

**Table ET1. Primary Energy, Electricity, and Total Energy Price and Expenditure Estimates, Selected Years, 1970-2019, California**

Year	Primary Energy												Nuclear Fuel	Biomass Wood and Waste g,h	Total h,i,j,k	Electric Power Sector i,k,l	Electricity Retail Sales	Total Energy h,i,j
	Coal			Natural Gas a	Petroleum						Total							
	Coking Coal	Steam Coal	Total		Distillate Fuel Oil b	HGL c	Jet Fuel d	Motor Gasoline e	Residual Fuel Oil	Other f								
Prices in Dollars per Million Btu																		
1970	0.43	0.96	0.46	0.56	1.26	1.80	0.73	2.80	0.38	1.59	1.80	0.19	1.39	1.21	0.34	4.76	1.74	
1975	1.38	0.92	1.32	1.25	2.97	3.16	2.04	4.84	2.38	2.84	3.56	0.21	1.55	2.61	1.82	8.71	3.47	
1980	1.97	1.82	1.91	3.54	6.62	6.12	6.21	10.19	4.49	6.51	7.42	0.49	2.74	5.95	3.99	17.16	7.71	
1985	—	2.26	2.26	5.01	6.67	9.93	6.01	8.68	4.75	8.17	7.46	0.96	3.30	6.20	3.80	22.90	8.90	
1990	—	1.89	1.89	4.20	7.50	10.64	5.76	8.57	3.66	7.18	7.31	0.72	1.38	5.63	2.25	25.98	9.04	
1995	—	1.66	1.66	4.22	7.78	11.08	4.15	9.27	2.14	6.88	7.40	0.43	2.53	5.69	1.69	29.15	9.68	
2000	—	1.57	1.57	6.54	10.43	13.99	6.91	12.55	6.24	6.75	10.49	0.45	2.12	8.21	4.21	27.81	12.05	
2001	—	1.46	1.46	8.78	9.53	15.52	5.83	12.27	5.30	7.15	10.13	0.43	2.39	8.87	6.72	32.90	13.00	
2002	—	1.71	1.71	5.10	9.22	13.79	5.40	11.19	5.78	7.15	9.42	0.49	2.62	7.17	2.64	35.81	12.07	
2003	—	1.71	1.71	7.04	10.70	15.72	6.55	13.78	5.90	8.75	11.53	0.46	3.07	8.97	3.67	34.59	13.83	
2004	—	1.82	1.82	7.61	13.66	17.90	9.33	16.30	6.31	9.20	13.89	0.47	3.56	10.59	4.21	33.33	15.17	
2005	—	1.91	1.91	9.57	17.55	21.40	12.85	18.96	5.63	10.51	16.56	0.44	4.08	12.81	5.22	34.15	17.46	
2006	—	2.16	2.16	8.83	19.57	24.20	15.04	21.47	7.29	12.90	18.82	0.45	4.38	13.92	4.67	37.66	19.40	
2007	—	2.47	2.47	8.61	20.58	26.25	16.19	23.34	8.20	14.03	20.22	0.47	6.85	14.53	4.95	37.62	20.15	
2008	—	2.67	2.67	10.07	26.35	30.45	22.24	26.96	16.39	16.90	24.93	0.48	4.10	17.50	5.79	36.69	23.25	
2009	—	2.66	2.66	6.38	17.23	24.64	12.50	20.56	12.57	21.28	18.18	0.54	4.26	12.43	3.28	38.89	18.68	
2010	—	2.94	2.94	6.97	22.32	28.07	16.17	24.76	15.32	28.54	R 22.57	0.58	4.72	R 14.99	3.60	38.23	R 21.22	
2011	—	3.13	3.13	7.08	28.91	32.30	22.51	30.51	20.92	28.31	R 28.47	0.67	5.04	R 18.16	3.29	38.35	R 24.54	
2012	—	3.05	3.05	5.72	29.96	26.39	22.88	32.24	23.28	32.82	R 29.87	0.73	4.44	R 18.30	3.22	39.75	R 25.17	
2013	—	3.39	3.39	6.52	29.29	27.51	21.87	31.08	22.36	31.23	R 28.96	0.71	4.46	R 18.20	3.89	42.01	R 25.15	
2014	—	3.43	3.43	7.37	28.31	29.55	20.37	29.99	21.60	R 31.98	R 28.01	0.65	4.80	R 18.25	4.51	44.49	R 25.63	
2015	—	3.57	3.57	6.18	20.77	19.97	12.21	25.47	11.63	R 29.10	R 22.03	0.65	3.35	R 14.70	3.10	45.30	R 22.12	
2016	—	3.38	3.38	6.60	18.28	18.98	9.82	22.01	8.44	25.31	R 18.76	0.65	3.10	R 13.30	R 2.88	44.74	R 20.13	
2017	—	3.78	3.78	7.22	21.21	23.44	12.00	24.37	11.94	R 25.86	R 21.07	0.67	R 3.11	R 15.04	3.25	47.17	R 21.94	
2018	—	3.53	3.53	7.42	26.78	25.39	15.67	28.09	14.93	R 28.76	R 24.97	0.68	R 3.12	R 17.41	3.68	R 48.70	R 24.42	
2019	—	3.41	3.41	7.81	26.96	21.25	14.76	29.10	14.06	30.03	25.19	0.67	3.36	17.71	3.17	49.60	24.65	
Expenditures in Million Dollars																		
1970	25.6	2.7	28.2	1,126.7	283.0	96.3	242.7	3,149.1	161.1	245.9	4,178.2	6.7	55.8	5,395.5	-282.1	1,886.6	7,000.0	
1975	67.7	6.9	74.6	2,148.2	719.4	169.0	716.0	6,137.9	1,628.1	476.2	9,846.6	14.4	67.6	12,151.3	-1,553.7	4,328.7	14,926.2	
1980	79.8	46.8	126.6	6,063.2	2,390.8	364.9	2,199.3	13,579.1	4,131.7	1,383.3	24,049.1	26.1	99.7	30,367.1	-4,020.8	9,559.9	35,906.1	
1985	—	102.4	102.4	9,251.8	2,775.8	621.8	2,257.8	12,195.2	1,953.0	1,401.5	21,205.0	200.4	171.3	31,077.6	-3,628.8	14,143.0	41,591.8	
