Table CT5. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2021, Michigan

Year	Coal	Natural Gas [a]	Petroleum						Hydro-electric Power [e,f]	Biomass		Solar [f,h]	Electricity [i]	End Use [f,j]	Electrical System Energy Losses [k]	Total [f,j]
			Distillate Fuel Oil	HGL [b]	Kerosene	Motor Gasoline [c]	Residual Fuel Oil	Total [d]		Wood and Waste [f,g]	Geothermal [f]					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels						Million Kilowatthours			Million Kilowatthours				
1960	982	43	3,212	192	566	324	1,175	5,468	NA	– –	– –	NA	6,381	– –	– –	– –
1965	760	85	3,019	232	946	536	839	5,572	NA	– –	– –	NA	9,124	– –	– –	– –
1970	378	133	3,482	444	403	804	558	5,691	NA	– –	– –	NA	13,021	– –	– –	– –
1975	279	182	3,589	516	224	954	390	5,672	NA	– –	– –	NA	14,596	– –	– –	– –
1980	243	190	3,123	333	15	823	225	4,519	NA	– –	– –	NA	16,765	– –	– –	– –
1985	197	158	2,449	438	11	699	274	3,872	NA	– –	– –	NA	18,421	– –	– –	– –
1990	214	159	2,010	646	18	770	71	3,516	0	– –	– –	0	21,986	– –	– –	– –
1995	221	194	1,638	792	102	77	5	2,614	0	– –	– –	0	32,153	– –	– –	– –
2000	12	187	1,577	1,095	33	159	5	2,868	0	– –	– –	0	36,793	– –	– –	– –
2005	141	175	1,267	933	28	207	4	2,440	0	– –	– –	0	39,600	– –	– –	– –
2006	8	154	1,337	915	26	91	2	2,370	0	– –	– –	0	39,299	– –	– –	– –
2007	155	164	1,128	911	8	82	0	2,129	0	– –	– –	0	40,047	– –	– –	– –
2008	190	172	1,055	998	7	84	56	2,200	0	– –	– –	0	38,974	– –	– –	– –
2009	246	164	1,358	690	8	127	12	2,195	0	– –	– –	1	37,870	– –	– –	– –
2010	177	152	1,130	687	13	82	76	1,988	0	– –	– –	2	38,123	– –	– –	– –
2011	163	164	1,240	654	9	79	98	2,080	0	– –	– –	R 9	38,613	– –	– –	– –
2012	90	145	1,172	751	3	78	47	2,052	0	– –	– –	R 22	38,514	– –	– –	– –
2013	73	172	1,337	943	7	81	1	2,369	0	– –	– –	24	37,698	– –	– –	– –
2014	68	186	1,161	929	9	3,199	4	5,303	0	– –	– –	26	37,349	– –	– –	– –
2015	47	168	1,335	732	9	1,998	3	4,078	0	– –	– –	27	38,441	– –	– –	– –
2016	14	159	1,132	949	11	2,017	(s)	4,109	0	– –	– –	30	38,986	– –	– –	– –
2017	0	163	1,338	1,070	10	2,048	1	4,467	0	– –	– –	34	38,325	– –	– –	– –
2018	0	180	1,071	1,148	5	2,081	7	4,313	0	– –	– –	45	38,925	– –	– –	– –
2019	0	182	1,418	1,135	9	2,096	0	4,657	0	– –	– –	54	37,861	– –	– –	– –
2020	0	160	1,116	1,785	11	2,112	0	5,023	0	– –	– –	68	35,491	– –	– –	– –
2021	0	161	1,138	1,957	8	2,134	3	5,239	0	– –	– –	79	36,861	– –	– –	– –
			Trillion Btu													
1960	24.3	44.5	18.7	0.7	3.2	1.7	7.4	31.7	NA	0.4	NA	NA	21.8	122.8	53.8	176.6
1965	18.7	86.0	17.6	0.9	5.4	2.8	5.3	31.9	NA	0.3	NA	NA	31.1	168.1	74.3	242.4
1970	9.0	134.7	20.3	1.7	2.3	4.2	3.5	32.0	NA	0.3	NA	NA	44.4	220.4	107.5	327.9
1975	6.5	186.4	20.9	2.0	1.3	5.0	2.4	31.6	NA	0.3	NA	NA	49.8	274.6	119.5	394.1
