			Petroleum						Biomass					
	Coal	Natural gas ^a	Distillate fuel oil ^b	Petroleum coke	Residual fuel oil ^c	Total	Nuclear electric power	Hydroelectric power ^d		Geothermal ^f	Solar ^{f,g}	Wind ^f	Electricity net imports ^h	
Year	Thousand short tons	Billion cubic feet	Thousand barrels			Million kilowatthours		Wood and waste ^{e,f}	Million kilowatthours			Total ^{f,i}		
1960	10,300	5	77	0	362	440	0	1,817		0	NA	NA	1,250	
1965	16,123 20,124 20,914 22,150 25,896	3	68 965 1,538 780 646	Ó	316 4,514 14,136	38/	181 375	1,667 1,581		ŏ	NA	NA	-413 -400	
1970	20,124	64	965	0	4,514	5,479 15,674 10,400 1,168	375	1,581		0	NA	NA	-400	
1975	20,914	57 26	1,538	0	14,136	15,674	7,176 15,891	989 1,083		0	NA NA	NA NA	320 5,685	
1980 1985	25,896	10	646	0	9,621 522	1.168	13 452	881		0	0	0	391	
990 995	29,830	85 123 135 131 109	341 410	Ő	1,149 1,101	1,100 1,490 1,512 2,066 1,641 751 1,076 738	21,611 24,448 18,882	1,605 1,570		Ő	ŏ	Ŏ	-10,918	
995	31,400	123	410	0	1,101	1,512	24,448	1,570		0	0	0	-10,918 5,760	
2000 2005 2006	33,277	135	374 372 302 295 287 257 255 321 223 223	9	1,683	2,066	18,882	1,401 1,433		0	0	0	-327	
005	36,273	131	3/2	170	1,099	1,641	32,872	1,433		0	0	2	-2,730 -2,117	
2007	36,574	124	295	218 252 236 234 220 165 178 624 1,862	231 529 214 127	1.076	29,066 31,517 31,484 21,851 29,625 32,889 28,020 28,921 31,246 29,334 31,552 32,381 30,479	1,488 1,244		0	0	3	-1.206	
2007 2008	36,476	93 84	287	236	214	738	31,484	1.339		Ō	Ō	141	-1,206 2,305	
2009	35,330	84	257	234	127	618	21,851	1,347 1,222		0	0	300 360	5,637 3,564	
010	34,976	113	255	220	117	593 530	29,625	1,222		0	0	360	3,564	
011	32,335	113	321	165	44 50 28	530	32,889	1,328 1,181		0	0	456	4,069	
012 013	31 653	181 111	223	624	28	451 875	28,921	1,390		0	0	2 800	4,270 5,818	
014	29,401	112	261	1,862	16	2 1 3 0	31,246	1,390 1,571		ŏ	ŏ	3,868	5.844	
015	29,487	166	195 214 179	1,602 1,473 1,421 2,278 2,565 1,751 1,812	21 28	1,688 1,662 2,493 2,793	29,334	1,469		0	1	4,797	8,291	
016	23,126	243	214	1,421	28	1,662	31,552	1,539		0	9	4,696	7,807 5,705	
016 017 018	24,058	243 213 254	211	2,278	37 17	2,493	32,381	1,539 1,650 1,559		0	63 116	5,191	5,705 6,487	
010	24,230	234 276	163	1 751	15	1 929	32,909	1,640		0	142	5,457	2,645	
019 020	15.919	301	163 172	1.812	18	1,929 2,002	32,909 30,333	1.704		ŏ	154	6,735	1.707	
021	29,830 31,400 33,277 36,273 34,926 36,574 36,574 36,476 35,330 34,976 32,335 29,669 31,653 29,401 29,447 23,126 24,058 24,058 24,238 21,278 15,919 20,719 19,861	252 320	252 187	2,259 3,443	22 14	2,533 3,644	34,338 26,013	1,329 1,376		0	424 859	456 1,132 2,800 3,868 4,797 4,696 5,191 5,457 5,826 6,735 6,735 7,697 9,151	2,188 1,745	
022	19,861	320	187	3,443	14			1,376		0	859	9,151	1,745	
							Trillion Btu							
960 965	256.3 399.9	5.4 3.0	0.5 0.4	0.0 0.0	2.3 2.0	2.7 2.4	0.0 2.1	R 6.2 R 5.7 R 5.4 R 3.4	0.0 0.0	0.0 0.0	NA NA	NA NA	4.3 -1.4	R 274.9 B 411 7
970	487.0	65.2	5.6	0.0	2.0	34.0	4.1	R 5 4	0.0	0.0	NA	NA	-1.4	R 594 4
975	487.0 494.9 532.2 665.8 663.5 671.2 693.4 721.3 712.4 682.5 677.6	65.2 47.3	8.9	0.0	28.4 88.9	34.0 97.8	79.0	R 3.4	0.0	0.0	NA	NA	1.1	R 723.5
980	532.2	19.4	8.9 4.5 3.8 2.0 2.4 2.2	0.0	60.5	65.0 7.0 9.2 9.3	173.3	R 3.7 R 3.0 R 5.5 R 5.4 R 4.8 R 4.9 R 5.1 R 4.2 R 4.6	0.0 0.0 9.0	0.0	NA	NA	19.4	R 813.0