1990	—	159.2	159.2	8,366.4	3,368.4	642.0	3,081.3	13,778.7	1,461.5	1,201.3	23,533.1	249.6	203.0	32,691.9	-2,599.0	18,415.2	48,508.1	
1995	—	140.2	140.2	8,337.7	3,302.9	473.2	2,241.5	15,127.1	617.7	1,148.0	22,910.4	135.1	305.1	31,870.2	-1,772.5	20,824.8	50,922.5	
2000	—	109.9	109.9	15,046.1	5,664.6	582.6	4,036.2	22,379.8	1,321.2	1,454.8	35,439.2	164.9	255.2	51,330.7	-5,953.3	22,904.7	68,280.1	
2001	—	98.8	98.8	20,823.3	5,390.5	531.6	3,213.4	22,455.7	838.3	1,463.6	33,893.0	150.3	277.2	55,481.5	-9,874.4	27,478.6	73,085.8	
2002	—	120.0	120.0	11,081.2	4,800.5	677.0	3,146.2	21,497.7	1,110.7	1,511.5	32,743.6	175.5	327.2	44,510.6	-3,261.0	28,383.9	69,633.5	
2003	—	118.7	118.7	15,315.0	5,128.6	742.3	3,702.4	26,329.2	866.5	1,420.4	38,189.4	172.1	357.8	54,339.9	-4,497.9	28,392.1	78,234.1	
2004	—	125.2	125.2	17,658.9	7,460.5	903.1	5,573.8	31,858.8	1,101.1	1,483.8	48,381.1	148.8	402.5	66,777.5	-5,167.7	28,340.4	89,950.2	
2005	—	128.8	128.8	20,771.7	9,879.3	873.2	7,623.0	37,538.3	1,201.6	1,687.5	58,803.0	167.2	466.5	80,654.8	-6,383.3	29,302.7	103,574.2	
2006	—	144.7	144.7	19,608.7	11,258.3	988.2	9,072.0	42,647.7	1,724.8	1,914.7	67,605.6	148.5	504.2	88,185.3	-5,878.9	33,433.0	115,739.4	
2007	—	164.3	164.3	19,822.2	11,772.4	1,038.9	10,167.5	45,691.3	2,045.5	2,332.3	73,047.9	176.8	771.4	94,343.6	-6,788.4	33,545.9	121,101.0	
2008	—	168.6	168.6	23,114.5	13,745.9	1,741.4	12,718.0	50,163.2	4,149.3	2,366.4	84,884.1	161.8	467.4	109,131.3	-7,858.4	33,207.2	134,480.1	
2009	—	139.5	139.5	14,159.1	8,728.6	1,415.8	6,942.6	37,335.0	3,044.0	2,127.1	59,593.1	179.7	494.9	74,692.2	-4,232.4	34,097.2	104,556.9	
2010	—	161.4	161.4	14,914.1	11,777.6	1,716.0	R 7,127.4	44,565.2	3,844.7	R 2,330.5	R 71,361.4	196.7	582.4	R 87,373.7	-4,388.3	33,381.8	R 116,367.2	
2011	—	173.1	173.1	14,353.7	15,583.9	2,011.6	R 9,936.5	53,395.0	3,910.1	R 2,936.2	R 87,773.4	256.0	614.3	R 103,417.1	-3,737.7	33,919.1	R 133,598.4	
2012	—	133.6	133.6	13,009.6	15,494.6	1,428.6	R 10,156.5	55,821.5	3,889.0	2,824.5	R 89,614.8	140.9	560.5	R 103,747.4	-3,832.6	34,852.5	R 134,767.2	
2013	—	129.5	129.5	14,808.6	15,584.9	1,480.9	R 9,903.2	54,489.2	2,776.5	3,044.1	R 87,278.8	133.1	577.0	R 103,358.5	-4,493.8	37,028.1	R 135,892.8	
2014	—	135.3	135.3	16,107.9	15,838.9	1,540.4	R 9,520.1	52,719.0	1,826.3	R 3,081.3	R 84,526.0	115.2	624.4	R 102,070.4	-5,256.3	39,424.1	R 136,238.2	
2015	—	110.4	110.4	13,410.4	11,743.7	R 1,021.4	R 6,129.8	46,122.1	1,353.5	R 2,964.0	R 69,334.5	126.7	388.9	R 83,866.6	-3,565.3	39,979.2	R 120,280.5	
2016	—	108.4	108.4	13,391.6	10,211.5	R 1,072.2	R 5,372.0	40,583.9	1,228.6	R 2,597.0	R 61,065.3	127.9	R 330.4	R 75,529.3	R -2,909.7	38,787.2	R 111,406.8	
2017	—	127.4	127.4	R 14,269.4	12,226.0	R 1,270.6	R 6,988.6	45,176.0	1,968.3	R 2,528.8	R 70,158.3	124.9	R 327.1	R 85,467.8	-3,006.5	40,960.0	R 123,421.3	
2018	—	117.6	117.6	R 14,793.7	15,397.6	R 1,431.0	R 9,283.0	51,912.7	2,520.3	R 2,801.9	R 83,346.5	129.1	R 334.3	R 98,953.2	R -3,365.4	R 41,972.2	R 137,560.1	
2019	—	105.4	105.4	15,612.1	15,263.0	1,275.3	8,885.2	52,964.7	2,592.0	2,744.1	83,724.2	113.6	371.1	100,135.8	-2,684.2	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.  
 k Electricity imports are included in total primary energy and electric power sector but are not shown separately.  
 l Expenditures for fuels purchased for electric power generation, included in the expenditure columns for the primary energy sources, are shown as negative expenditures because they need to be removed from total energy expenditures, to avoid double-counting.  
 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.  
 Note: 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.

