

I O W A Table CT3. Total End-Use Energy Consumption Estimates, Selected Years, 1960-2019, Iowa

Year	Coal Thousand Short Tons	Natural Gas ^a Billion Cubic Feet	Petroleum							Hydro- electric Power ^{g,h} Million Kilowatt- hours	Biomass		Geo- thermal ^h	Solar ^{h,k}	Electricity Retail Sales	Net Energy ^{h,l}	Electrical System Energy Losses ^m	Total ^{h,l}
			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			Million Kilowatt- hours			
															Thousand Barrels			
1960	3,141	139	10,904	5,017	195	29,463	1,033	6,288	52,899	2	---	---	---	---	8,208	---	---	---
1970	2,136	271	13,350	11,038	725	35,701	352	4,986	66,152	1	---	---	---	---	15,473	---	---	---
1980	1,595	263	15,762	11,167	813	35,394	352	3,805	67,292	1	---	---	---	---	24,858	---	---	---
1990	2,599	215	15,660	6,355	891	31,684	124	2,741	57,456	0	---	---	---	---	29,437	---	---	---
2000	3,163	228	19,038	19,621	771	36,753	143	3,915	80,241	0	---	---	---	---	39,088	---	---	---
2001	3,093	219	19,883	16,127	777	36,768	44	3,072	76,670	0	---	---	---	---	39,444	---	---	---
2002	3,173	221	19,570	18,317	782	38,004	62	3,593	80,328	0	---	---	---	---	40,898	---	---	---
2003	3,187	226	18,718	13,337	793	38,249	150	3,385	74,631	0	---	---	---	---	41,207	---	---	---
2004	3,102	219	20,230	18,974	910	39,445	282	4,053	83,893	0	---	---	---	---	40,903	---	---	---
2005	3,204	220	20,205	20,881	990	39,215	194	4,299	85,784	0	---	---	---	---	42,757	---	---	---
2006	3,370	219	21,043	21,192	1,033	40,429	47	3,628	87,372	0	---	---	---	---	43,337	---	---	---
2007	3,332	267	22,431	16,893	899	40,251	44	3,119	83,637	0	---	---	---	---	45,270	---	---	---
2008	3,161	308	22,847	20,523	786	39,281	170	3,094	86,702	0	---	---	---	---	45,488	---	---	---
2009	2,947	305	22,100	21,389	525	39,588	66	2,728	86,395	0	---	---	---	---	43,641	---	---	---
2010	3,613	299	23,598	19,838	R 956	40,808	24	2,226	R 87,449	0	---	---	---	---	45,445	---	---	---
2011	3,789	297	23,934	19,308	R 964	41,028	32	2,102	R 87,368	0	---	---	---	---	45,655	---	---	---
2012	3,558	279	23,725	15,584	R 1,005	38,519	11	2,357	R 81,201	0	---	---	---	---	45,709	---	---	---
2013	3,643	314	23,875	R 20,678	R 967	39,115	6	3,156	R 87,797	0	---	---	---	---	46,705	---	---	---
2014	3,303	319	25,072	R 20,899	R 963	39,744	6	3,163	R 89,848	0	---	---	---	---	47,202	---	---	---
2015	3,023	302	25,595	R 18,900	R 1,063	39,469	0	2,874	R 87,902	0	---	---	---	---	47,147	---	---	---
2016	2,615	309	25,856	R 19,059	R 1,060	41,192	1	R 2,944	R 90,112	0	---	---	---	---	48,431	---	---	---
2017	2,533	362	25,776	R 19,139	R 1,161	37,618	17	R 3,054	R 86,765	0	---	---	---	---	48,922	---	---	---
2018	2,504	396	26,117	R 21,797	R 1,158	37,266	11	R 2,799	R 89,148	0	---	---	---	---	R 51,211	---	---	---
2019	2,425	391	27,232	23,688	1,152	36,991	16	2,748	91,827	0	---	---	---	---	51,043	---	---	---

