

HAWAII
Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2019, Hawaii
 (Trillion Btu)

Year	Fossil Fuels										Fossil Fuels (as commingled)			
	Coal	Natural Gas excluding Supplemental Gaseous Fuels ^a	Petroleum							Total	Total	Natural Gas including Supplemental Gaseous Fuels ^a	Distillate Fuel Oil including Biodiesel ^a	Motor Gasoline including Fuel Ethanol ^a
			Distillate Fuel Oil excluding Biodiesel ^a	HGL ^b	Jet Fuel ^c	Motor Gasoline excluding Fuel Ethanol ^a	Residual Fuel Oil	Other ^d	Total					
1960	0.0	0.0	5.2	0.4	23.5	18.0	30.0	17.5	94.5	94.5	0.0	5.2	18.0	
1965	0.0	0.0	9.4	0.8	42.3	21.4	45.5	9.9	129.3	129.3	0.0	9.4	21.4	
1970	0.0	0.0	9.9	3.5	80.1	29.9	63.8	8.2	195.4	195.4	0.0	9.9	29.9	
1971	0.0	0.0	10.0	3.6	91.5	30.8	67.3	7.1	210.4	210.4	0.0	10.0	30.8	
1972	0.0	0.0	10.3	3.5	91.3	32.6	71.3	7.6	216.6	216.6	0.0	10.3	32.6	
1973	0.0	0.0	10.7	3.5	92.9	34.7	72.8	8.2	222.8	222.8	0.0	10.7	34.7	
1974	0.0	0.0	11.4	3.6	83.6	34.4	69.9	7.6	210.6	210.6	0.0	11.4	34.4	
1975	0.0	0.0	11.3	3.2	83.5	35.5	70.8	8.6	212.9	212.9	0.0	11.3	35.5	
1976	0.0	0.0	13.6	3.8	79.8	36.9	74.6	9.5	218.4	218.4	0.0	13.6	36.9	
1977	0.0	0.0	16.7	3.3	83.6	38.9	79.8	9.7	232.0	232.0	0.0	16.7	38.9	
1978	0.0	0.0	20.8	2.7	83.6	40.1	78.9	9.7	235.8	235.8	0.0	20.8	40.1	
1979	0.0	0.0	38.3	5.9	85.9	39.4	76.5	9.4	255.3	255.3	0.0	38.3	39.4	
1980	0.0	0.0	34.9	5.7	79.2	38.0	83.0	8.8	249.5	249.5	3.0	34.9	38.0	
1981	0.0	0.0	35.1	4.8	56.2	37.7	82.7	6.6	223.1	223.1	2.8	35.1	37.7	
1982	1.1	0.0	26.5	7.4	41.6	38.1	83.6	6.3	203.6	204.7	2.8	26.5	38.1	
1983	1.0	0.0	13.6	7.4	62.5	38.0	76.4	7.3	205.2	206.2	2.7	13.6	38.0	
1984	0.9	0.0	15.9	0.5	72.6	39.5	80.4	7.1	216.1	217.1	2.4	15.9	39.5	
1985	1.1	0.0	26.4	0.5	74.4	39.9	82.9	8.0	232.1	233.2	2.7	26.4	39.9	
1986	0.4	0.0	27.0	0.5	57.0	41.4	90.1	11.8	227.6	228.0	2.7	27.0	41.4	
1987	1.6	0.2	21.5	0.6	64.4	43.0	85.5	14.0	228.9	230.6	2.8	21.5	43.0	
1988	1.2	0.0	32.8	0.7	67.2	44.5	106.5	16.4	268.0	269.3	2.8	32.8	44.5	