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

Year	Primary Energy										Electricity Retail Sales	Total Energy <sup>h,i,j</sup>	
	Coal	Natural Gas <sup>a</sup>	Petroleum						Biomass	Total <sup>h,i,j</sup>			
			Distillate Fuel Oil <sup>b</sup>	HGL <sup>c</sup>	Jet Fuel <sup>d</sup>	Motor Gasoline <sup>e</sup>	Residual Fuel Oil	Other <sup>f</sup>					Wood and Waste <sup>g,h</sup>
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	1,224.1	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

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil.  
<sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.  
<sup>d</sup> 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."  
<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.  
<sup>f</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.  
<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>h</sup> 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.

<sup>i</sup> There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.  
<sup>j</sup> 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.

**Table ET3. Residential Sector Energy Price and Expenditure Estimates, Selected Years, 1970-2019, California**

Year	Primary Energy								Electricity Retail Sales	Total Energy <sup>e</sup>
	Coal <sup>a</sup>	Natural Gas <sup>b</sup>	Petroleum				Biomass	Total <sup>e</sup>		
			Distillate Fuel Oil	HGL <sup>c</sup>	Kerosene	Total				
Prices in Dollars per Million Btu										
1970	1.31	0.93	1.27	2.62	2.57	2.43	0.82	0.99	6.53	1.91
1975	—	1.49	2.80	4.45	5.08	4.15	1.62	1.54	10.68	3.19
1980	5.13	3.37	6.92	8.15	13.04	8.14	4.15	3.53	17.18	6.70
1985	4.54	5.51	5.25	8.66	11.15	8.57	4.69	5.57	22.80	9.83
1990	3.77	5.60	5.70	12.45	7.44	11.95	4.75	5.78	29.26	12.36
1995	3.77	6.35	6.93	11.79	5.10	11.34	3.86	6.41	34.02	14.94
2000	3.72	8.58	10.78	15.29	9.87	14.58	5.88	8.74	31.92	16.56
2001	3.48	10.27	10.10	17.27	8.99	15.47	5.62	10.30	35.43	18.38
2002	3.87	6.98	8.76	15.02	9.19	14.26	5.09	7.14	37.05	16.80
2003	3.77	8.95	10.55	17.38	9.10	16.75	6.11	9.19	35.84	18.28
2004	3.61	9.67	12.84	19.68	11.61	19.01	6.95	10.04	35.75	18.64
2005	3.56	11.58	16.92	22.74	13.76	22.07	9.20	12.14	36.66	20.78
2006	3.73	11.53	19.39	25.86	22.13	25.42	10.60	12.21	42.01	23.00
2007	—	11.24	20.88	27.70	24.26	27.46	11.71	12.07	42.27	22.89
2008	—	12.41	25.91	31.77	30.07	31.60	14.42	13.62	40.46	23.34
2009	—	9.18	18.29	25.93	25.27	25.40	10.83	10.23	43.21	22.13
2010	—	9.71	23.26	30.42	27.17	30.14	12.78	11.03	43.24	22.27
2011	—	9.74	28.64	33.04	32.46	32.94	15.36	11.18	43.30	22.29
2012	—	8.96	29.84	30.23	33.86	30.26	17.11	10.12	44.95	22.99
2013	—	9.67	29.57	30.00	33.54	30.03	16.76	10.80	47.56	24.12
2014	—	11.19	28.90	35.20	33.37	34.99	16.34	12.45	47.61	26.72
2015	—	10.99	20.26	26.66	17.21	26.42	11.26	11.74	49.80	27.18
2016	—	11.44	16.89	25.48	13.72	25.09	9.62	12.11	50.98	R 27.51
2017	—	12.06	19.24	29.48	17.12	29.14	10.76	12.85	53.66	28.84
2018	—	11.90	22.44	30.60	24.73	30.38	11.90	12.87	55.20	29.45
2019	—	12.52	21.61	26.89	23.09	26.74	11.46	13.24	56.14	28.91
Expenditures in Million Dollars										
1970	1.8	544.3	3.7	45.5	2.4	51.6	6.2	603.8	797.6	1,401.4
1975	—	993.8	8.0	40.4	6.1	54.6	13.9	1,062.3	1,612.8	2,675.0
1980	0.1	1,861.6	3.8	134.6	1.3	139.7	68.6	2,069.9	3,049.5	5,119.4
1985	1.2	3,016.1	4.4	155.6	4.6	164.6	133.9	3,315.9	4,472.8	7,788.7
1990	0.4	2,971.3	6.7	240.3	3.7	250.7	146.2	3,368.6	6,646.5	10,015.1
1995	1.5	3,067.4	7.1	193.3	2.3	202.7	92.2	3,363.8	7,983.3	11,347.1
2000	0.2	4,242.4	15.1	273.6	15.7	304.4	91.6	4,638.6	8,629.0	13,267.5
2001	(s)	5,347.4	17.3	212.1	17.8	247.1	84.0	5,678.6	9,269.0	14,947.6
2002	(s)	3,633.2	7.5	214.7	11.3	233.4	77.4	3,944.0	9,758.5	13,702.5
2003	(s)	4,546.3	7.4	356.1	10.1	373.6	97.8	5,017.7	10,141.6	15,159.2
2004	0.1	5,048.8	10.6	489.6	18.2	518.4	113.8	5,681.1	10,168.5	15,849.5
2005	0.1	5,731.8	15.3	643.3	23.7	682.3	100.2	6,514.4	10,707.6	17,222.0
2006	(s)	5,798.0	17.3	638.6	36.0	691.8	102.4	6,592.3	12,875.5	19,467.8
2007	—	5,696.8	11.6	725.5	21.0	758.0	125.0	6,579.8	12,859.8	19,439.7
2008	—	6,238.6	21.8	1,021.6	13.8	1,057.1	172.3	7,468.1	12,594.7	20,062.8
2009	—	4,533.2	41.1	782.8	24.6	848.5	170.1	5,551.8	13,238.6	18,790.4
2010	—	4,909.3	21.7	965.1	22.2	1,009.0	215.2	6,133.4	12,873.6	19,007.0
2011	—	5,089.8	18.0	993.4	20.3	1,031.7	250.9	6,372.3	13,060.9	19,433.3
2012	—	4,368.3	11.0	687.0	9.1	707.1	233.4	5,308.9	13,821.6	19,130.4
2013	—	4,779.2	16.3	684.6	8.6	709.5	298.3	5,787.0	14,481.1	20,268.1
2014	—	4,575.1	15.7	661.9	11.1	688.7	294.4	5,558.2	14,517.4	20,075.6
2015	—	4,569.4	9.0	563.2	4.3	576.4	104.4	5,250.2	15,187.8	20,438.0
2016	—	4,876.0	7.4	586.2	6.5	600.1	R 83.4	R 5,559.6	15,359.8	R 20,919.4
2017	—	5,383.3	7.9	651.4	4.9	664.2	R 90.8	R 6,138.2	16,500.8	R 22,639.1
2018	—	5,214.2	10.4	736.8	7.1	754.4	R 111.1	R 6,079.7	16,782.2	R 22,861.9
2019	—	6,017.5	10.4	697.8	9.7	717.9	130.4	6,865.8	16,763.8	23,629.6

<sup>a</sup> Beginning in 2008, consumption data are no longer collected and are assumed to be zero.  
<sup>b</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.  
<sup>d</sup> Wood and wood-derived fuels.  
<sup>e</sup> There are no direct fuel costs for geothermal or solar energy.

Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.  
 Note: 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.

Table ET4. Commercial Sector Energy Price and Expenditure Estimates, Selected Years, 1970-2019, California

Year	Primary Energy									Electricity Retail Sales	Total Energy <sup>f,g,h</sup>	
	Coal	Natural Gas <sup>a</sup>	Petroleum					Biomass	Total <sup>f,g,h</sup>			
			Distillate Fuel Oil	HGL <sup>b</sup>	Kerosene	Motor Gasoline <sup>c</sup>	Residual Fuel Oil					Wood and Waste <sup>e,f</sup>
Prices in Dollars per Million Btu												
1970	0.63	0.69	1.12	1.35	0.78	2.80	0.40	0.78	0.82	0.71	5.02	2.08
1975	—	1.22	2.60	2.68	2.50	4.84	2.45	2.92	1.62	1.48	8.73	4.36
1980	1.82	3.82	6.60	4.98	6.38	10.19	4.90	5.98	4.15	4.30	17.99	9.55
1985	2.25	6.39	5.93	9.48	11.15	8.68	3.93	7.46	4.69	6.53	23.61	15.05
1990	2.00	4.96	5.63	8.95	7.44	8.57	3.00	6.44	4.66	5.16	26.32	15.03
1995	1.76	6.14	5.11	10.22	5.10	9.27	2.70	6.45	3.04	6.08	30.09	17.67
2000	1.66	7.88	7.97	13.35	9.87	12.55	4.31	9.50	3.81	7.96	28.91	19.72
2001	1.61	9.19	6.99	14.52	8.99	12.27	3.51	8.71	3.93	9.07	34.50	23.56
2002	1.64	5.96	6.52	12.06	9.19	11.19	—	8.29	3.22	6.07	38.00	24.64
2003	1.68	7.99	7.90	12.99	9.10	13.78	—	10.39	3.93	8.08	36.57	24.78
2004	1.76	8.46	10.91	14.87	11.61	16.30	—	13.26	4.02	8.77	34.11	24.08
2005	2.12	10.45	14.85	17.84	13.76	18.96	—	16.33	4.29	10.80	34.92	25.28
2006	2.39	10.20	17.14	20.49	22.13	21.47	—	18.93	3.84	10.59	37.79	26.96
2007	—	9.91	18.32	22.25	24.26	23.34	—	20.25	4.84	10.53	37.57	26.68
2008	—	11.43	24.46	25.91	30.07	26.96	—	25.12	5.83	12.63	36.77	26.96
2009	—	7.55	14.76	19.98	25.27	20.56	—	16.47	4.59	8.39	38.90	26.30
2010	—	8.13	18.93	21.61	27.17	24.76	—	19.80	5.19	9.53	38.38	26.30
2011	—	8.13	25.42	26.35	32.46	30.51	—	25.87	3.93	9.99	38.24	26.50
2012	—	6.91	26.06	19.31	33.86	32.24	—	24.50	3.49	8.58	39.29	26.31
2013	—	7.61	25.39	20.35	33.54	31.08	—	24.28	3.60	9.04	41.63	27.49
2014	—	8.80	23.94	21.11	33.37	29.99	15.94	23.31	3.91	10.08	45.78	30.97
2015	—	7.75	15.13	13.23	17.21	25.47	8.31	21.51	2.46	10.80	46.12	30.05
2016	—	8.13	12.79	13.40	13.72	22.01	6.11	18.51	1.89	10.44	44.18	28.63
2017	—	8.46	15.25	17.20	17.12	24.37	—	21.10	2.01	11.37	46.20	30.21
2018	—	8.29	18.85	18.26	24.73	28.09	—	24.42	2.09	12.01	47.90	30.96
2019	—	9.10	18.12	16.08	23.09	29.10	—	24.54	2.71	12.59	48.86	31.41

  

Expenditures in Million Dollars												
1970	0.7	152.9	4.3	8.1	2.3	21.8	21.8	58.2	0.1	211.9	696.1	908.0
1975	—	309.6	9.8	8.4	9.2	41.2	67.4	136.1	0.3	445.9	1,723.0	2,168.9
1980	0.1	1,027.9	124.0	28.5	8.0	96.1	209.9	466.5	1.7	1,496.2	3,894.7	5,391.0
1985	2.2	1,359.7	118.0	58.9	22.3	80.2	0.9	280.3	3.2	1,645.5	5,928.2	7,573.6
1990	0.9	1,460.5	134.1	59.8	0.8	86.8	16.7	298.2	16.1	1,775.9	7,931.4	9,707.2
1995	4.8	1,730.8	94.1	58.0	0.8	11.4	0.1	164.3	13.9	1,913.8	8,832.3	10,746.1
2000	0.8	1,858.2	143.9	82.6	2.9	15.5	(s)	244.9	16.9	2,120.7	9,852.9	11,973.6
2001	(s)	2,293.3	115.4	61.7	3.2	15.7	0.6	196.6	17.2	2,507.1	12,642.5	15,149.6
2002	(s)	1,446.5	83.1	59.6	1.4	14.7	—	158.8	17.7	1,623.0	14,130.8	15,753.8
2003	(s)	1,898.2	82.5	108.7	2.4	18.7	—	212.4	23.6	2,134.3	13,672.0	15,806.3
2004	0.3	1,998.7	105.6	175.7	4.7	23.0	—	308.9	25.4	2,333.3	13,846.0	16,179.3
2005	0.9	2,491.6	170.0	165.5	4.6	27.0	—	367.1	24.9	2,884.6	14,007.1	16,891.7
2006	0.1	2,549.4	147.3	141.1	6.8	31.7	—	326.9	25.5	2,901.8	15,636.1	18,537.9
2007	—	2,560.4	194.3	172.1	4.2	33.6	—	404.2	29.1	2,993.7	15,854.4	18,848.1
2008	—	2,949.8	402.4	258.8	2.4	38.1	—	701.6	35.7	3,687.1	15,684.2	19,371.3
2009	—	1,920.3	299.4	159.4	2.9	28.1	—	489.8	29.9	2,439.9	16,074.7	18,514.6
2010	—	2,058.4	516.5	186.4	5.1	33.0	—	741.1	35.2	2,834.6	15,863.5	18,698.1
2011	—	2,040.5	614.6	222.1	4.7	40.1	—	881.4	49.9	2,971.8	16,018.1	18,989.9
2012	—	1,784.7	566.2	165.3	1.6	41.7	—	774.8	49.8	2,609.3	16,327.2	18,936.5
2013	—	1,990.3	510.9	165.5	1.5	42.2	—	720.1	52.1	2,762.5	16,597.9	19,360.4
2014	—	2,151.0	461.7	205.3	1.7	39.0	0.1	707.7	55.7	2,914.4	18,663.2	21,577.6
2015	—	1,895.8	317.5	105.9	0.8	1,290.4	(s)	1,714.6	31.9	3,642.3	18,627.1	22,269.4
2016	—	1,995.3	270.5	147.0	1.1	1,117.9	(s)	1,536.5	23.0	3,554.7	17,603.2	21,157.9
2017	—	2,079.2	328.1	189.2	1.0	1,254.9	—	1,773.2	22.0	3,874.4	18,552.2	22,426.7
2018	—	2,125.5	391.6	228.8	1.1	1,473.4	—	2,094.9	23.2	4,243.6	18,924.3	23,167.9
2019	—	2,408.8	362.9	213.6	1.1	1,537.4	—	2,115.0	29.1	4,552.9	19,052.2	23,605.0