985	605.8	4.7	3.8	0.0	3.3 7.2	7.0	142.9 228.7 256.9	H 3.0	0.0	0.0	0.0	0.0	1.3	H 764.7
990 995	663.5	69.1 105.1	2.0	0.0 0.0	7.2 6.9	9.2	228.7	1 5.5 B 5 4	9.0	0.0 0.0	0.0 0.0	0.0	-37.3 19.7	B 1 0946.2
000	694 7	126.0	2.4	0.0	10.6	12.8	106.0	R48	19.7 25.6	0.0	0.0	0.0	-11	R 1 058 0
105	718.2	132.6	2.2	1.0	6.9 1.5 3.3 1.3	10.0 4.5 6.5 4.4	343.0 303.3 330.6 329.1 228.5 309.6	R 4.9	23.2 23.2 23.2 22.1 22.7 22.0 21.9	0.0	0.0	(s)	-9.3 -7.2 -4.1 7.9 19.2 12.2	R 1,222.7
006	693.4	110.4	2.2 1.8 1.7 1.7 1.5 1.5	1.2	1.5	4.5	303.3	R 5.1	23.2	0.0	0.0	(s)	-7.2	R 1,132.6
006 007 008	721.3	125.5	1.7	1.4	3.3	6.5	330.6	H 4.2	22.1	0.0	0.0	B (S)	-4.1	H 1,206.1
JU8	/ 12.4	94.8 85.1	1./	1.4	1.3	4.4	329.1	H 4.6	22.7	0.0 0.0	0.0 0.0	B 1 0	7.9	B 1 0/6 6
009 010	677.6	114.8	1.5	1.3 1.3	0.8	3.6 3.5	309.6	R 4 2	22.0	0.0	0.0	B12	12.2	R 1 145 0
011 012	671.8 620.4 559.7 588.9 554.2 555.0	114.5	1.9 1.3 1.3 1.5 1.1	0.9	0.3	3.1	344.2 293.6 302.2 326.8 306.8	R 4.6 R 4.2 R 4.5	22.9 22.3 23.2 24.7 21.2	0.0	0.0	R 1.6	13.9 14.6	R 1,125.0
012	559.7	184.4 113.0	1.3	10	0.3 0.3 0.2	2.6 5.0	293.6	R 4.0 R 4.7	22.3	0.0	0.0	R 3.9	14.6	R 1,085.2
013 014	588.9	113.0	1.3	3.6 10.7	0.2	5.0	302.2	H 4.7	23.2	0.0	0.0	H 9.6	19.9 19.9	H 1,066.5
014 015	554.2	114.3 170.7	1.5	10.7 8.4	0.1 0.1	12.3 9.7	326.8	R 5.4 R 5.0	24./	0.0 0.0	0.0 (s)	H 13.2	19.9 28.3	H 1,0/0.7
015	555.U 432.2	251.6	1.1	8.4 8.1	0.1	9.7 9.5	306.8	5.0 R 5.3	21.2	0.0	(S) R (S)	R 16.0	28.3	R 1 093 1
016 017	446.0	220.9	1.0	13.0	0.2	14.3	338.7	R 5.6	22.7	0.0	Rúź	R 17.7	19.5	R 1.085.6
	452.4	266.0	1.0 1.2 0.9	14.7	0.1	16.0	338.7 318.7	R 5.3	22.5	0.0	R 0.4	R 18.6	22.1	R 1.122.0
018														
2018 2019	432.2 446.0 452.4 397.8	291.6	0.9	10.0	0.1	11.0	343.6	B 5.6	22.7 22.5 21.9	0.0	Bos	^R 19.9	22.1 9.0	^R 1,101.0
018 019 020 021 022	397.8 303.0 390.7 376.4	291.6 317.7 265.4 337.7	0.9 1.0 1.5 1.1	10.0 10.4 12.9 19.7	0.1 0.1 0.1		343.6 316.9 ^R 358.1 271.3	R 5.3 R 5.6 R 5.3 R 5.6 R 5.8 R 5.8 R 4.5	21.9 20.1 22.6	0.0 0.0 0.0 0.0	R 0.5 R 0.5 R 1.4	(s) R 105 R 1.0 R 1.2 R 1.6 R 3.9 R 9.6 R 13.2 R 16.4 R 16.0 R 17.7 R 18.6 R 19.9 R 23.0 R 26.3 31.2	9.0 5.8 7.5 6.0	R 274.9 R 411.7 R 594.4 R 723.5 R 813.0 R 764.7 R 946.2 R 1.084.8 R 1.058.0 R 1.222.7 R 1.132.6 R 1.206.1 R 1.145.0 R 1.145.0 R 1.046.6 R 1.145.0 R 1.046.6 R 1.145.0 R 1.085.2 R 1.066.5 R 1.070.7 R 1.113.1 R 1.093.1 R 1.083.6 R 1.122.0 R 1.102.0 R 1.101.0 R 1.004.2 R 1.004.0 R 1.005.0 R 1.007.0 R 1.005.0 R 1.007.0 R 1.005.0 R 1.007.0 R 1.007.0

Table CT8. Electric power sector consumption estimates, selected years, 1960-2022, Michigan

^a Includes supplemental gaseous fuels that are commingled with natural gas.

 ^b Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.
^c Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.
^d Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
¹ There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
³ Solar thermal and photovoltaic energy.

^h Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

¹ 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 the total.

 — = Not applicable. NA = Not available.
Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. 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 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/

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