

Table 83. Energy Consumption Estimates by Source, Selected Years 1960-1999, Hawaii

Year	Coal ^a	Natural Gas ^b	Petroleum										Nuclear Electric Power	Hydro-electric Power ^d	Wood and Waste	Net Interstate Flow of Electricity/Losses ^f	Total ^g
			Asphalt & Road Oil ^a	Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	Kero-sene ^a	LPG ^a	Lubri-cants ^a	Motor Gasoline	Residual Fuel ^a	Other ^{a,c}					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels										Million kWh	Other ^{a,e}	Million kWh		
1960	0	0	29	2,640	886	4,321	91	112	38	3,429	4,766	R 533	R 16,844	0	27	—	0
1965	0	0	306	613	1,612	7,618	49	219	94	4,082	7,230	R 655	R 22,478	0	105	—	0
1970	0	0	377	133	1,695	14,273	153	938	71	5,691	10,154	R 619	R 34,105	0	108	—	0
1975	0	0	379	116	1,948	14,849	76	872	104	6,766	11,255	R 734	R 37,097	0	89	—	0
1980	0	3	285	199	5,987	14,116	9	1,573	94	7,231	13,196	R 872	R 43,562	0	86	—	0
1985	46	2	308	155	4,611	13,260	2	133	86	7,594	13,185	R 757	R 40,091	0	86	—	0
1990	28	3	381	272	6,822	12,646	(s)	178	96	8,670	17,433	R 2,215	R 48,714	0	R h 79	—	0
1991	37	3	383	261	7,239	11,123	(s)	214	86	8,970	15,418	R 1,910	R 45,606	0	R 71	—	0
1992	47	3	431	243	5,588	9,993	(s)	651	88	8,870	16,271	R 2,304	R 44,439	0	R 61	—	0
1993	73	3	444	198	4,837	8,891	1	884	90	9,060	12,361	R 2,050	R 38,814	0	R 56	—	0
1994	86	3	407	210	5,063	9,472	1	1,619	94	9,343	12,931	R 2,256	R 41,396	0	R 141	—	0
1995	192	3	438	218	5,017	9,940	1	R 1,316	92	9,416	12,348	R 2,161	R 40,947	0	R 98	—	0
1996	169	3	401	165	4,418	10,087	1	R 1,319	89	9,374	10,379	R 2,577	R 38,811	0	R 105	—	0
1997	145	3	396	121	4,287	10,217	1	R 241	94	9,358	9,879	R 2,540	R 37,134	0	R 115	—	0
1998	167	3	322	107	4,343	9,990	(s)	844	99	9,342	11,026	2,085	38,159	0	121	—	0
1999	133	3	353	58	4,507	9,474	(s)	376	100	8,953	11,120	2,091	37,031	0	118	—	0
Trillion Btu																	
1960	0.0	0.0	0.2	13.3	5.2	23.5	0.5	0.4	0.2	18.0	30.0	R 3.2	R 94.6	0.0	0.3	0.0	0.0
1965	0.0	0.0	2.0	3.1	9.4	42.3	0.3	0.9	0.6	21.4	45.5	R 3.9	R 129.3	0.0	1.1	0.2	0.0
1970	0.0	0.0	2.5	0.7	9.9	80.1	0.9	3.5	0.4	29.9	63.8	R 3.7	R 195.4	0.0	1.1	0.4	0.0
1975	0.0	0.0	2.5	0.6	11.3	83.5	0.4	3.2	0.6	35.5	70.8	R 4.4	R 212.9	0.0	0.9	0.6	0.0
1980	0.0	3.0	1.9	1.0	34.9	79.2	0.1	5.8	0.6	38.0	83.0	R 5.2	R 249.6	0.0	0.9	11.9	0.0
1985	1.1	2.7	2.0	0.8	26.9	74.4	(s)	0.5	0.5	39.9	82.9	R 4.7	R 232.6	0.0	0.9	14.2	0.0
1990	0.7	3.0	2.5	1.4	39.7	71.1	(s)	0.6	0.6	45.5	109.6	R 13.3	R 284.4	0.0	R h 0.8	R 6.6	R 296.8
1991	0.9	2.9	2.5	1.3	42.2	62.6	(s)	0.8	0.5	47.1	96.9	R 11.6	R 265.6	0.0	R 0.7	R 6.7	R 278.3
1992	1.2	2.9	2.9	1.2	32.6	56.5	(s)	2.4	0.5	46.6	102.3	R 13.8	R 258.8	0.0	0.6	R 7.0	R 271.7
1993	1.8	2.8	2.9	1.0	28.2	50.4	(s)	3.2	0.5	47.6	77.7	R 12.4	R 224.0	0.0	0.6	R 6.8	R 240.4
1994	1.8	2.9	2.7	1.1	29.5	53.7	(s)	5.9	0.6	R 48.9	81.3	R 13.6	237.2	0.0	1.5	R 6.9	R 255.7
1995	4.1	2.9	2.9	1.1	29.2	56.4	(s)	4.8	0.6	R 49.1	77.6	R 13.1	R 234.7	0.0	1.0	R 8.0	R 257.0
1996	3.6	2.8	2.7	0.8	25.7	57.2	(s)	R 4.8	0.5	R 48.9	65.3	R 15.5	221.4	0.0	1.1	R 16.0	R 251.4
1997	3.3	2.7	2.6	0.6	25.0	57.9	(s)	R 0.9	0.6	R 48.8	62.1	R 15.3	R 213.7	0.0	1.2	R 14.8	R 241.8
1998	3.8	2.8	2.1	0.5	25.3	56.6	(s)	3.1	0.6	48.7	69.3	12.6	218.9	0.0	1.3	13.3	246.6
1999	3.1	2.9	2.3	0.3	26.3	53.7	(s)	1.4	0.6	46.7	69.9	12.6	213.7	0.0	1.2	14.6	241.4