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>b</sup> Hydrocarbon gas liquids, assumed to be propane only.

<sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See Consumption Technical Notes, Section 4.

<sup>d</sup> Includes small amounts of petroleum coke not shown separately.

<sup>e</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

<sup>f</sup> 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.

<sup>g</sup> There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.

<sup>h</sup> 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: Expenditure 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.

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 ET5. Industrial Sector Energy Price and Expenditure Estimates, Selected Years, 1970-2019, California**

Year	Primary Energy											Electricity Retail Sales	Total Energy f,g,h	
	Coal			Natural Gas <sup>a</sup>	Petroleum					Biomass	Total f,g,h			
	Coking Coal	Steam Coal	Total		Distillate Fuel Oil	HGL <sup>b</sup>	Motor Gasoline <sup>c</sup>	Residual Fuel Oil	Other <sup>d</sup>	Total				Wood and Waste <sup>e,f</sup>
														Total
Prices in Dollars per Million Btu														
1970	0.43	0.63	0.43	0.38	0.68	1.42	2.80	0.35	1.13	0.97	1.54	0.60	2.90	0.90
1975	1.38	0.92	1.32	1.05	2.21	2.92	4.84	1.66	2.31	2.35	1.54	1.50	6.70	2.24
1980	1.97	1.82	1.91	3.64	5.49	5.43	10.19	3.16	5.79	5.36	1.51	4.27	16.04	6.22
1985	—	2.25	2.25	4.54	6.19	10.65	8.68	3.93	6.98	6.34	1.51	5.20	22.00	7.96
1990	—	2.00	2.00	3.79	5.69	9.97	8.57	3.00	5.64	6.21	0.99	4.31	21.35	7.09
1995	—	1.76	1.76	3.66	5.44	10.66	9.27	2.70	5.69	6.14	1.26	4.11	21.59	7.05
2000	—	1.66	1.66	5.53	7.99	12.77	12.55	4.31	5.67	7.09	1.42	5.69	20.94	8.25
2001	—	1.61	1.61	6.50	7.08	14.42	12.27	3.51	6.12	7.33	1.95	6.38	27.05	9.87
2002	—	1.64	1.64	4.84	6.80	13.49	11.19	3.95	6.01	7.33	2.08	5.37	28.75	8.40
2003	—	1.68	1.68	7.05	8.19	15.09	13.78	4.59	7.67	9.06	1.62	7.13	28.11	10.04
2004	—	1.76	1.76	7.74	11.27	17.27	16.30	5.20	7.86	10.48	1.78	8.00	27.18	10.44
2005	—	2.12	2.12	9.62	15.45	20.60	18.96	7.17	9.02	12.46	2.68	9.73	27.98	12.25
2006	—	2.39	2.39	9.09	17.40	23.04	21.47	8.65	10.64	14.76	2.66	9.94	29.57	12.83
2007	—	2.81	2.81	8.81	18.29	26.49	23.34	10.04	11.87	15.18	2.52	9.84	29.26	12.67
2008	—	2.96	2.96	10.51	24.53	31.75	26.96	13.91	14.12	19.81	2.83	12.14	29.56	14.80
2009	—	2.95	2.95	6.39	14.78	25.25	20.56	—	19.68	18.52	2.66	8.53	30.54	11.95
2010	—	3.41	3.41	6.87	19.10	27.24	24.76	—	25.89	23.07	2.68	9.93	28.72	12.94
2011	—	3.64	3.64	6.91	25.33	33.59	30.51	15.24	23.87	26.45	2.73	11.22	29.62	14.09
2012	—	3.54	3.54	5.66	26.29	25.38	32.24	16.16	26.16	27.07	2.60	10.22	30.75	13.21
2013	—	3.67	3.67	6.40	25.76	27.78	31.08	16.26	24.81	26.41	2.57	10.77	33.52	14.43
2014	—	3.63	3.63	7.44	24.38	28.71	29.99	15.94	R 25.35	R 25.87	3.11	11.33	36.16	15.23
2015	—	3.57	3.57	6.18	15.30	R 16.08	25.47	8.31	R 22.14	R 19.47	3.00	9.13	35.65	13.28
2016	—	3.38	3.38	6.56	13.21	15.09	22.01	6.11	R 18.46	16.76	2.88	8.73	34.94	12.73
2017	—	3.78	3.78	6.81	15.69	20.42	24.37	—	R 18.98	R 18.69	R 2.80	R 9.37	37.31	R 13.50
2018	—	3.53	3.53	6.89	19.01	R 23.67	28.09	11.44	R 21.74	21.96	R 2.59	R 10.06	R 38.69	14.42
2019	—	3.41	3.41	7.44	17.84	17.50	29.10	11.27	22.64	21.48	2.60	10.25	39.27	14.58

  

