

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

Year	Coal	Natural gas ^a	Petroleum							Hydro-electric power ^{g,h}	Biomass		Geo-thermal ^h	Solar ^{h,k}	Electricity ⁱ	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						
			Thousand short tons	Billion cubic feet	Thousand barrels							Million kilowatt-hours						
1960	0	0	849	112	4,321	3,429	2,047	3,331	14,088	0	--	--	--	--	1,285	--	--	--
1970	0	0	1,599	938	14,273	5,691	3,452	1,354	27,307	86	--	--	--	--	3,776	--	--	--
1980	0	3	5,099	1,573	14,116	7,231	2,957	1,459	32,436	67	--	--	--	--	6,331	--	--	--
1990	28	3	4,675	178	12,646	8,670	5,222	2,965	34,357	57	--	--	--	--	8,311	--	--	--
2000	110	3	2,319	562	9,438	9,289	2,672	2,688	26,968	60	--	--	--	--	9,691	--	--	--
2005	59	3	4,723	432	16,372	10,978	1,905	2,968	37,379	34	--	--	--	--	10,539	--	--	--
2006	59	3	4,238	471	15,334	11,533	3,188	2,848	37,611	38	--	--	--	--	10,568	--	--	--
2007	72	3	6,981	419	12,756	11,348	4,893	2,770	39,167	38	--	--	--	--	10,585	--	--	--
2008	99	3	3,301	674	10,702	10,675	1,412	2,423	29,188	39	--	--	--	--	10,390	--	--	--
2009	88	3	3,802	819	9,303	10,834	1,680	3,080	29,518	35	--	--	--	--	10,126	--	--	--
2010	61	3	4,610	826	13,435	9,993	1,525	3,358	33,746	42	--	--	--	--	10,017	--	--	--
2011	58	3	4,050	900	13,932	11,145	1,456	3,365	34,848	49	--	--	--	--	9,962	--	--	--
2012	50	3	3,916	884	14,717	10,586	1,233	3,160	34,496	59	--	--	--	--	9,639	--	--	--
2013	61	3	3,640	824	15,455	10,746	1,163	3,349	35,175	44	--	--	--	--	9,503	--	--	--
2014	61	3	2,307	881	15,732	10,831	1,105	3,108	33,963	52	--	--	--	--	9,475	--	--	--
2015	50	3	2,596	747	16,270	11,053	997	3,092	34,755	59	--	--	--	--	9,511	--	--	--
2016	12	3	2,499	799	16,135	11,220	1,218	R 2,908	R 34,779	38	--	--	--	--	9,445	--	--	--
2017	0	3	2,664	995	17,195	11,162	1,662	R 2,939	R 36,617	37	--	--	--	--	9,324	--	--	--
2018	0	3	3,108	965	17,446	10,956	1,470	R 2,494	R 36,438	34	--	--	--	--	9,337	--	--	--
2019	0	3	2,779	959	17,822	11,022	1,716	R 2,497	R 36,794	59	--	--	--	--	9,453	--	--	--
2020	0	2	2,683	876	9,051	8,605	763	R 1,879	R 23,857	70	--	--	--	--	8,797	--	--	--
2021	0	3	R 2,542	1,088	13,474	9,757	1,656	R 1,806	R 30,323	72	--	--	--	--	8,936	--	--	--
2022	0	3	2,687	1,023	15,564	9,838	1,697	1,768	32,578	61	--	--	--	--	9,039	--	--	--
Trillion Btu																		