Trillion Btu

1960	72.0	143.4	63.5	19.2	1.0	154.8	6.5	38.2	283.2	(s)	6.1	NA	NA	NA	28.0	532.7	69.3	602.0
1970	46.7	273.2	77.8	41.8	4.1	187.5	2.2	31.0	344.4	(s)	5.9	NA	NA	NA	52.8	722.9	127.7	850.6
1980	34.2	263.5	91.8	40.8	4.6	185.9	2.2	23.3	348.6	(s)	48.4	NA	NA	NA	84.8	779.5	203.8	983.3
1990	59.0	216.2	91.2	23.2	5.0	166.4	0.8	17.2	303.8	0.0	47.6	14.0	0.1	(s)	100.4	696.9	252.3	949.3
2000	67.7	229.0	110.8	69.7	4.4	191.2	0.9	24.7	401.7	0.0	30.7	26.9	0.3	(s)	133.4	859.6	336.6	1,196.1
2001	65.7	219.4	115.7	57.0	4.4	191.2	0.3	19.5	388.0	0.0	26.6	26.8	0.3	(s)	134.6	830.6	337.0	1,167.6
2002	66.1	221.9	113.9	65.0	4.4	197.6	0.4	22.8	404.1	0.0	29.8	26.7	0.4	(s)	139.5	856.2	341.0	1,197.2
2003	67.2	226.6	108.9	48.1	4.5	198.8	0.9	21.6	382.8	0.0	29.5	35.8	0.5	(s)	140.6	850.5	342.3	1,192.8
2004	63.3	219.2	117.7	67.1	5.2	205.0	1.8	26.1	422.8	0.0	29.6	50.7	0.6	(s)	139.6	897.4	349.7	1,247.2
2005	65.6	221.4	117.6	73.7	5.6	203.6	1.2	27.6	429.3	0.0	30.0	64.0	0.6	(s)	145.9	928.0	350.3	1,278.6
2006	67.9	221.6	122.1	74.5	5.9	209.6	0.3	23.3	435.6	0.0	19.8	86.1	0.7	(s)	147.9	948.9	351.3	1,303.1
2007	68.4	270.0	129.7	59.5	5.1	207.0	0.3	19.9	421.5	0.0	22.0	110.5	0.8	(s)	154.5	1,019.3	359.3	1,378.6
2008	63.4	311.2	132.1	72.2	4.5	200.6	1.1	19.7	430.1	0.0	22.2	131.3	0.9	(s)	155.2	1,085.1	356.7	1,441.8
2009	58.7	307.3	127.7	74.4	3.0	201.5	0.4	17.4	424.4	0.0	25.3	171.1	1.0	(s)	148.9	1,104.4	344.1	1,448.5
2010	72.1	300.3	136.3	66.7	R 5.4	206.8	0.1	14.0	R 429.4	0.0	26.8	R 192.9	1.2	(s)	155.1	R 1,144.9	353.0	R 1,497.9
2011	76.0	299.7	138.1	64.7	R 5.5	207.7	0.2	13.3	R 429.5	0.0	18.3	R 203.4	1.4	(s)	155.8	R 1,153.1	353.8	R 1,506.8
2012	68.5	282.4	136.8	52.8	R 5.7	195.0	0.1	15.0	R 405.4	0.0	16.2	R 194.7	1.3	(s)	156.0	R 1,093.4	345.3	R 1,438.8
2013	69.1	323.2	137.6	69.9	R 5.5	197.9	(s)	19.5	R 430.3	0.0	18.2	R 195.3	1.3	0.1	159.4	R 1,168.9	351.9	R 1,520.8
2014	63.5	331.6	144.5	R 70.7	R 5.5	201.1	(s)	19.4	R 441.1	0.0	21.3	R 198.0	1.3	0.3	161.1	R 1,187.9	350.2	R 1,538.0
2015	56.5	317.5	147.5	R 63.0	R 6.0	199.6	0.0	17.8	R 433.9	0.0	19.6	R 206.9	1.3	0.4	160.9	R 1,166.9	336.8	R 1,503.7
2016	48.4	326.5	148.9	R 63.6	R 6.0	208.2	(s)	18.2	R 445.0	0.0	18.6	R 209.2	1.3	0.6	165.2	R 1,185.4	R 344.0	R 1,529.4
2017	47.4	381.8	148.4	R 63.9	R 6.6	190.1	0.1	R 18.9	R 428.0	0.0	R 16.1	R 217.5	1.3	0.9	166.9	R 1,226.1	339.5	R 1,565.6
2018	46.3	R 419.4	150.4	74.2	R 6.6	188.3	0.1	R 17.2	R 436.7	0.0	R 17.6	R 223.6	1.3	1.2	174.7	R 1,286.5	338.6	R 1,625.1
2019	45.0	415.8	156.8	81.4	6.5	186.9	0.1	16.8	448.6	0.0	18.7	217.3	1.3	1.5	174.2	1,296.5	337.8	1,634.3

^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 Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, 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 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 net energy 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.
^m 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 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>.
 Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.