1980	5.9	194.0	18.2	1.3	0.1	4.3	1.4	25.3	NA	1.0	NA	NA	57.2	283.5	137.4	420.9
1985	4.8	161.4	14.3	1.7	0.1	3.7	1.7	21.4	NA	1.0	NA	NA	62.9	250.9	144.0	394.9
1990	5.3	166.5	11.7	2.5	0.1	4.0	0.4	18.8	0.0	7.3	0.0	0.0	75.0	269.2	189.6	458.8
1995	5.4	201.9	9.5	3.0	0.6	0.4	(s)	13.6	0.0	9.0	0.1	0.0	109.7	335.2	238.0	573.3
2000	0.3	193.6	9.2	4.2	0.2	0.8	(s)	14.4	0.0	8.6	0.2	0.0	125.5	340.1	301.1	641.3
2005	3.4	177.2	7.4	3.6	0.2	1.1	(s)	12.2	0.0	8.3	0.5	0.0	135.1	336.7	322.7	659.4
2006	0.2	156.7	7.8	3.5	0.1	0.5	(s)	11.9	0.0	8.3	0.5	0.0	134.1	311.7	319.1	630.8
2007	3.8	167.4	6.5	3.5	(s)	0.4	0.0	10.5	0.0	8.7	0.5	0.0	136.6	327.5	315.5	642.9
2008	4.9	176.3	6.1	3.8	(s)	0.4	0.4	10.8	0.0	9.1	0.6	0.0	133.0	334.5	298.8	633.3
2009	6.4	167.2	7.8	2.7	(s)	0.6	0.1	11.3	0.0	7.3	0.7	(s)	129.2	322.1	279.6	601.7
2010	4.6	154.8	6.5	2.6	0.1	0.4	0.5	10.1	0.0	7.5	0.7	(s)	130.1	307.8	285.7	593.6
2011	4.1	165.8	7.2	2.5	0.1	0.4	0.6	10.7	0.0	7.5	1.1	0.1	131.7	321.0	289.3	610.4
2012	2.1	147.1	6.8	2.9	(s)	0.4	0.3	10.4	0.0	7.8	0.9	R 0.2	131.4	R 299.8	280.9	580.7
2013	1.7	175.1	7.7	3.6	(s)	0.4	(s)	11.8	0.0	7.2	0.9	0.2	128.6	325.5	275.7	601.2
2014	1.6	189.9	6.7	3.6	0.1	16.2	(s)	26.5	0.0	7.5	0.9	0.2	127.4	354.1	270.5	R 624.5
2015	1.2	173.9	7.7	2.8	(s)	10.1	(s)	20.7	0.0	10.6	0.9	0.3	131.2	338.7	R 261.8	R 600.5
2016	0.3	165.4	6.5	3.6	0.1	10.2	(s)	20.4	0.0	11.3	0.9	0.3	133.0	331.6	R 264.5	R 596.1
2017	0.0	170.1	7.7	4.1	0.1	10.3	(s)	22.2	0.0	11.0	0.9	0.3	130.8	335.2	R 263.7	R 598.9
2018	0.0	188.9	6.2	4.4	(s)	10.5	(s)	21.2	0.0	10.5	0.9	0.4	132.8	354.6	R 265.1	R 619.7
2019	0.0	192.3	8.2	4.4	0.1	10.6	0.0	23.2	0.0	7.1	0.9	0.5	129.2	353.1	R 259.7	R 612.7
2020	0.0	170.2	6.4	6.9	0.1	10.7	0.0	24.0	0.0	6.3	0.9	0.6	121.1	323.1	R 248.2	R 571.3
2021	0.0	170.9	6.6	7.5	(s)	10.8	(s)	24.9	0.0	5.8	0.9	0.7	125.8	328.9	257.3	586.2

[a] Includes supplemental gaseous fuels that are commingled with natural gas.
[b] Hydrocarbon gas liquids, assumed to be propane only.
[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.
[d] Includes small amounts of petroleum coke not shown separately.
[e] Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.
[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.
[g] Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
[h] Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.
[i] Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
[j] 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 commercial utility-scale facilities.
[k] 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 commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. · 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/