Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2021, Iowa

			Petroleum							Biomass							
	Coal	Natural Gas ^a	Distillate Fuel Oil	HGL ^b	Motor Gasoline ^c	Residual Fuel Oil	Other ^d	Total	Hydro- electric Power ^{e,f}				Solar ^{f,i}	Electricity ^j		Electrical	
Year	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Million kWh	Wood and Waste f,g products h Geothermal f			Million kWh		End Use ^{f,k}	System Energy Losses	Total f,k
1960	2,193	43	5,536	1,098	5,797	573	3,011	16,016	2				NA				
1965 1970	2,464 1,955	68 99	5,607 5,884	1,815 2,949	5,373 5,391	354 261	3,471 3,913	16,620 18,398	2				NA NA				
1975	1.333	121	4,670	5.593	3,791	279	3,130	17.463	i	==	==	==	NA	6.626		==	
1980 1985	1,505 1,572	115 87	4,698 4,971	6,557 4,893	2,612 1,703	273 179	3,047 2,729	17,187 14,475	1				NA NA				
1990	2,353	90	4,807	3,087	1,072	94	2.046	11,105	0				0	11,392			
1995	2,761	113	5,636	12,267	1,038	92	2,228	21,260	0				0				
2000 2001	2,902 2.814	100 93	6,027 6.813	13,368 12.031	784 1,201	140 43	3,232 2,435	23,551 22,524	0	==	==	==	0) 17,127) 16.238	==	==	==
2002	2,860	92	6,209	13,111	1,265	43 60	2,922	23,567	ō				Ō	16,548			
2003 2004	2,898 2,925	94 94	4,722 4.571	7,859 14,128	1,323 1,698	150 282	2,756 3,426	16,810 24,105	0			==	0) 16,803) 17,437			
2005	2,930	96	4,550	15,814	1,568	191	3 617	25,740	ŏ				Ö	17,915			
2006 2007	3,067 3,009	101 141	4,418 4.683	16,355 11,945	1,702 1,394	44 44	3,061 2,538	25,580 20,604	0	==	==	==	0		==	==	==
2008	2,904	162	5,633	13,971	1,102	170	2.531	23,407	ŏ				ŏ	19,237			
2009 2010	2,682 3,348	165 167	5,544 6.119	14,638 R 14,586	1,152 1,320	66 20	2,192 1,733	23,591 R 23,778	0		==	==	0		==		==
2010	3,542	167	5,949	13,872	1,355	32	1,733	22.865	0		==	==	(s) (s)	19,240			
2012	3,345 3,433	169 174	6,290 6,181	11,246 R 15,491	985 970	8	1,935	20,464 R 25,381	0				(s)	19,512			
2013 2014	3,433	174	6,181	H 15.606	970 772	6	2,732 2,690	R 25,717	0				(s) 1	19,635 20,436			
2015	2,849	179	7,657	H 14.474	748	0	2,386	H 25 265	0				1	21,289			
2016 2017	2,485 2,412	190 241	7,912 7,446	R 14,527 R 14,737	875 880	0 17	2,505 _ 2,622	R 25,818 R 25,701	0				3				
2018	2,399	256	7,374	H 14.766	870	11	R 2,414	¹¹ 25.435	Ö				4	23,953			
2019 2020	2,326 2,121	250 235	7,967 7,861	R 15,817 R 14,599	797 811	16 0	2,391 3,043	R 26,988 R 26,314	0				5 8				
2021	2,051	228	7,596	14,354	830	15	2,590	25,385	Ö				9				
	Trillion Btu																
1960 1965	51.7 57.5	44.9 68.9	32.2 32.7	4.2 6.9	30.5 28.2	3.6 2.2	19.6 22.0	90.1 92.0	(s) (s)	2.8 2.9	NA NA	NA NA	NA NA	9.1 12.7	198.6 234.1	22.6 30.3	221.2 264.4
1965	43.0	99.9	34.3	10.8		1.6	24.8	92.0	(s)	3.9	NA NA	NA NA	NA NA		264.7	44.1	308.8
1975	28.4 32.4	122.5	27.2	19.8 23.1	19.9 13.7	1.8	19.9	88.5	(s)	5.1 37.8	NA	NA	NA		267.1	54.2	321.3 378.1
1980 1985	32.4 35.6	114.9 88.0	27.4 29.0	16.7	8.9	1.7 1.1	18.9 17.4	84.8 73.2	(s) (s)	37.8 44.3	NA 4.6	NA NA	NA NA	31.8	301.7 263.5	76.4 74.4	378.1
1990	53.1	90.9	28.0	10.6	5.6	0.6	13.1	57.9	Ò.Ó	39.9	14.0	0.0	0.0	38.9	274.1	97.6	371.7
1995 2000	57.9 60.9	113.5 100.6	32.8 35.1	42.5 45.7	5.4 4.1	0.6 0.9	14.2 20.7	95.4 106.4	0.0	33.1 24.9	26.7 26.9	0.0	0.0		350.2 364.4	117.2 147.5	467.4 511.9
2001	59.1	92.9	39.6	41.2	6.2	0.3	15.7	103.1	0.0	20.9	26.8	0.0	0.0	55.4	344.5	138.7	483.2
