

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

Year	Coal <sup>a</sup> Thousand short tons	Natural gas <sup>b</sup> Billion cubic feet	Petroleum				Biomass Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Electricity <sup>g</sup> Million kilowatthours	End use <sup>e,h</sup>	Electrical system energy losses <sup>i</sup>	Total <sup>e,h</sup>
			Distillate fuel oil	HGL <sup>c</sup>	Kerosene	Total							
1960	1,414	202	17,380	2,090	765	20,234	--	--	8,728	--	--	--	
1965	1,007	271	16,334	2,528	1,279	20,141	--	--	11,309	--	--	--	
1970	481	340	18,839	4,842	545	24,226	--	--	17,103	--	--	--	
1975	119	335	19,420	5,625	302	25,347	--	--	20,886	--	--	--	
1980	65	387	9,195	3,637	83	12,915	--	--	22,260	--	--	--	
1985	56	341	6,192	4,771	425	11,389	--	--	22,302	--	--	--	
1990	54	327	4,842	7,045	217	12,104	--	--	25,319	--	--	--	
1995	33	380	3,815	8,637	233	12,685	--	--	28,623	--	--	--	
2000	2	368	2,902	11,940	356	15,199	--	--	30,707	--	--	--	
2005	12	359	1,945	15,437	219	17,601	--	--	36,095	--	--	--	
2006	1	316	1,504	9,483	153	11,140	--	--	34,622	--	--	--	
2007	17	328	1,371	10,916	95	12,383	--	--	35,366	--	--	--	
2008	0	342	1,208	10,215	49	11,472	--	--	34,297	--	--	--	
2009	0	327	909	9,925	71	10,904	--	--	32,854	--	--	--	
2010	0	304	673	9,139	64	9,876	--	--	34,681	--	--	--	
2011	0	318	670	8,667	46	9,384	--	--	34,811	--	--	--	
2012	0	277	459	7,056	15	7,531	--	--	34,461	--	--	--	
2013	0	334	561	9,598	23	10,181	--	--	34,013	--	--	--	
2014	0	355	701	10,292	35	11,028	--	--	33,515	--	--	--	
2015	0	312	511	8,582	29	9,122	--	--	33,358	--	--	--	
2016	0	294	461	9,036	29	9,525	--	--	34,543	--	--	--	
2017	0	299	433	9,082	12	9,527	--	--	32,977	--	--	--	
2018	0	327	478	11,109	12	11,599	--	--	35,131	--	--	--	
2019	0	332	533	11,281	19	11,833	--	--	33,496	--	--	--	
2020	0	304	496	9,461	19	9,976	--	--	35,863	--	--	--	
2021	0	296	507	8,938	18	9,463	--	--	35,868	--	--	--	
2022	0	329	536	8,779	17	9,332	--	--	35,035	--	--	--	

  

Trillion Btu													
1960	35.0	209.0	101.2	8.0	4.3	113.6	22.1	NA	NA	29.8	409.5	R 60.0	R 469.5
1965	24.8	274.8	95.1	9.7	7.3	112.1	17.8	NA	NA	38.6	468.1	R 75.9	R 544.0
1970	11.4	345.1	109.7	18.6	3.1	131.4	16.6	NA	NA	58.4	562.9	R 119.5	R 682.5
1975	2.8	343.0	113.1	21.6	1.7	136.4	15.9	NA	NA	71.3	569.4	R 145.5	R 714.9
1980	1.6	394.9	53.6	14.0	0.5	68.0	42.3	NA	NA	76.0	582.7	R 161.6	R 744.3
1985	1.4	348.9	36.1	18.3	2.4	56.8	43.9	NA	NA	76.1	525.6	R 154.6	R 680.2
1990	1.3	341.9	28.2	27.1	1.2	56.5	27.5	0.6	0.2	86.4	506.7	R 214.5	R 721.2
1995	0.8	395.4	22.2	33.2	1.3	56.7	14.8	0.7	0.3	97.7	557.3	R 208.8	R 766.2
2000	(s)	381.1	16.9	45.9	2.0	64.8	9.9	0.9	0.2	104.8	556.6	R 247.5	R 804.1
2005	0.3	364.0	11.3	59.3	1.2	71.9	25.4	1.8	0.3	123.2	586.7	R 290.5	R 877.2
2006	(s)	321.5	8.7	36.4	0.9	46.0	22.5	2.1	0.3	118.1	510.5	R 276.8	R 787.4
2007	0.4	335.7	7.9	41.9	0.5	50.4	24.9	2.5	0.4	120.7	535.0	R 275.7	R 810.7
2008	0.0	350.0	7.0	39.2	0.3	46.5	27.9	3.0	0.4	117.0	544.8	R 259.9	R 804.7
2009	0.0	334.2	5.2	38.1	0.4	43.8	18.7	3.7	0.4	112.1	512.8	R 239.0	R 751.9
2010	0.0	309.3	3.9	35.1	0.4	39.4	20.0	4.2	0.4	118.3	491.6	R 256.6	R 748.2
2011	0.0	322.4	3.9	33.3	0.3	37.4	19.4	4.0	0.5	118.8	502.5	R 256.9	R 759.4
2012	0.0	281.5	2.6	27.1	0.1	29.8	16.2	4.3	0.5	117.6	449.9	R 246.1	R 696.0
2013	0.0	341.2	3.2	36.9	0.1	40.2	21.2	4.3	0.5	116.1	523.5	R 240.0	R 763.4
2014	0.0	361.3	4.0	39.5	0.2	43.8	21.4	4.3	R 0.5	114.4	545.7	R 232.0	R 777.7
2015	0.0	322.4	2.9	33.0	0.2	36.1	37.6	4.3	R 0.5	113.8	R 514.8	R 216.2	R 731.0
2016	0.0	306.7	2.7	34.7	0.2	37.5	30.0	4.3	R 0.6	117.9	R 497.0	R 223.0	R 720.0
2017	0.0	312.8	2.5	34.9	0.1	37.4	R 29.8	4.3	R 0.6	112.5	R 497.5	R 214.8	R 712.4
2018	0.0	342.5	2.8	42.7	0.1	45.5	36.3	4.3	R 0.6	119.9	R 549.0	R 226.7	R 775.8
2019	0.0	351.3	3.1	43.3	0.1	46.5	37.2	4.3	R 0.7	114.3	R 554.3	R 217.2	R 771.5
2020	0.0	322.6	2.9	36.3	0.1	39.3	R 23.6	4.3	R 0.8	122.4	R 512.9	R 234.4	R 747.4
2021	0.0	313.4	2.9	34.3	0.1	37.4	R 21.3	4.3	R 0.9	122.4	R 499.7	R 233.4	R 733.1
2022	0.0	347.8	3.1	33.7	0.1	36.9	26.6	4.3	1.0	119.5	536.1	217.8	753.9

<sup>a</sup> Beginning in 2008, data are no longer collected and are assumed to be zero.  
<sup>b</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.  
<sup>d</sup> Wood and wood-derived fuels.  
<sup>e</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.  
<sup>f</sup> Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial sectors.  
<sup>g</sup> Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.  
<sup>h</sup> 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.

<sup>i</sup> 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/>