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

^d If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of imports of electricity that is derived from hydroelectric power.

^e "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

^f Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. A positive number

indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.

^g From 1989, "Total" does not equal the sum of the columns. Net imports of electricity generated from nonrenewable energy sources (shown in appendix Table A8) is included in the total but not in any other columns.

^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.

kWh=kilowatthours. R=Revised data. —=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 84. Residential Energy Consumption Estimates, Selected Years 1960-1999, Hawaii

Year	Coal ^a	Natural Gas ^b	Petroleum				Wood	Geothermal	Solar ^c	Electricity ^a	Net Energy	Electrical System Energy Losses ^d	Total
			Distillate Fuel ^a	Kerosene ^a	LPG ^a	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels				Thousand Cords					Million Kilowatthours	
1960	0	0	(s)	0	57	58	0	—	—	514	—	1,550	—
1965	0	0	1	0	113	114	0	—	—	861	—	1,976	—
1970	0	0	1	0	447	449	0	—	—	1,285	—	3,021	—
1975	0	0	1	0	320	321	0	—	—	1,663	—	3,732	—
1980	0	1	1	0	430	431	0	—	—	1,841	—	4,103	—
1985	0	1	(s)	0	101	101	0	—	—	1,879	—	3,928	—
1990	0	1	(s)	0	127	128	0	—	—	2,324	—	4,734	—
1991	0	1	(s)	(s)	131	131	0	—	—	2,396	—	4,132	—
1992	0	1	(s)	(s)	413	413	0	—	—	2,438	—	3,711	—
1993	0	1	1	(s)	88	89	0	—	—	2,469	—	3,061	—
1994	0	1	1	(s)	90	91	0	—	—	2,557	—	2,859	—
1995	0	1	1	(s)	86	88	0	—	—	2,606	—	2,923	—
1996	0	1	(s)	(s)	107	107	0	—	—	2,676	—	3,023	—
1997	0	1	(s)	(s)	R 198	R 198	0	—	—	2,668	—	2,927	—
1998	0	1	(s)	(s)	563	563	0	—	—	2,641	—	2,988	—
1999	0	1	(s)	(s)	319	319	0	—	—	2,689	—	3,145	—
Trillion Btu													
1960	0.0	0.0	(s)	0.0	0.2	0.2	0.0	0.0	0.0	1.8	2.0	5.3	7.3
1965	0.0	0.0	(s)	0.0	0.5	0.5	0.0	0.0	0.0	2.9	3.4	6.7	10.1
1970	0.0	0.0	(s)	0.0	1.7	1.7	0.0	0.0	0.0	4.4	6.1	10.3	16.4
1975	0.0	0.0	(s)	0.0	1.2	1.2	0.0	0.0	0.0	5.7	6.9	12.7	19.6
1980	0.0	1.4	(s)	0.0	1.6	1.6	0.0	0.0	0.0	6.3	9.2	14.0	23.2
1985	0.0	0.7	(s)	0.0	0.4	0.4	0.0	0.0	0.0	6.4	7.5	13.4	20.9
1990	0.0	0.6	(s)	0.0	0.5	0.5	0.0	e 0.0	R e 0.9	7.9	R e 9.9	16.2	R e 26.1
1991	0.0	0.6	(s)	(s)	0.5	0.5	0.0	0.0	R 1.0	8.2	R 10.2	14.1	R 24.3
1992	0.0	0.6	(s)	(s)	1.5	1.5	0.0	0.0	R 1.0	8.3	R 11.4	12.7	R 24.1
1993	0.0	0.6	(s)	(s)	0.3	0.3	0.0	0.0	R 1.1	8.4	R 10.4	10.4	R 20.9
1994	0.0	0.6	(s)	(s)	0.3	0.3	0.0	0.0	R 1.2	8.7	R 10.8	9.8	R 20.6
1995	0.0	0.6	(s)	(s)	0.3	0.3	0.0	0.0	R 1.2	8.9	R 11.0	10.0	R 21.0
1996	0.0	0.6	(s)	(s)	0.4	0.4	0.0	0.0	R 1.3	9.1	R 11.3	10.3	R 21.7
1997	0.0	0.5	(s)	(s)	R 0.7	R 0.7	0.0	0.0	R 1.3	9.1	R 11.6	10.0	R 21.6
1998	0.0	0.6	(s)	(s)	2.0	2.0	0.0	0.0	1.3	9.0	12.9	10.2	23.1
1999	0.0	0.6	(s)	(s)	1.2	1.2	0.0	0.0	1.3	9.2	12.2	10.7	23.0

