 21.94
2018	3.53	8.79	26.79	25.39	15.67	28.09	14.93	R 28.76	R 24.97	R 4.56	R 20.04	R 48.70	R 24.42
2019	3.41	9.50	26.96	21.25	14.76	29.10	14.06	30.03	25.19	4.94	20.26	49.60	24.65

Expenditures in Million Dollars													
1970	28.2	906.5	282.8	96.3	242.7	3,149.1	106.4	245.9	4,123.2	55.4	5,113.4	1,886.6	7,000.0
1975	74.6	1,842.9	717.4	169.0	714.6	6,137.9	397.5	476.2	8,612.6	67.4	10,597.6	4,328.7	14,926.2
1980	126.6	4,138.2	2,337.5	364.9	2,166.4	13,579.1	2,150.9	1,383.3	21,982.1	99.4	26,346.3	9,559.9	35,906.1
1985	102.4	6,121.6	2,765.6	621.8	2,257.8	12,195.2	1,798.8	1,401.5	21,040.6	171.2	27,448.8	14,143.0	41,591.8
1990	131.0	6,399.5	3,361.4	642.0	3,081.3	13,778.7	1,265.1	1,197.3	23,325.8	203.0	30,092.9	18,415.2	48,508.1
1995	108.4	6,959.5	3,300.0	473.2	2,241.5	15,127.1	607.8	1,137.1	22,886.7	143.1	30,097.7	20,824.8	50,922.5
2000	79.9	9,750.4	5,632.2	582.6	4,036.2	22,379.8	1,317.9	1,446.2	35,394.9	152.2	45,377.3	22,904.7	68,282.0
2001	75.4	11,546.5	5,340.1	531.6	3,213.4	22,455.7	819.9	1,453.4	33,813.9	171.3	45,607.1	27,478.6	73,085.8
2002	77.3	8,305.5	4,793.0	677.0	3,146.2	21,497.7	1,109.2	1,500.6	32,723.7	143.1	41,249.6	28,383.9	69,633.5
2003	80.2	11,435.6	5,119.4	742.3	3,702.4	26,329.2	866.1	1,409.5	38,169.0	157.2	49,842.1	28,392.1	78,234.1
2004	81.5	12,997.3	7,448.0	903.1	5,573.8	31,858.8	1,101.1	1,473.8	48,358.6	172.4	61,609.8	28,340.4	89,950.2
2005	99.2	15,203.2	9,865.4	873.2	7,623.0	37,538.3	1,201.4	1,676.5	58,777.9	191.1	74,271.5	29,302.7	103,574.2
2006	107.9	14,436.4	11,242.2	988.2	9,072.0	42,647.7	1,189.4	1,896.4	67,570.5	191.6	82,306.4	33,433.0	115,739.4
2007	121.0	14,215.8	11,756.6	1,038.9	10,167.5	45,691.3	2,044.6	2,303.7	73,002.6	215.7	87,555.2	33,545.9	121,101.0
2008	116.8	16,054.3	13,723.0	1,741.4	12,718.0	50,163.2	4,148.4	2,339.1	84,833.1	268.7	101,272.9	33,207.2	134,480.1
2009	92.3	10,567.5	8,719.0	1,415.8	6,942.6	37,335.0	3,043.2	2,100.9	59,556.5	243.4	70,459.8	34,097.2	104,556.9
2010	113.0	11,241.0	11,769.5	1,716.0	R 7,127.4	44,565.2	3,843.8	2,303.5	R 71,325.5	305.9	R 82,985.4	33,381.8	R 116,367.2
2011	129.5	11,449.7	15,575.3	2,011.6	R 9,936.5	53,395.0	3,910.0	2,905.8	R 87,734.1	366.1	R 99,679.4	33,919.1	R 133,598.4
2012	108.7	9,861.9	15,485.1	1,428.6	R 10,156.5	55,821.5	3,889.0	2,820.1	R 89,600.9	343.3	R 99,914.7	34,852.5	R 134,767.2
2013	117.3	11,068.2	15,576.6	1,480.9	R 9,903.2	54,489.2	2,776.5	3,043.5	R 87,269.9	409.3	R 98,864.7	37,028.1	R 135,892.8
2014	118.3	11,767.3	15,831.4	1,540.4	R 9,520.1	52,719.0	1,826.3	R 3,080.8	R 84,518.0	410.5	R 96,814.2	39,424.1	R 136,238.2
2015	110.4	10,670.2	11,739.3	R 1,021.4	R 6,129.8	46,122.1	1,353.5	R 2,964.0	R 69,330.2	190.4	R 80,301.3	39,979.2	R 120,280.5
2016	108.4	11,287.0	10,207.2	R 1,072.2	R 5,372.0	40,583.9	1,228.6	R 2,597.0	R 61,061.0	R 163.3	R 72,619.6	36,787.2	R 111,406.8
2017	127.4	R 12,009.7	12,220.6	R 1,270.6	R 6,988.6	45,176.0	1,968.3	R 2,528.8	R 70,152.8	R 171.4	R 82,461.3	40,960.0	R 123,421.3
2018	117.6	R 11,941.6	15,391.1	R 1,431.0	R 9,283.0	51,912.7	2,520.3	R 2,801.9	R 83,340.0	R 188.7	R 95,587.9	R 41,972.2	R 137,560.1
2019	105.4	13,412.6	15,257.2	1,275.3	8,885.2	52,964.7	2,592.0	2,744.1	83,718.4	215.2	97,451.6	41,971.4	139,423.1

^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 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
^h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.

ⁱ There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
^j For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
 Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
 Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.
 Notes: Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. Expenditure totals may not equal sum of components due to independent rounding.
 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.