

Table CT3. Total End-Use Sector Energy Consumption Estimates, Selected Years, 1960-2021, Iowa

Year	Coal Thousand Short Tons	Natural Gas ^a Billion Cubic Feet	Petroleum							Hydroelectric Power ^{g,h} Million Kilowatt-hours	Biomass		Geothermal ^h	Solar ^{h,k}	Electricity ⁱ Million Kilowatt-hours	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 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	--	--	--	
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	990	40,808	24	2,225	87,483	0	--	--	--	45,445	--	--	--	
2011	3,789	297	23,934	19,308	1,018	41,028	32	2,102	87,421	0	--	--	--	45,655	--	--	--	
2012	3,558	279	23,725	15,584	1,064	38,519	11	2,357	81,260	0	--	--	--	45,709	--	--	--	
2013	3,643	314	23,875	20,678	974	39,115	6	3,157	87,806	0	--	--	--	46,705	--	--	--	
2014	3,303	319	25,072	20,899	953	39,744	6	3,164	89,839	0	--	--	--	47,202	--	--	--	
2015	3,023	302	25,595	18,900	1,051	39,469	0	2,876	87,891	0	--	--	--	47,147	--	--	--	
2016	2,615	309	25,856	19,059	1,045	41,192	1	2,946	90,099	0	--	--	--	48,431	--	--	--	
2017	2,533	362	25,776	19,139	1,139	37,618	17	3,059	86,748	0	--	--	--	48,922	--	--	--	
2018	2,504	396	26,117	21,797	1,143	37,266	11	2,811	89,145	0	--	--	--	51,211	--	--	--	
2019	2,425	391	27,232	23,688	R 1,139	36,992	16	R 2,756	R 91,823	0	--	--	--	51,043	--	--	--	
2020	2,198	360	27,055	21,893	R 808	32,656	0	3,372	R 85,783	0	--	--	--	50,640	--	--	--	
2021	2,132	348	25,949	20,468	1,004	36,394	15	3,788	87,619	0	--	--	--	52,893	--	--	--	

Trillion Btu																		
Year	Coal	Natural Gas	Distillate Fuel Oil	HGL	Jet Fuel	Motor Gasoline	Residual Fuel Oil	Other	Total	Hydroelectric	Wood and Waste	Losses and Co-products	Geothermal	Solar	Electricity	End Use	Electrical System Energy Losses	Total
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
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	1,278.3
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	354.1	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	5.6	206.8	0.1	14.0	429.6	0.0	26.8	192.9	1.2	(s)	155.1	1,145.1	353.0	1,498.1
2011	76.0	299.7	138.1	64.7	5.8	207.7	0.2	13.3	429.8	0.0	18.3	203.4	1.4	(s)	155.8	1,153.4	353.8	1,507.2
2012	68.5	282.4	136.8	52.8	6.0	195.0	0.1	15.0	405.7	0.0	16.2	194.7	1.3	(s)	156.0	1,093.8	345.3	1,439.1
2013	69.1	323.2	137.6	69.9	5.5	197.9	(s)	19.5	430.4	0.0	18.2	196.4	1.3	0.1	159.4	1,170.1	351.9	1,522.0
2014	63.5	331.6	144.5	70.7	5.4	201.1	(s)	19.4	441.1	0.0	21.3	200.4	1.3	0.3	161.1	1,190.3	R 350.1	1,540.4
2015	56.5	317.5	147.5	63.0	6.0	199.6	0.0	17.8	433.8	0.0	19.6	210.7	1.3	0.4	160.9	1,170.7	R 336.9	R 1,507.6
2016	48.4	326.5	148.9	63.6	5.9	208.2	(s)	18.3	444.9	0.0	18.6	214.5	1.3	0.6	165.2	1,190.6	R 344.1	R 1,534.7
2017	47.4	381.8	148.4	63.9	6.5	190.1	0.1	18.9	427.9	0.0	16.1	224.3	1.3	0.9	166.9	1,232.8	R 339.5	R 1,572.3
2018	46.3	419.4	150.4	74.2	6.5	188.3	0.1	17.3	436.7	0.0	17.6	232.0	1.3	1.2	174.7	1,294.9	R 338.9	R 1,633.7
2019	45.0	415.9	156.8	81.4	R 6.5	186.9	0.1	16.9	448.6	0.0	18.7	231.2	1.3	1.5	174.2	1,306.5	R 330.3	R 1,636.8
2020	40.3	383.6	155.7	74.5	R 4.6	165.0	0.0	20.9	R 420.7	0.0	17.1	203.8	1.3	1.9	172.8	1,210.7	R 315.5	R 1,526.3
2021	39.1	371.9	149.6	69.1	5.7	183.8	0.1	22.9	431.1	0.0	17.6	214.9	1.3	2.2	180.5	1,228.1	337.5	1,565.7

^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.
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/>