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Includes small amounts of solar thermal and photovoltaic energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of

renewable energy sources beginning in 1989.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 85. Commercial Energy Consumption Estimates, Selected Years 1960-1999, Hawaii

Year	Coal ^a	Natural Gas ^b	Petroleum						Wood	Electricity ^a	Electrical System Energy Losses ^c	Total ^d		
			Distillate Fuel ^a	Kerosene ^a	LPG ^a	Motor Gasoline	Residual Fuel ^a	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Thousand Cords	Geothermal	Million Kilowatthours	Net Energy	Million Kilowatthours	
1960	0	0	48	23	10	55	41	177	0	—	306	—	921	—
1965	0	0	71	39	20	59	31	220	0	—	495	—	1,136	—
1970	0	0	174	87	79	133	38	511	0	—	771	—	1,813	—
1975	0	0	84	45	57	98	15	299	0	—	1,109	—	2,489	—
1980	0	2	398	0	76	54	25	552	0	—	1,462	—	3,259	—
1985	0	2	136	1	18	47	21	223	0	—	1,612	—	3,371	—
1990	0	2	507	(s)	22	59	837	1,426	0	—	2,253	—	4,589	—
1991	0	2	613	(s)	23	49	19	703	0	—	2,355	—	4,062	—
1992	0	2	437	(s)	73	45	1,063	1,618	0	—	2,417	—	3,678	—
1993	0	2	279	1	15	11	35	341	0	—	2,419	—	3,000	—
1994	0	2	252	(s)	16	11	439	718	0	—	2,601	—	2,908	—
1995	0	2	253	(s)	15	11	63	343	0	—	2,779	—	3,116	—
1996	0	2	152	(s)	19	11	13	195	0	—	2,819	—	3,185	—
1997	0	2	308	(s)	R 35	11	11	R 366	0	—	2,839	—	3,114	—
1998	0	2	194	(s)	99	11	1,812	2,116	0	—	2,833	—	3,205	—
1999	0	2	154	(s)	56	11	7	228	0	—	2,944	—	3,444	—
Trillion Btu														
1960	0.0	0.0	0.3	0.1	(s)	0.3	0.3	1.0	0.0	0.0	1.0	2.0	3.1	5.2
1965	0.0	0.0	0.4	0.2	0.1	0.3	0.2	1.2	0.0	0.0	1.7	2.9	3.9	6.8
1970	0.0	0.0	1.0	0.5	0.3	0.7	0.2	2.7	0.0	0.0	2.6	5.4	6.2	11.6
1975	0.0	0.0	0.5	0.3	0.2	0.5	0.1	1.6	0.0	0.0	3.8	5.4	8.5	13.8
1980	0.0	1.7	2.3	0.0	0.3	0.3	0.2	3.0	0.0	0.0	5.0	9.7	11.1	20.8
1985	0.0	2.0	0.8	(s)	0.1	0.2	0.1	1.2	0.0	0.0	5.5	8.8	11.5	20.3
1990	0.0	2.4	3.0	(s)	0.1	0.3	5.3	8.6	0.0	e 0.0	7.7	e 18.7	15.7	e 34.3
1991	0.0	2.3	3.6	(s)	0.1	0.3	0.1	4.0	0.0	0.0	8.0	14.4	13.9	28.2
1992	0.0	2.3	2.5	(s)	0.3	0.2	6.7	9.7	0.0	0.0	8.2	20.3	12.6	32.8
1993	0.0	2.3	1.6	(s)	0.1	0.1	0.2	2.0	0.0	0.0	8.3	12.5	10.2	22.7
1994	0.0	2.3	1.5	(s)	0.1	0.1	2.8	4.3	0.0	0.0	8.9	15.5	9.9	25.4
1995	0.0	2.3	1.5	(s)	0.1	0.1	0.4	2.0	0.0	0.0	9.5	13.8	10.6	24.4
1996	0.0	2.3	0.9	(s)	0.1	0.1	0.1	1.1	0.0	0.0	9.6	13.0	10.9	23.8
1997	0.0	1.8	1.8	(s)	0.1	0.1	0.1	R 2.1	0.0	0.0	9.7	13.5	10.6	R 24.2
1998	0.0	1.8	1.1	(s)	0.4	0.1	11.4	12.9	0.0	0.0	9.7	24.4	10.9	35.4
1999	0.0	1.8	0.9	(s)	0.2	0.1	(s)	1.2	0.0	(s)	10.0	13.1	11.8	24.8