1989	0.8	0.0	33.5	0.7	74.4	46.0	109.1	16.4	280.1	280.9	2.9	33.5	46.0	
1990	0.7	0.0	37.8	0.7	71.1	45.5	119.9	17.8	292.8	293.5	3.0	37.8	45.5	
1991	1.1	0.0	42.0	0.8	62.6	47.1	98.1	16.0	266.6	267.6	2.9	42.0	47.1	
1992	6.8	0.0	36.2	2.5	56.5	46.6	112.3	18.5	272.5	279.2	2.9	36.2	46.6	
1993	15.6	0.0	34.5	3.1	50.4	47.3	87.0	16.9	239.2	254.8	2.8	34.5	47.3	
1994	15.7	0.0	36.8	5.7	53.7	48.7	95.1	17.9	257.9	273.6	2.9	36.8	48.7	
1995	19.9	0.0	33.7	4.6	56.4	49.0	91.0	17.6	252.3	272.2	2.9	33.7	49.0	
1996	20.4	0.0	28.8	4.6	57.2	48.8	79.6	19.5	238.6	259.0	2.8	28.8	48.8	
1997	20.5	0.0	27.0	0.9	58.0	48.7	76.8	19.1	230.5	251.0	2.7	27.0	48.7	
1998	18.2	0.0	25.9	3.2	56.7	48.6	83.3	15.9	233.5	251.7	2.8	25.9	48.6	
1999	17.7	0.0	30.9	1.4	53.7	46.6	81.4	15.9	229.9	247.6	2.9	30.9	46.6	
2000	17.7	0.1	29.6	2.1	53.5	48.3	85.0	16.6	235.2	252.9	3.0	29.6	48.3	
2001	17.8	0.1	35.1	2.2	50.4	50.5	83.5	18.0	239.8	257.7	2.9	35.1	50.5	
2002	16.6	0.1	47.1	2.9	57.8	54.2	80.1	15.5	257.4	274.2	2.9	47.1	54.2	
2003	18.0	0.1	47.7	1.9	72.1	55.1	75.9	16.7	269.4	287.6	2.9	47.7	55.1	
2004	17.9	0.2	50.2	1.7	75.9	55.8	82.4	16.8	282.9	300.9	2.9	50.2	55.8	
2005	16.5	0.2	42.5	1.7	92.8	55.8	83.0	18.0	293.8	310.5	2.9	42.5	57.0	
2006	16.1	0.2	38.8	1.8	86.9	58.4	92.3	17.1	295.5	311.8	2.9	38.8	59.8	
2007	17.1	0.2	53.8	1.6	72.3	56.6	102.6	16.7	303.5	320.8	3.0	53.8	58.3	
2008	18.1	0.1	31.8	2.6	60.7	51.3	78.1	14.6	239.1	257.3	2.8	31.8	54.5	
2009	17.1	0.2	34.8	3.1	52.7	51.5	77.9	19.0	238.9	256.2	2.7	35.0	55.1	
2010	17.1	0.2	39.4	3.2	R 73.2	47.8	74.7	20.7	R 259.1	R 276.3	2.7	39.6	50.6	
2011	16.1	0.2	35.9	3.5	R 76.1	53.2	73.6	20.7	R 263.0	R 279.2	2.7	36.4	56.4	
2012	16.6	0.2	34.8	3.4	R 80.3	50.7	67.4	19.3	R 255.9	R 272.6	2.8	35.2	53.6	
2013	15.3	0.2	32.4	3.2	R 85.5	51.3	65.2	20.6	R 258.3	R 273.8	2.9	33.0	54.4	
2014	17.2	0.2	24.5	3.4	R 85.6	51.5	62.1	19.2	R 246.3	R 263.7	2.8	25.1	54.8	
2015	15.6	0.2	26.4	2.9	R 89.6	51.9	61.3	19.1	R 251.1	R 267.0	2.9	27.3	55.9	