Expenditures in Million Dollars														
1970	25.6	0.2	25.8	209.3	31.2	41.1	28.6	21.3	141.6	263.7	49.2	548.0	392.2	940.2
1975	67.7	6.9	74.6	539.6	126.2	116.1	34.0	62.4	324.1	662.8	53.2	1,330.2	988.9	2,319.1
1980	79.8	46.5	126.4	1,248.7	489.1	191.9	90.9	204.4	1,116.8	2,093.1	29.1	3,497.3	2,607.7	6,105.0
1985	—	99.0	99.0	1,745.8	636.7	359.5	139.8	428.9	1,024.9	2,589.9	34.1	4,468.9	3,725.4	8,194.4
1990	—	129.7	129.7	1,967.7	562.9	307.5	142.4	23.6	781.9	1,818.3	40.6	3,956.7	3,827.3	7,784.0
1995	—	102.2	102.2	2,156.6	365.1	196.8	137.5	19.1	738.6	1,457.1	37.0	3,752.9	3,986.7	7,739.6
2000	—	78.8	78.8	3,635.9	861.1	207.4	128.7	1.0	976.2	2,174.5	43.8	5,933.0	4,403.2	10,336.3
2001	—	75.4	75.4	3,888.1	886.1	234.1	289.2	0.2	1,004.0	2,413.7	70.1	6,447.3	5,541.7	11,989.0
2002	—	77.3	77.3	3,213.6	574.5	376.9	280.4	(s)	1,026.5	2,258.4	48.1	5,597.4	4,469.5	10,066.9
2003	—	80.2	80.2	4,971.4	505.3	247.3	358.7	(s)	929.4	2,040.6	35.9	7,128.1	4,531.6	11,659.7
2004	—	81.2	81.2	5,923.1	922.1	206.0	484.6	(s)	955.4	2,568.1	33.1	8,605.5	4,268.2	12,873.7
2005	—	98.2	98.2	6,896.9	1,175.1	0.1	529.2	(s)	1,071.3	2,775.7	66.0	9,836.8	4,532.7	14,369.5
2006	—	107.8	107.8	6,010.6	1,384.1	136.2	612.5	0.9	1,161.8	3,295.5	63.7	9,477.7	4,866.2	14,343.9
2007	—	121.0	121.0	5,873.6	1,199.7	72.3	533.7	—	1,515.3	3,321.0	61.6	9,377.2	4,760.7	14,137.9
2008	—	116.8	116.8	6,733.4	1,781.0	316.7	540.9	3.8	1,496.2	4,138.6	60.7	11,049.5	4,857.6	15,907.1
2009	—	92.3	92.3	4,016.6	875.2	389.3	391.6	—	1,339.2	2,995.3	43.5	7,147.7	4,713.4	11,861.1
2010	—	113.0	113.0	4,198.0	1,330.1	546.6	724.3	(s)	1,323.0	3,924.0	55.6	8,290.6	4,576.8	12,867.4
2011	—	129.5	129.5	4,212.1	1,926.1	R 775.2	877.0	(s)	1,813.3	R 5,391.6	65.3	R 9,798.5	4,772.8	R 14,571.3
2012	—	108.7	108.7	3,606.1	1,948.3	557.4	982.4	(s)	1,793.3	R 5,281.4	60.0	9,056.2	4,654.7	13,710.9
2013	—	117.3	117.3	4,173.6	1,901.5	R 610.3	983.8	0.6	2,018.5	R 5,514.6	58.8	R 9,864.4	5,877.9	R 15,742.3
2014	—	118.3	118.3	4,896.9	1,941.8	655.5	688.6	0.5	R 2,007.9	R 5,294.4	60.4	R 10,369.9	6,169.4	R 16,539.3
2015	—	110.4	110.4	4,056.8	1,220.8	R 341.1	767.8	(s)	R 1,847.3	R 4,177.1	54.1	R 8,398.4	6,089.0	R 14,487.4
2016	—	108.4	108.4	4,258.7	987.6	R 327.0	662.1	(s)	R 1,568.6	R 3,545.3	56.9	R 7,969.4	5,747.6	R 13,717.0
2017	—	127.4	127.4	4,330.9	1,213.3	418.6	742.1	(s)	R 1,549.5	R 3,923.6	R 58.6	R 8,440.5	5,834.4	R 14,275.0
2018	—	117.6	117.6	4,391.6	1,319.9	R 453.6	869.7	(s)	R 1,775.1	R 4,418.4	R 54.3	R 8,981.9	R 6,200.9	R 15,182.7
2019	—	105.4	105.4	4,747.4	1,189.1	354.6	897.3	0.8	1,712.5	4,154.2	55.7	9,062.6	6,087.1	15,149.7

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.  
<sup>c</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See Consumption Technical Notes, Section 4.  
<sup>d</sup> Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.  
<sup>e</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>f</sup> 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.  
<sup>g</sup> There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.  
<sup>h</sup> 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: Expenditure 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.  
 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 ET6. Transportation Sector Energy Price and Expenditure Estimates, Selected Years, 1970-2019, California**

Year	Primary Energy										Electricity Retail Sales	Total Energy <sup>e</sup>	
	Coal	Natural Gas	Petroleum							Total <sup>e</sup>			
			Aviation Gasoline	Distillate Fuel Oil <sup>a</sup>	HGL <sup>b</sup>	Jet Fuel <sup>c</sup>	Lubricants	Motor Gasoline <sup>d</sup>	Residual Fuel Oil				
Prices in Dollars per Million Btu													
1970	0.63	—	2.17	1.42	1.35	0.73	5.08	2.80	0.36	2.07	2.07	2.88	2.07
1975	0.92	—	3.45	3.22	2.68	2.04	7.48	4.84	2.12	4.02	4.02	4.34	4.02
1980	—	—	9.02	7.07	4.98	6.21	14.36	10.19	4.14	8.22	8.22	11.39	8.22
1985	—	—	9.99	6.90	10.15	6.01	18.18	8.68	5.02	7.68	7.68	18.29	7.68
1990	—	4.69	9.32	8.21	9.71	5.76	20.61	8.57	3.59	7.47	7.47	9.39	7.47
1995	—	5.47	8.36	8.40	11.62	4.15	21.75	9.27	2.13	7.54	7.54	15.56	7.55
2000	—	6.19	10.87	11.24	14.51	6.91	23.20	12.55	6.24	10.89	10.89	9.47	10.89
2001	—	6.41	11.01	10.43	15.84	5.83	24.51	12.27	5.29	10.51	10.50	11.30	10.50
2002	—	4.27	10.72	9.80	13.43	5.40	26.70	11.19	5.78	9.66	9.66	12.45	9.66
2003	—	5.65	12.42	11.17	15.37	6.55	28.94	13.78	5.90	11.77	11.76	16.99	11.76
2004	—	6.83	15.13	14.17	17.35	9.33	30.11	16.30	6.31	14.20	14.19	18.81	14.19
2005	—	8.60	18.56	17.98	19.89	12.85	35.22	18.96	5.63	16.90	16.88	19.20	16.88
2006	—	7.75	22.31	19.98	21.68	15.04	43.88	21.47	7.29	19.16	19.12	18.45	19.12
2007	—	7.50	23.70	20.94	23.67	16.19	47.16	23.34	8.20	20.60	20.56	24.54	20.56
2008	—	11.02	27.23	26.74	28.47	22.24	55.12	26.96	16.39	25.33	25.28	23.90	25.28
2009	—	7.41	20.32	17.69	21.66	12.50	56.07	20.56	12.57	18.20	18.15	24.47	18.15
2010	—	5.43	25.19	23.06	24.74	16.17	58.80	24.76	15.32	R 22.58	R 22.49	24.24	R 22.50
2011	—	7.18	31.64	29.73	29.39	22.51	69.54	30.51	20.92	R 28.69	R 28.58	23.84	R 28.57
2012	—	6.87	33.04	30.81	21.28	22.88	72.11	32.24	23.28	R 30.15	R 30.02	21.01	R 30.02
2013	—	8.63	32.71	30.07	22.44	21.87	69.42	31.08	22.36	R 29.20	R 29.09	25.02	R 29.09
2014	—	9.16	33.16	29.18	23.33	20.37	69.44	29.99	21.60	R 28.17	R 28.06	26.09	R 28.06
2015	—	7.85	24.86	21.98	14.11	12.21	67.28	25.47	11.63	R 22.20	R 22.11	26.36	R 22.11
2016	—	7.94	21.62	19.36	14.30	9.82	65.78	22.01	8.45	R 18.87	R 18.79	28.73	R 18.80
2017	—	8.33	24.13	22.38	18.80	12.00	67.25	24.37	11.94	R 21.18	R 21.07	25.44	R 21.07
2018	—	8.13	27.04	28.25	20.04	15.67	72.37	28.09	14.93	R 25.14	R 25.00	25.33	R 25.00
2019	—	8.64	25.57	28.61	17.49	14.76	74.92	29.10	14.06	25.43	25.28	26.12	25.28