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^d Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of

renewable energy sources beginning in 1989.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 86. Industrial Energy Consumption Estimates, Selected Years 1960-1999, Hawaii

Year	Coal	Natural Gas ^a	Petroleum									Hydro-electric Power ^b	Wood and Waste	Other ^{b,d}	Electricity ^b	Electrical System Energy Losses ^e	Total	
			Asphalt and Road Oil ^b	Distillate Fuel ^b	Kerosene ^b	LPG ^b	Lubricants ^b	Motor Gasoline	Residual Fuel ^b	Other ^{b,c}	Total							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels									Other ^{b,d}		Million kWh	Million kWh	Net Energy	Million kWh	
1960	0	0	29	554	68	43	18	83	1,038	R 533	R 2,367	0	—	—	465	—	1,403	—
1965	0	0	306	635	10	82	21	76	1,712	R 655	R 3,497	83	—	—	1,096	—	2,516	—
1970	0	0	377	701	66	386	4	49	1,671	R 619	R 3,874	86	—	—	1,720	—	4,044	—
1975	0	0	379	603	31	472	30	53	1,346	R 734	R 3,648	71	—	—	2,538	—	5,696	—
1980	0	0	285	1,369	9	1,041	20	49	1,491	R 872	R 5,135	67	—	—	3,028	—	6,749	—
1985	46	0	308	471	(s)	9	18	104	1,344	R 757	R 3,010	67	—	—	3,143	—	6,571	—
1990	28	0	381	812	(s)	15	20	133	1,765	R 2,215	R 5,342	Rf 57	—	—	3,734	—	7,605	—
1991	37	0	383	692	(s)	46	18	150	1,804	R 1,910	R 5,003	R 51	—	—	3,773	—	6,507	—
1992	47	0	431	602	(s)	130	18	152	1,372	R 2,304	R 5,009	R 51	—	—	3,811	—	5,800	—
1993	73	0	444	451	(s)	772	19	241	1,070	R 2,050	R 5,046	R 42	—	—	3,770	—	4,675	—
1994	86	0	407	349	(s)	1,499	20	245	1,202	R 2,256	R 5,978	R 122	—	—	3,791	—	4,238	—
1995	192	0	438	405	(s)	1,207	19	245	1,040	R 2,161	R 5,515	R 82	—	—	3,803	—	4,265	—
1996	169	0	401	324	(s)	R 1,191	19	259	973	R 2,577	R 5,745	R 87	—	—	3,884	—	4,388	—
1997	145	(s)	396	489	(s)	R 6	20	242	862	R 2,540	R 4,556	R 97	—	—	3,856	—	4,231	—
1998	167	(s)	322	539	(s)	181	21	266	324	2,085	3,738	108	—	—	3,787	—	4,285	—