2016	16.4	0.2	24.9	3.1	R 91.0	52.7	60.9	18.4	R 251.0	R 267.6	3.0	26.1	56.7	
2017	14.9	0.2	25.9	3.8	R 97.2	52.4	63.2	R 18.5	R 261.0	R 276.1	3.0	27.4	56.4	
2018	14.4	0.2	28.9	3.7	R 98.3	51.4	62.0	15.7	R 260.1	R 274.6	3.2	30.3	55.4	
2019	14.2	0.2	28.3	3.7	100.5	51.7	63.5	15.6	263.2	277.6	3.1	29.3	55.7	

^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, 1960-2019, Hawaii (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	0.0	0.3	0.0	NA	NA	NA	0.0	0.0	NA	NA	0.3	0.0	0.0	94.8
1965	0.0	1.1	0.2	NA	NA	NA	0.2	0.0	NA	NA	1.3	0.0	0.0	130.6
1970	0.0	1.1	0.4	NA	NA	NA	0.4	0.0	NA	NA	1.6	0.0	0.0	196.9
1971	0.0	0.9	0.3	NA	NA	NA	0.3	0.0	NA	NA	1.3	0.0	0.0	211.7
1972	0.0	0.9	0.6	NA	NA	NA	0.6	0.0	NA	NA	1.5	0.0	0.0	218.1
1973	0.0	1.0	0.5	NA	NA	NA	0.5	0.0	NA	NA	1.5	0.0	0.0	224.3
1974	0.0	1.0	0.6	NA	NA	NA	0.6	0.0	NA	NA	1.5	0.0	0.0	212.1
1975	0.0	0.9	0.6	NA	NA	NA	0.6	0.0	NA	NA	1.5	0.0	0.0	214.4
1976	0.0	1.0	0.7	NA	NA	NA	0.7	0.0	NA	NA	1.7	0.0	0.0	220.0
1977	0.0	0.9	0.5	NA	NA	NA	0.5	0.0	NA	NA	1.4	0.0	0.0	233.3
1978	0.0	0.9	0.3	NA	NA	NA	0.3	0.0	NA	NA	1.1	0.0	0.0	237.0
1979	0.0	0.9	0.3	NA	NA	NA	0.3	0.0	NA	NA	1.3	0.0	0.0	256.6
1980	0.0	0.9	11.9	NA	NA	NA	11.9	0.0	NA	NA	12.8	0.0	0.0	262.3
1981	0.0	0.8	12.7	(s)	NA	0.0	12.7	0.0	NA	NA	13.6	0.0	0.0	236.7
1982	0.0	0.9	12.4	(s)	NA	0.0	12.4	0.0	NA	NA	13.4	0.0	0.0	218.1
1983	0.0	0.9	14.0	0.0	NA	0.0	14.0	0.0	NA	0.0	14.9	0.0	0.0	221.1
1984	0.0	0.9	14.3	0.0	NA	0.0	14.3	0.2	0.0	0.0	15.4	0.0	0.0	232.4
1985	0.0	0.9	14.2	0.0	NA	0.0	14.2	0.2	0.0	0.0	15.3	0.0	0.0	248.6
1986	0.0	0.8	16.3	0.0	NA	0.0	16.3	0.2	0.0	0.0	17.3	0.0	0.0	245.3
1987	0.0	0.9	17.8	0.0	NA	0.0	17.8	0.1	0.0	0.0	18.8	0.0	0.0	249.5
1988	0.0	0.8	19.4	0.0	NA	0.0	19.4	0.2	0.0	0.0	20.4	0.0	0.0	289.7
1989	0.0	0.6	27.0	0.0	NA	0.0	27.0	0.1	0.8	0.3	28.9	0.0	0.0	309.8
1990	0.0	0.8	25.9	0.0	NA	0.0	25.9	(s)	0.9	0.3	27.9	0.0	0.0	321.4
1991	0.0	0.7	25.4	0.0	NA	0.0	25.4	(s)	1.0	0.4	27.5	0.0	0.0	295.2
1992	0.0	0.6	24.9	0.0	NA	0.0	24.9	(s)	1.0	0.2	26.8	0.0	0.0	306.0
