

Table CT4. Residential sector energy consumption estimates, selected years, 1960-2022, Iowa

Year	Coal ^a Thousand short tons	Natural gas ^b Billion cubic feet	Petroleum				Biomass Wood ^d	Geothermal ^e	Solar ^{e,f}	Electricity ^g Million kilowatthours	End use ^{e,h}	Electrical system energy losses ⁱ	Total ^{e,h}
			Distillate fuel oil	HGL ^c	Kerosene	Total							
1960	537	58	2,610	3,507	2,301	8,417	--	--	3,720	--	--	--	
1965	279	77	2,347	5,020	1,327	8,694	--	--	5,044	--	--	--	
1970	100	96	2,232	7,227	325	9,784	--	--	6,480	--	--	--	
1975	42	94	1,802	7,199	138	9,139	--	--	8,338	--	--	--	
1980	19	85	2,388	4,119	47	6,554	--	--	10,038	--	--	--	
1985	61	79	1,490	3,172	115	4,777	--	--	9,851	--	--	--	
1990	49	71	926	2,904	24	3,853	--	--	10,513	--	--	--	
1995	12	82	781	4,197	25	5,003	--	--	11,640	--	--	--	
2000	29	74	481	5,620	26	6,128	--	--	12,029	--	--	--	
2005	22	67	226	4,595	22	4,843	--	--	13,571	--	--	--	
2006	27	62	241	4,256	15	4,512	--	--	13,344	--	--	--	
2007	32	68	229	4,340	10	4,579	--	--	14,060	--	--	--	
2008	0	75	286	5,718	6	6,010	--	--	14,073	--	--	--	
2009	0	70	182	5,575	14	5,772	--	--	13,723	--	--	--	
2010	0	68	191	4,598	15	4,804	--	--	14,555	--	--	--	
2011	0	67	253	4,646	11	4,909	--	--	14,327	--	--	--	
2012	0	56	128	3,730	2	3,859	--	--	13,988	--	--	--	
2013	0	73	128	4,544	2	4,674	--	--	14,626	--	--	--	
2014	0	77	135	4,634	4	4,772	--	--	14,427	--	--	--	
2015	0	63	135	3,914	3	4,052	--	--	13,786	--	--	--	
2016	0	61	108	4,009	6	4,122	--	--	14,094	--	--	--	
2017	0	60	169	3,796	5	3,970	--	--	13,722	--	--	--	
2018	0	71	158	5,895	3	6,056	--	--	14,840	--	--	--	
2019	0	71	147	6,551	5	6,703	--	--	14,495	--	--	--	
2020	0	64	113	6,186	9	6,308	--	--	14,567	--	--	--	
2021	0	62	146	5,348	4	5,497	--	--	14,652	--	--	--	
2022	0	71	158	6,898	4	7,059	--	--	15,193	--	--	--	

Trillion Btu													
1960	11.4	60.5	15.2	13.5	13.0	41.7	3.3	NA	NA	12.7	129.6	R 25.6	R 155.2
1965	5.9	78.0	13.7	19.3	7.5	40.5	2.2	NA	NA	17.2	143.8	R 33.8	R 177.7
1970	2.0	97.1	13.0	27.8	1.8	42.6	2.0	NA	NA	22.1	165.8	R 45.3	R 211.1
1975	0.8	95.1	10.5	27.7	0.8	38.9	2.3	NA	NA	28.4	165.6	R 58.1	R 223.7
1980	0.4	85.2	13.9	15.8	0.3	30.0	10.3	NA	NA	34.2	160.1	R 72.9	R 233.0
1985	1.3	79.6	8.7	12.2	0.7	21.5	12.9	NA	NA	33.6	135.5	R 68.3	R 203.8
1990	1.2	71.9	5.4	11.2	0.1	16.7	7.0	(s)	(s)	35.9	116.2	R 87.5	R 203.7
1995	0.3	82.6	4.5	16.1	0.1	20.8	6.1	0.1	(s)	39.7	132.5	R 96.2	R 228.7
2000	0.7	74.2	2.8	21.6	0.1	24.5	4.8	0.1	(s)	41.0	135.3	R 100.5	R 235.8
2005	0.5	67.7	1.3	17.6	0.1	19.1	4.3	0.2	(s)	46.3	128.7	R 105.3	R 234.1
2006	0.6	62.6	1.4	16.3	0.1	17.8	3.8	0.2	(s)	45.5	121.3	R 102.3	R 223.6
2007	0.8	68.4	1.3	16.7	0.1	18.1	4.2	0.3	(s)	48.0	132.0	R 104.1	R 236.1
2008	0.0	76.2	1.7	22.0	(s)	23.6	4.7	0.3	(s)	48.0	145.3	R 101.2	R 246.5
2009	0.0	70.6	1.1	21.4	0.1	22.5	5.5	0.4	(s)	46.8	138.2	R 92.6	R 230.7
2010	0.0	68.8	1.1	17.7	0.1	18.8	5.9	0.4	(s)	49.7	135.9	R 95.1	R 231.0
2011	0.0	67.7	1.5	17.8	0.1	19.4	5.8	0.7	(s)	48.9	135.1	R 90.3	R 225.4
2012	0.0	56.6	0.7	14.3	(s)	15.1	4.8	0.5	(s)	47.7	118.3	R 80.9	R 199.2
2013	0.0	74.6	0.7	17.5	(s)	18.2	6.3	0.5	R (s)	49.9	142.9	R 81.5	R 224.4
2014	0.0	79.6	0.8	17.8	(s)	18.6	6.4	0.5	R 0.1	49.2	R 146.8	R 77.6	R 224.5
2015	0.0	66.0	0.8	15.0	(s)	15.8	5.2	0.5	R 0.1	47.0	R 128.2	R 68.5	R 196.7
2016	0.0	64.7	0.6	15.4	(s)	16.1	4.3	0.5	R 0.1	48.1	R 127.8	R 65.0	R 192.8
2017	0.0	63.7	1.0	14.6	(s)	15.6	4.2	0.5	R 0.1	46.8	R 125.2	R 61.4	R 186.5
2018	0.0	75.1	0.9	22.6	(s)	23.6	5.2	0.5	R 0.2	50.6	R 148.8	R 65.8	R 214.7
2019	0.0	75.9	0.8	25.2	(s)	26.0	5.6	0.5	R 0.2	49.5	R 152.1	R 56.2	R 208.3
2020	0.0	68.3	0.6	23.8	0.1	24.5	R 3.5	0.5	R 0.3	49.7	R 141.2	R 40.6	R 181.7
2021	0.0	66.0	0.8	20.5	(s)	21.4	R 3.6	0.5	R 0.3	50.0	R 136.3	R 44.5	R 180.8
2022	0.0	75.6	0.9	26.5	(s)	27.4	4.9	0.5	0.5	51.8	155.2	38.2	193.3

^a Beginning in 2008, data are no longer collected and are assumed to be zero.
^b Includes supplemental gaseous fuels that are commingled with natural gas.
^c Hydrocarbon gas liquids, assumed to be propane only.
^d Wood and wood-derived fuels.
^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.
^f Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial sectors.
^g Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
^h 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.

ⁱ 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: · 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/>