1999	133	(s)	353	253	(s)	(s)	21	155	399	2,091	3,272	99	—	—	3,748	—	4,384	—
Trillion Btu																		
1960	0.0	0.0	0.2	3.2	0.4	0.2	0.1	0.4	6.5	R 3.2	R 14.3	0.0	0.0	0.0	1.6	R 15.8	4.8	R 20.6
1965	0.0	0.0	2.0	3.7	0.1	0.3	0.1	0.4	10.8	R 3.9	R 21.3	0.9	0.2	0.0	3.7	R 26.1	8.6	R 34.7
1970	0.0	0.0	2.5	4.1	0.4	1.5	(s)	0.3	10.5	R 3.7	R 22.9	0.9	0.2	0.0	5.9	R 29.9	13.8	R 43.7
1975	0.0	0.0	2.5	3.5	0.2	1.8	0.2	0.3	8.5	R 4.4	R 21.3	0.7	0.3	0.0	8.7	R 31.0	19.4	R 50.4
1980	0.0	0.0	1.9	8.0	0.1	3.8	0.1	0.3	9.4	R 5.2	R 28.7	0.7	11.9	0.0	10.3	R 51.7	23.0	R 74.7
1985	1.1	0.0	2.0	2.7	(s)	(s)	0.1	0.5	8.4	R 4.7	R 18.6	0.7	R 14.0	0.0	10.7	R 45.1	22.4	R 67.5
1990	0.7	0.0	2.5	4.7	(s)	0.1	0.1	0.7	11.1	R 13.3	R 32.6	Rf 0.6	R 6.5	Rf 0.4	12.7	Rf 53.5	25.9	Rf 79.4
1991	0.9	0.0	2.5	4.0	(s)	0.2	0.1	0.8	11.3	R 11.6	R 30.6	R 0.5	R 6.7	R 0.4	12.9	R 52.1	22.2	R 74.3
1992	1.2	0.0	2.9	3.5	(s)	0.5	0.1	0.8	8.6	R 13.8	R 30.2	0.5	R 7.0	0.3	13.0	R 52.2	19.8	R 71.9
1993	1.8	0.0	2.9	2.6	(s)	2.8	0.1	1.3	6.7	R 12.4	R 28.9	0.4	R 6.8	R 3.3	12.9	R 54.1	16.0	R 70.0
1994	1.8	0.0	2.7	2.0	(s)	5.5	0.1	1.3	7.6	R 13.6	R 32.8	1.3	R 6.9	4.2	12.9	R 59.9	14.5	R 74.3
1995	4.1	0.0	2.9	2.4	(s)	4.4	0.1	1.3	6.5	R 13.1	R 30.6	R 0.8	R 8.0	R 5.1	13.0	R 61.7	14.6	R 76.2
1996	3.6	0.0	2.7	1.9	(s)	R 4.3	0.1	R 1.3	6.1	R 15.5	R 31.9	0.9	R 16.0	R 5.2	13.3	R 71.0	15.0	R 85.9
1997	3.3	0.4	2.6	2.9	(s)	(s)	0.1	1.3	5.4	R 15.3	R 27.6	1.0	R 14.8	R 4.9	13.2	R 65.0	14.4	R 79.4
1998	3.8	0.4	2.1	3.1	(s)	0.7	0.1	1.4	2.0	12.6	22.1	1.1	13.3	5.2	12.9	58.8	14.6	73.5
1999	3.1	0.5	2.3	1.5	(s)	(s)	0.1	0.8	2.5	12.6	19.9	1.0	14.6	4.6	12.8	56.4	15.0	71.3

^a Includes supplemental gaseous fuels.^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.^c "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."^d "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.^e Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.^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.