  

Expenditures in Million Dollars													
1970	0.1	—	23.9	243.7	1.6	242.7	75.7	3,098.8	63.3	3,749.7	3,749.8	0.6	3,750.4
1975	(s)	—	28.5	573.4	4.0	714.6	108.3	6,062.6	267.8	7,759.2	7,759.2	3.9	7,763.2
1980	—	—	13.0	1,720.6	10.0	2,166.4	244.2	13,392.0	1,736.6	19,282.8	19,282.8	7.9	19,290.7
1985	—	—	68.3	2,006.4	47.7	2,257.8	281.3	11,975.2	1,369.0	18,005.8	18,018.4	16.6	18,035.1
1990	—	(s)	52.0	2,657.7	34.4	3,081.3	358.9	13,549.5	1,224.8	20,958.6	20,991.7	10.1	21,001.8
1995	—	4.7	34.1	2,833.7	25.2	2,241.5	361.3	14,978.3	588.6	21,062.6	21,067.2	22.5	21,089.7
2000	—	13.9	39.7	4,612.1	19.0	4,036.2	411.7	22,235.6	1,316.8	32,671.1	32,685.0	19.6	32,704.6
2001	—	17.7	29.8	4,321.3	23.7	3,213.4	398.5	22,150.8	819.0	30,956.5	30,974.2	25.5	30,999.6
2002	—	12.2	32.4	4,127.9	25.8	3,146.2	429.0	21,202.5	1,109.2	30,073.1	30,085.2	25.1	30,110.3
2003	—	19.7	37.7	4,524.2	30.1	3,702.4	429.9	25,951.8	866.1	35,542.3	35,562.0	46.9	35,608.9
2004	—	26.7	42.3	6,409.7	31.9	5,573.8	453.2	31,351.3	1,101.1	44,963.2	44,989.9	57.8	45,047.7
2005	—	82.8	49.7	8,505.0	64.4	7,623.0	527.2	36,982.2	1,201.4	54,952.8	55,035.7	55.4	55,091.1
2006	—	78.3	51.9	9,693.5	72.3	9,072.0	640.0	42,003.5	1,723.2	63,256.3	63,334.6	55.2	63,389.8
2007	—	85.0	53.0	10,351.0	69.1	10,167.5	710.2	45,124.1	2,044.6	68,519.5	68,604.4	71.0	68,675.4
2008	—	132.5	56.0	11,517.9	144.4	12,718.0	770.8	49,584.2	4,144.5	78,935.7	79,068.2	70.7	79,138.9
2009	—	97.4	29.2	7,503.3	84.3	6,942.6	704.9	36,915.3	3,043.2	55,222.9	55,320.3	70.5	55,390.8
2010	—	75.3	44.3	9,901.2	17.9	R 7,127.4	908.9	43,807.9	3,843.8	R 65,651.4	R 65,726.7	67.9	R 65,794.7
2011	—	107.3	60.5	13,016.6	R 20.9	R 9,936.5	1,007.1	52,478.0	3,909.9	R 80,429.4	R 80,536.7	67.2	R 80,604.0
2012	—	102.8	63.1	12,959.5	18.9	R 10,156.5	953.0	54,797.5	3,889.0	R 82,837.5	R 82,940.3	49.1	R 82,989.4
2013	—	125.0	56.5	13,148.0	R 20.5	R 9,903.2	958.5	53,463.2	2,775.9	R 80,325.7	R 80,450.7	71.3	R 80,522.1
2014	—	144.4	78.6	13,412.3	17.8	R 9,520.1	R 981.4	51,991.3	1,825.7	R 77,827.3	R 77,971.7	74.0	R 78,045.7
2015	—	148.3	62.6	10,192.1	R 11.2	R 6,129.8	1,049.0	44,063.9	1,353.4	R 62,862.1	R 63,010.4	75.3	R 63,085.8
2016	—	157.0	49.1	8,941.8	R 12.1	R 5,372.0	R 971.7	38,803.9	1,228.6	R 55,379.1	R 55,536.0	76.6	R 55,612.7
2017	—	R 216.3	49.5	10,671.2	11.4	R 6,988.6	923.8	43,178.9	1,968.3	R 63,791.8	R 64,008.1	72.5	R 64,080.6
2018	—	R 210.4	60.3	13,669.2	R 11.7	R 9,283.0	R 958.3	49,569.6	2,520.3	R 76,072.4	R 76,282.8	64.8	R 76,347.6
2019	—	238.9	64.2	13,694.9	9.2	8,885.2	956.7	50,530.0	2,591.2	76,731.4	76,970.3	68.4	77,038.7

<sup>a</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil.  
<sup>b</sup> Hydrocarbon gas liquids, assumed to be propane only.  
<sup>c</sup> 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."  
<sup>d</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.  
<sup>e</sup> 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.  
Note: 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.