2002 2003	58.5 60.2	92.5 94.1	36.1 27.5	45.0 27.1	6.6 6.9	0.4 0.9	18.9 17.9	107.0 80.3	0.0	23.8 23.0	26.7 35.8	0.0	0.0		350.8 336.6	138.0 139.6	488.8 476.2
2004	59.2	94.2	26.6	48.5	8.8	1.8	22.4	108.1	0.0	22.8	50.7	0.0	0.0	59.5	381.7	149.1	530.8
2005 2006	59.1 60.8	96.6 102.3	26.5 25.6	54.3 55.9	8.1 8.8	1.2 0.3	23.6 19.9	113.7 110.6	0.0	24.1 14.4	64.0 86.1	0.0 0.0	0.0		405.3 421.4	146.8 149.8	552.1 571.2
2007	60.8	142.3	27.1	40.5	7.2	0.3	16.4	91.5	0.0	16.3	110.5	0.0	0.0	65.3	470.6	151.8	622.4
2008	57.5	164.1	32.6	47.1	5.6	1.1	16.4	102.7 101.0	0.0	16.3	131.3	0.0	0.0		520.9	150.9	671.8
2009 2010	52.6 66.0	165.7 168.4	32.0 35.3	48.5 46.6	5.9 6.7	0.4 0.1	14.2 11.1	99.9	0.0	18.4 19.5	171.1 192.9	0.0	0.0 (s)		552.7 591.9	143.6 146.5	696.3 738.4
2011	70.3	168.7	34.3	43.8	6.9	0.2	10.7	95.9	0.0	11.2	203.4	0.0	(s)	65.6	597.0	149.1	746.1
2012 2013	63.6 64.3	171.2 178.6	36.3 35.6	36.1 49.9	5.0 4.9	0.1 (s)	12.5 17.0	90.0 107.5	0.0	10.2 10.7	194.7 196.4	0.0	(s)	66.6 67.0	576.7 608.4	147.4 147.9	724.1 756.4
2014	58.7	179.0	38.3	50.4	3.9	(s)	16.6	109.2	0.0	13.5	200.4	0.0	(s)	69.7	613.5	151.6	765.1 R 779.4
2015 2016	52.5 45.4	188.2 200.2	44.1 45.5	46.0 46.2	3.8 4.4	0.ó 0.0	14.9 15.6	108.8 111.8	0.0	12.8 12.5	210.7 214.5	0.0 0.0	(s)	72.6 75.2	627.2 R 641.1	152.1 156.6	797.8
2017	44.6	254.6	42.9 42.5	R 47.0	4.4	0.1	16.4 14.9	R 110.8	0.0	10.4	224.3	0.0	(s)	78.7	R 700.1	160.1	R 860.2 R 883.7
2018 2019	43.9 42.8	271.1 265.6	42.5 45.9	R 47.2 R 51.2	4.4 4.0	0.1 0.1	14.9 14.7	R 109.0 R 115.9	0.0	10.4 10.9	232.0 231.2	0.0	(s)	81.7 82.7	R 725.2 R 729.6	160.1 R 158.5 R 156.8	H 883.7 R 886 5
2020	38.6	250.5	45.2	46.5	4.1	0.0	19.0	114.8	0.0	10.8	203.8	0.0	0.1	83.5	681.4	152.4	R 886.5 833.8
2021	37.3	243.4	43.8	45.6	4.2	0.1	16.3	109.9	0.0	11.2	214.9	0.0	0.1	89.1	685.5	166.6	852.1

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 industrial utility-scale facilities.

Includes a small amount of wind energy consumed by industrial utility-scale facilities.

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.

kWh = Kilowatthours. — = 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 industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Pages: All data are available at https://www.eia.gov/state/seds/seds-data-complete.php.

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Data Source: U.S. Energy Information Administration, State Energy Data System. See Technical Notes. http://www.eia.gov/state/seds/

a Includes supplemental gaseous fuels that are commingled with natural gas.
 b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
 c Beginning in 1993, includes fuel ethanol blended into motor gasoline. There is a discontinuity in this time series between 2014

and 2015 because of coverage. See Technical Notes, Section 4.

Includes a sphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

⁶ Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.

There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources

beginning in 1989.

9 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

h Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

k Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and