R=Revised data.

kWh=kilowatthours. — =Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 87. Transportation Energy Consumption Estimates, Selected Years 1960-1999, Hawaii

Year	Coal ^a	Natural Gas ^b	Petroleum								Ethanol ^c	Electricity ^a	Electrical System Energy Losses ^d	Total ^c	
			Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	LPG ^a	Lubricants ^a	Motor Gasoline	Residual Fuel ^a	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Barrels	Million Kilowatthours	Net Energy	Million Kilowatthours	
1960	0	0	2,640	247	4,321	2	19	3,290	968	11,487	0	0	—	0	—
1965	0	0	613	844	7,618	4	73	3,947	1,195	14,294	0	0	—	0	—
1970	0	0	133	722	14,273	26	68	5,508	1,744	22,473	0	0	—	0	—
1975	0	0	116	831	14,849	22	74	6,615	1,013	23,520	0	0	—	0	—
1980	0	0	199	3,331	14,116	26	74	7,129	1,441	26,317	0	0	—	0	—
1985	0	0	155	3,253	13,260	6	68	7,443	1,526	25,710	e 0	0	—	0	—
1990	0	0	272	3,870	12,646	13	76	8,477	2,694	28,049	0	0	—	0	—
1991	0	0	261	4,224	11,123	14	68	8,771	2,609	27,072	0	0	—	0	—
1992	0	0	243	2,597	9,993	35	69	8,674	3,799	25,410	0	0	—	0	—
1993	0	0	198	2,017	8,891	9	71	8,808	2,689	22,682	0	0	—	0	—
1994	0	0	210	2,362	9,472	14	74	9,088	2,980	24,201	0	0	—	0	—
1995	0	0	218	2,171	9,940	8	73	9,160	2,719	24,289	0	0	—	0	—
1996	0	0	165	1,641	10,087	2	71	9,104	714	21,784	0	0	—	0	—
1997	0	0	121	1,203	10,217	2	75	9,104	500	21,221	0	0	—	0	—
1998	0	0	107	1,228	9,990	1	78	9,065	408	20,876	0	0	—	0	—
1999	0	0	58	1,568	9,474	0	79	8,786	2,051	22,016	0	0	—	0	—
Trillion Btu															
1960	0.0	0.0	13.3	1.4	23.5	(s)	0.1	17.3	6.1	61.8	0.0	0.0	61.8	0.0	61.8
1965	0.0	0.0	3.1	4.9	42.3	(s)	0.4	20.7	7.5	79.0	0.0	0.0	79.0	0.0	79.0
1970	0.0	0.0	0.7	4.2	80.1	0.1	0.4	28.9	11.0	125.3	0.0	0.0	125.3	0.0	125.3
1975	0.0	0.0	0.6	4.8	83.5	0.1	0.5	34.7	6.4	130.5	0.0	0.0	130.5	0.0	130.5
1980	0.0	0.0	1.0	19.4	79.2	0.1	0.5	37.4	9.1	146.7	0.0	0.0	146.7	0.0	146.7
1985	0.0	0.0	0.8	18.9	74.4	(s)	0.4	39.1	9.6	143.3	e 0	0.0	e 143.3	0.0	e 143.3
1990	0.0	0.0	1.4	22.5	71.1	(s)	0.5	44.5	16.9	156.9	0.0	0.0	156.9	0.0	156.9
1991	0.0	0.0	1.3	24.6	62.6	(s)	0.4	46.1	16.4	151.4	0.0	0.0	151.4	0.0	151.4
1992	0.0	0.0	1.2	15.1	56.5	0.1	0.4	45.6	23.9	142.9	0.0	0.0	142.9	0.0	142.9
1993	0.0	0.0	1.0	11.7	50.4	(s)	0.4	46.3	16.9	126.8	0.0	0.0	126.8	0.0	126.8
1994	0.0	0.0	1.1	13.8	53.7	0.1	0.4	R 47.5	18.7	R 135.3	0.0	0.0	R 135.3	0.0	R 135.3
1995	0.0	0.0	1.1	12.6	56.4	(s)	0.4	R 47.8	17.1	R 135.4	0.0	0.0	R 135.4	0.0	R 135.4
1996	0.0	0.0	0.8	9.6	57.2	(s)	0.4	R 47.5	4.5	R 120.0	0.0	0.0	R 120.0	0.0	R 120.0
1997	0.0	0.0	0.6	7.0	57.9	(s)	0.5	R 47.5	3.1	R 116.6	0.0	0.0	R 116.6	0.0	R 116.6
1998	0.0	0.0	0.5	7.2	56.6	(s)	0.5	47.2	2.6	114.6	0.0	0.0	114.6	0.0	114.6
1999	0.0	0.0	0.3	9.1	53.7	0.0	0.5	45.8	12.9	122.3	0.0	0.0	122.3	0.0	122.3