**Table ET7. Electric Power Sector Price and Expenditure Estimates, Selected Years, 1970-2019, California**

Year	Coal	Natural Gas <sup>a</sup>	Petroleum				Nuclear Fuel	Biomass	Electricity Imports <sup>c</sup>	Total Energy <sup>d</sup>
			Distillate Fuel Oil	Petroleum Coke	Residual Fuel Oil	Total		Wood and Waste <sup>b</sup>		
Prices in Dollars per Million Btu										
1970	—	0.33	0.36	—	0.40	0.40	0.19	0.65	—	0.34
1975	—	1.05	2.43	—	2.50	2.50	0.21	0.92	—	1.82
1980	—	3.53	5.84	—	5.03	5.06	0.49	1.74	6.94	3.99
1985	—	4.47	5.69	—	5.31	5.33	0.96	0.79	9.34	3.80
1990	1.49	3.03	4.57	0.80	4.36	4.02	0.72	—	8.37	2.25
1995	1.36	2.22	4.62	0.69	2.16	1.13	0.43	2.59	6.21	1.69
2000	1.36	5.81	6.19	0.43	6.16	1.72	0.45	1.48	16.78	4.21
2001	1.11	9.28	6.32	0.53	5.95	2.61	0.43	1.74	20.47	6.72
2002	1.87	3.74	5.72	0.54	5.92	0.91	0.49	2.27	8.94	2.64
2003	1.77	5.37	6.16	0.50	5.92	0.87	0.46	2.76	13.21	3.67
2004	1.94	5.88	9.25	0.50	—	1.06	0.47	3.20	13.84	4.21
2005	1.43	7.85	9.91	0.50	5.59	1.07	0.44	3.77	16.53	5.22
2006	1.68	6.50	13.84	0.90	7.10	1.63	0.45	4.17	17.32	4.67
2007	1.85	6.52	16.19	1.41	7.85	2.12	0.47	7.78	18.25	4.95
2008	2.19	8.00	22.58	1.56	16.68	2.75	0.48	2.66	18.28	5.79
2009	2.24	4.32	14.38	1.56	12.41	2.08	0.54	3.25	12.10	3.28
2010	2.22	4.86	18.44	2.19	16.95	2.80	0.58	3.50	13.31	3.60
2011	2.21	4.61	23.74	2.88	25.21	3.59	0.67	3.60	11.53	3.29
2012	1.89	3.59	26.89	2.13	—	5.75	0.73	2.89	9.51	3.22
2013	1.96	4.40	23.23	2.11	—	14.10	0.71	2.26	11.49	3.89
2014	2.49	5.05	19.63	1.94	—	12.71	0.65	2.73	13.31	4.51
2015	—	3.29	11.19	—	12.76	11.21	0.65	2.62	10.54	3.10
2016	—	3.06	11.43	—	—	11.43	0.65	2.54	8.74	R 2.88
2017	—	3.64	13.87	—	—	13.87	0.67	2.40	9.18	3.25
2018	—	4.49	17.24	—	—	17.24	0.68	2.22	10.74	3.68
2019	—	3.74	14.80	—	—	14.80	0.67	2.33	9.20	3.17
Expenditures in Million Dollars										
1970	—	220.1	0.2	—	54.7	54.9	6.7	0.3	—	282.1
1975	—	305.2	3.4	—	1,230.5	1,234.0	14.4	0.2	—	1,553.7
1980	—	1,925.0	86.2	—	1,980.8	2,067.0	26.1	0.4	2.4	4,020.8
1985	—	3,130.1	10.2	—	154.2	164.4	200.4	(s)	133.8	3,628.8
1990	28.1	1,966.9	7.0	3.9	196.4	207.4	249.6	—	146.9	2,599.0
1995	31.8	1,378.2	2.9	10.9	10.0	23.7	135.1	162.0	41.7	1,772.5
2000	30.1	5,295.7	32.4	8.6	3.3	44.4	164.9	103.0	315.4	5,953.3
2001	23.4	9,276.8	50.4	10.3	18.4	79.1	150.3	105.8	238.9	9,874.4
2002	42.8	2,775.7	7.5	10.9	1.5	19.8	175.5	184.1	63.1	3,261.0
2003	38.5	3,879.4	9.1	10.9	0.4	20.5	172.1	200.5	187.0	4,497.9
2004	43.7	4,661.6	12.5	9.9	—	22.5	148.8	230.1	61.0	5,167.7
2005	29.6	5,568.5	13.9	11.0	0.1	25.1	167.2	275.4	317.6	6,383.3
2006	36.8	5,172.3	16.2	18.3	0.7	35.2	148.5	312.6	173.5	5,878.9
2007	43.2	5,606.4	15.8	28.7	0.9	45.3	176.8	555.7	360.9	6,788.4
2008	51.7	7,060.2	22.8	27.3	0.9	51.1	161.8	198.7	334.9	7,858.4
2009	47.2	3,591.6	9.6	26.2	0.7	36.5	179.7	251.5	125.8	4,232.4
2010	48.3	3,673.1	8.0	27.0	0.9	36.0	196.7	276.5	157.7	4,388.3
2011	43.5	2,904.0	8.7	30.4	0.2	39.3	256.0	248.2	246.6	3,737.7
2012	24.9	3,147.7	9.5	4.4	—	13.9	140.9	217.2	288.1	3,832.6
2013	12.1	3,740.5	8.3	0.6	—	8.9	133.1	167.7	431.5	4,493.8
2014	17.1	4,340.5	7.4	0.5	—	7.9	115.2	213.8	561.7	5,256.3
2015	—	2,740.2	4.3	—	(s)	4.4	126.7	198.4	495.7	3,565.3
2016	—	2,104.6	4.3	—	—	4.3	127.9	167.1	R 505.8	R 2,909.7
2017	—	2,259.7	5.4	—	—	5.4	124.9	155.7	460.7	3,006.5
2018	—	R 2,852.1	6.5	—	—	6.5	129.1	145.6	232.0	R 3,365.4
2019	—	2,199.5	5.8	—	—	5.8	113.6	155.8	209.5	2,684.2

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>c</sup> Electricity imported from Canada and Mexico.  
<sup>d</sup> There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.  
 Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.  
 Notes: Expenditure 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.  
 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.