1960	0.0	0.0	4.9	0.4	23.5	18.0	12.9	17.5	77.2	0.0	0.0	NA	NA	NA	4.4	81.6	R 13.0	R 94.6
1970	0.0	0.0	9.3	3.5	80.1	29.9	21.7	8.2	152.7	R 0.3	0.2	NA	NA	NA	12.9	R 166.0	R 30.1	R 196.2
1980	0.0	3.0	29.7	5.7	79.2	38.0	18.6	8.8	180.0	R 0.2	11.9	NA	NA	NA	21.6	R 213.7	R 48.0	R 261.7
1990	0.7	3.0	27.2	0.7	71.1	45.5	32.8	17.8	195.2	R 0.2	18.2	0.0	(s)	0.9	28.4	R 243.4	R 77.2	R 320.7
2000	2.1	3.0	13.5	2.1	53.5	48.3	16.8	16.6	150.8	R 0.2	9.9	0.0	(s)	1.3	33.1	R 197.5	R 73.2	R 270.7
2005	1.4	2.9	27.5	1.7	92.8	57.0	12.0	18.0	208.9	R 0.1	8.4	0.0	(s)	1.3	36.0	R 256.4	R 66.2	R 322.6
2006	1.6	2.9	24.6	1.8	86.9	59.8	20.0	17.1	210.3	R 0.1	8.5	0.0	(s)	1.4	36.1	R 258.4	R 66.2	R 324.6
2007	1.8	3.0	40.4	1.6	72.3	58.3	30.8	16.7	220.1	R 0.1	8.0	0.0	(s)	1.5	36.1	R 267.9	R 66.2	R 334.1
2008	2.3	2.8	19.1	2.6	60.7	54.5	8.9	14.6	160.4	R 0.1	8.6	0.0	(s)	R 1.7	35.5	R 208.9	R 64.0	R 272.9
2009	2.0	2.7	22.0	3.1	52.7	55.1	10.6	19.0	162.5	R 0.1	8.5	0.0	(s)	R 1.8	34.6	R 209.8	R 62.5	R 272.3
2010	1.4	2.7	26.6	3.2	76.2	50.6	9.6	20.7	186.9	R 0.1	7.7	0.0	(s)	R 1.9	34.2	R 232.4	R 61.4	R 293.8
2011	1.3	2.7	23.4	3.5	79.0	56.4	9.2	20.7	192.1	R 0.2	6.8	0.0	(s)	R 2.1	34.0	R 236.6	R 61.0	R 297.6
2012	1.1	2.8	22.6	3.4	83.4	53.6	7.8	19.3	190.0	R 0.2	6.3	0.0	(s)	R 2.7	32.9	R 233.4	R 57.6	R 291.1
2013	1.4	2.9	21.0	3.2	87.6	54.4	7.3	20.6	194.1	R 0.2	7.6	(s)	(s)	R 3.3	32.4	R 239.2	R 54.8	R 294.0
2014	1.4	2.8	13.3	3.4	89.2	54.8	6.9	19.2	186.8	R 0.2	7.1	(s)	(s)	R 3.8	32.3	R 231.8	R 54.2	R 286.0
2015	1.1	2.9	15.0	2.9	92.2	55.9	6.3	19.1	191.3	R 0.2	6.4	(s)	(s)	R 4.1	32.5	R 235.8	R 53.5	R 289.2
2016	0.3	3.0	14.4	3.1	91.5	56.7	7.7	18.4	191.7	R 0.1	7.1	(s)	(s)	R 4.6	32.2	R 236.2	R 53.5	R 289.7
2017	0.0	3.0	15.3	3.8	97.5	56.4	10.4	R 18.5	R 202.0	R 0.1	3.7	(s)	(s)	R 5.3	31.8	R 243.1	R 53.3	R 296.5
2018	0.0	3.2	17.9	3.7	98.9	55.4	9.2	15.7	R 200.9	R 0.1	3.9	(s)	(s)	R 5.5	31.9	R 242.5	R 52.4	R 294.9
2019	0.0	3.1	16.0	3.7	101.0	55.7	10.8	15.6	R 202.9	R 0.2	3.6	(s)	(s)	R 5.8	32.3	R 245.0	R 52.1	R 297.1
2020	0.0	2.3	15.4	3.4	51.3	43.5	4.8	R 11.8	R 130.2	R 0.2	3.4	(s)	(s)	R 6.2	30.0	R 170.2	R 49.6	R 219.7
2021	0.0	2.6	R 14.6	4.2	76.4	49.3	10.4	11.3	R 166.3	R 0.2	3.3	(s)	(s)	R 6.3	30.5	R 206.7	R 49.2	R 255.9
2022	0.0	2.7	15.5	3.9	88.3	49.7	10.7	11.1	179.1	0.2	3.3	(s)	(s)	6.6	30.8	220.2	50.0	270.3

^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/>