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

^c Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector and is included only once in the total.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 88. Estimates of Energy Input at Electric Utilities, Selected Years, 1960-1999, Hawaii

Year	Coal	Natural Gas ^a	Petroleum				Nuclear Electric Power	Hydroelectric Power ^e	Wood and Waste	Geothermal Energy	Other ^{b,f}	Total ^g
			Heavy Oil ^{b,c}	Light Oil ^{b,d}	Petroleum Coke ^b	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	0	0	2,719	37	0	2,756	0	27	0	0	0	—
1965	0	0	4,292	61	0	4,353	0	22	0	0	0	—
1970	0	0	6,702	96	0	6,798	0	22	24	0	0	—
1975	0	0	8,880	429	0	9,309	0	18	25	0	0	—
1980	0	0	10,239	888	0	11,127	0	20	0	0	0	—
1985	0	0	10,295	752	0	11,047	0	19	25	19	0	—
1990	0	0	12,138	1,632	0	13,769	0	23	6	0	0	—
1991	0	0	10,986	1,710	0	12,696	0	20	0	0	0	—
1992	0	0	10,037	1,952	0	11,989	0	10	0	0	0	—
1993	0	0	8,568	2,088	0	10,656	0	14	0	0	0	—
1994	0	0	8,310	2,100	0	10,409	0	19	0	0	0	—
1995	0	0	8,525	2,187	0	10,713	0	16	0	0	0	—
1996	0	0	8,679	2,301	0	10,980	0	18	0	0	0	—
1997	0	0	8,507	2,286	0	10,793	0	19	0	0	0	—
1998	0	0	8,482	2,382	0	10,864	0	14	0	0	(s)	—
1999	0	0	8,663	2,532	0	11,195	0	19	0	0	4	—
Trillion Btu												
1960	0.0	0.0	17.1	0.2	0.0	17.3	0.0	0.3	0.0	0.0	0.0	17.6
1965	0.0	0.0	27.0	0.4	0.0	27.3	0.0	0.2	0.0	0.0	0.0	27.6
1970	0.0	0.0	42.1	0.6	0.0	42.7	0.0	0.2	0.3	0.0	0.0	43.2
1975	0.0	0.0	55.8	2.5	0.0	58.3	0.0	0.2	0.3	0.0	0.0	58.8
1980	0.0	0.0	64.4	5.2	0.0	69.5	0.0	0.2	0.0	0.0	0.0	69.7
1985	0.0	0.0	64.7	4.4	0.0	69.1	0.0	0.2	0.3	0.4	0.0	70.0
1990	0.0	0.0	76.3	9.5	0.0	85.8	0.0	0.2	0.1	0.0	0.0	86.1
1991	0.0	0.0	69.1	10.0	0.0	79.0	0.0	0.2	0.0	0.0	0.0	79.2
1992	0.0	0.0	63.1	11.4	0.0	74.5	0.0	0.1	0.0	0.0	0.0	74.6
1993	0.0	0.0	53.9	12.2	0.0	66.0	0.0	0.1	0.0	0.0	0.0	66.2
1994	0.0	0.0	52.2	12.2	0.0	64.5	0.0	0.2	0.0	0.0	0.0	64.7
1995	0.0	0.0	53.6	12.7	0.0	66.3	0.0	0.2	0.0	0.0	0.0	66.5
1996	0.0	0.0	54.6	13.4	0.0	68.0	0.0	0.2	0.0	0.0	0.0	68.2
1997	0.0	0.0	53.5	13.3	0.0	66.8	0.0	0.2	0.0	0.0	0.0	67.0
1998	0.0	0.0	53.3	13.9	0.0	67.2	0.0	0.1	0.0	0.0	(s)	67.3
1999	0.0	0.0	54.5	14.8	0.0	69.2	0.0	0.2	0.0	0.0	(s)	69.4

^a Includes supplemental gaseous fuels.^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.^c Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.^d Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.^e If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of imports of electricity that is derived from hydroelectric power.^f "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.^g If applicable, from 1989, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns. See data in appendix Table A8.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.