1993	0.0	0.6	24.4	0.0	NA	0.0	24.4	1.6	1.1	0.2	27.8	0.0	0.0	282.7
1994	0.0	1.4	20.7	0.0	NA	0.0	20.7	1.9	1.1	0.2	25.4	0.0	0.0	299.0
1995	0.0	1.0	19.8	0.0	NA	0.0	19.8	2.4	1.2	0.2	24.6	0.0	0.0	296.8
1996	0.0	1.1	19.1	0.0	NA	0.0	19.1	2.5	1.2	0.2	24.1	0.0	0.0	283.1
1997	0.0	1.2	17.4	0.0	NA	0.0	17.4	2.5	1.2	0.2	22.5	0.0	0.0	273.5
1998	0.0	1.2	16.5	0.0	NA	0.0	16.5	2.4	1.3	0.2	21.7	0.0	0.0	273.4
1999	0.0	1.2	17.0	0.0	NA	0.0	17.0	2.2	1.3	0.2	21.8	0.0	0.0	269.4
2000	0.0	1.1	15.2	0.0	NA	0.0	15.2	2.7	1.3	0.2	20.4	0.0	0.0	273.3
2001	0.0	1.0	7.9	0.0	(s)	0.0	8.0	2.1	1.2	(s)	12.4	0.0	0.0	270.1
2002	0.0	1.0	7.5	0.0	(s)	0.0	7.5	0.7	1.2	(s)	10.5	0.0	0.0	284.7
2003	0.0	0.9	9.3	0.0	(s)	0.0	9.3	1.8	1.3	(s)	13.3	0.0	0.0	300.9
2004	0.0	0.9	9.3	0.0	(s)	0.0	9.4	2.1	1.3	0.1	13.8	0.0	0.0	314.7
2005	0.0	1.0	8.4	1.2	0.1	0.0	9.6	2.2	1.3	0.1	14.2	0.0	0.0	324.7
2006	0.0	1.2	8.5	1.4	0.2	0.0	10.1	2.1	1.4	0.8	15.5	0.0	0.0	327.3
2007	0.0	0.9	8.0	1.7	0.2	0.0	9.9	2.3	1.5	2.4	17.0	0.0	0.0	337.8
2008	0.0	0.8	8.6	3.2	0.2	0.0	12.0	2.3	1.8	2.4	19.3	0.0	0.0	276.6
2009	0.0	1.1	8.6	3.7	0.2	0.0	12.5	1.6	2.0	2.5	19.7	0.0	0.0	275.9
2010	0.0	0.7	7.7	2.8	0.2	0.0	10.7	2.0	2.3	2.5	18.2	0.0	0.0	R 294.5
2011	0.0	0.9	7.4	3.2	0.6	0.0	11.2	2.2	2.9	3.3	20.5	0.0	0.0	R 299.7
2012	0.0	1.1	6.7	2.9	0.4	0.0	10.0	2.5	4.3	3.6	21.5	0.0	0.0	R 294.2
2013	0.0	0.7	8.2	3.0	0.5	(s)	11.7	2.6	6.1	4.8	26.0	0.0	0.0	R 299.7
2014	0.0	0.9	7.7	3.3	0.6	(s)	11.6	2.4	7.6	5.5	28.0	0.0	0.0	R 291.7
2015	0.0	1.1	7.2	4.0	0.9	(s)	12.1	2.2	8.4	5.7	29.4	0.0	0.0	R 296.4
2016	0.0	0.8	8.2	4.0	1.2	(s)	13.4	2.4	9.8	5.9	32.4	0.0	0.0	R 299.9
2017	0.0	0.6	5.4	4.0	1.5	(s)	10.9	3.0	12.6	4.9	32.0	0.0	0.0	R 308.1
2018	0.0	0.9	R 5.4	3.9	1.4	(s)	10.7	1.0	13.1	5.5	31.1	0.0	0.0	R 305.8
2019	0.0	0.8	4.9	4.0	1.0	(s)	10.0	(s)	14.3	4.7	29.9	0.0	0.0	307.5

^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 kilowatt-hours by 3,412 Btu per kilowatt-hour.

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.