

Table ET4. Commercial sector energy price and expenditure estimates, selected years, 1970-2022, Michigan

Year	Primary energy									Electricity ⁱ	Total energy ^{f,g,h}	
	Coal	Natural gas ^a	Petroleum					Biomass	Total ^{f,g,h}			
			Distillate fuel oil	HGL ^b	Kerosene	Motor gasoline ^c	Residual fuel oil					Wood and waste ^{e,f}
Prices in dollars per million Btu												
1970	0.53	0.83	1.05	1.37	0.74	2.71	0.64	1.22	0.57	0.88	7.12	2.14
1975	1.49	1.45	2.33	2.42	2.44	4.72	1.97	2.69	1.12	1.62	11.41	3.40
1980	1.82	3.13	6.53	4.94	6.14	10.09	3.97	6.91	2.87	3.52	17.60	6.37
1985	2.00	5.61	6.30	8.12	8.47	9.10	4.39	6.78	3.24	5.65	23.36	10.09
1990	1.77	4.44	5.63	9.19	9.53	8.78	3.15	6.74	2.34	4.57	24.21	10.07
1995	1.71	4.28	4.48	7.78	8.79	8.47	2.57	5.52	1.37	4.25	23.27	10.50
2000	1.61	4.63	7.42	11.06	9.38	11.90	3.70	8.76	1.41	4.86	23.36	11.75
2005	2.80	9.24	14.44	16.32	15.49	17.69	6.70	15.27	3.58	9.38	22.98	14.90
2006	2.87	10.56	16.66	18.12	19.69	19.99	7.89	17.25	3.30	10.81	24.94	16.97
2007	2.96	9.80	18.37	19.57	22.33	22.32	—	18.95	3.80	10.02	25.72	16.65
2008	4.61	10.41	24.66	23.30	23.47	25.57	12.41	23.80	4.38	10.83	26.89	17.30
2009	5.95	9.18	14.68	18.64	23.70	18.58	7.98	15.83	2.67	9.31	27.09	16.52
2010	5.07	8.81	18.49	19.61	25.17	22.04	11.66	18.65	2.95	9.11	28.76	17.50
2011	5.04	9.02	24.65	22.93	28.49	28.03	15.63	23.88	3.26	9.63	30.28	18.20
2012	5.37	8.21	24.51	16.88	29.88	28.62	16.91	22.34	2.77	8.85	32.05	19.11
2013	5.14	7.66	24.68	17.98	30.54	27.92	16.68	22.75	2.99	8.42	32.43	17.99
2014	5.10	8.13	23.28	20.20	32.87	26.69	15.95	24.96	3.18	9.98	31.86	17.92
2015	4.42	7.27	13.83	11.30	16.97	19.16	10.27	16.09	3.23	8.02	30.93	17.02
2016	4.27	6.62	11.25	10.51	13.53	17.04	7.32	14.02	2.19	7.22	31.17	16.97
2017	—	6.71	14.02	R 14.41	16.92	19.13	9.80	R 16.48	2.37	7.64	32.25	R 17.39
2018	—	6.60	17.15	R 15.84	26.07	21.21	11.12	R 18.89	2.78	R 7.68	32.67	R 17.17
2019	—	6.44	15.69	R 12.08	22.82	20.21	—	R 17.09	4.79	R 7.54	33.39	R 17.13
2020	—	6.47	10.60	R 11.25	14.82	16.59	—	R 13.46	4.93	R 7.30	34.32	R 17.59
2021	—	7.43	16.89	R 18.41	23.41	23.43	—	R 20.18	5.60	9.01	36.07	R 19.52
2022	—	9.45	28.57	19.53	40.66	30.85	20.03	27.05	8.70	11.47	36.78	20.79

Expenditures in million dollars												
1970	4.8	111.4	21.4	2.3	1.7	11.4	2.2	39.1	(s)	155.3	316.4	471.7
1975	9.8	269.8	48.7	4.8	3.1	23.7	4.8	85.1	0.1	364.7	568.1	932.8
1980	10.8	606.7	118.8	6.3	0.5	43.6	5.6	174.9	0.5	792.9	1,006.9	1,799.7
1985	9.6	905.1	89.9	13.6	0.6	33.4	7.6	145.1	0.6	1,060.7	1,468.2	2,528.8
1990	9.4	738.5	65.9	22.8	1.0	35.5	1.4	126.6	4.4	879.3	1,815.9	2,695.2
1995	9.3	864.6	42.7	23.7	5.1	3.4	0.1	75.0	4.4	953.3	2,552.9	3,506.2
2000	0.5	896.6	68.1	46.5	1.7	9.8	0.1	126.3	4.7	1,028.1	2,932.2	3,960.2
2005	9.6	1,638.0	106.4	58.5	2.5	19.1	0.2	186.6	16.0	1,850.2	3,104.6	4,954.8
2006	0.5	1,654.4	129.2	63.7	2.9	9.4	0.1	205.3	15.7	1,875.9	3,344.5	5,220.4
2007	11.2	1,640.7	119.9	68.4	1.0	9.4	—	198.7	19.1	1,869.7	3,513.9	5,383.6
2008	22.4	1,834.7	150.3	89.3	1.0	10.9	4.4	255.9	23.6	2,136.6	3,575.2	5,711.8
2009	38.0	1,535.3	115.2	49.4	1.1	12.0	0.6	178.2	12.4	1,763.9	3,500.7	5,264.7
2010	23.3	1,363.5	120.6	51.7	1.9	9.2	5.6	189.0	15.0	1,590.8	3,740.7	5,331.5
2011	20.5	1,495.0	176.4	57.6	1.5	11.3	9.7	256.4	16.7	1,788.5	3,989.0	5,777.5
2012	11.4	1,207.5	165.7	48.7	0.6	11.4	5.0	231.3	17.4	1,467.7	4,211.4	5,679.0
2013	8.9	1,341.3	190.2	65.1	1.2	11.4	0.1	268.0	16.2	1,634.4	4,170.8	5,805.2
2014	8.1	1,543.5	155.8	72.1	1.8	432.0	0.4	662.0	18.2	2,231.8	4,060.0	6,291.8
2015	5.2	1,264.4	106.4	31.8	0.8	193.6	0.2	332.8	R 22.0	1,624.4	4,057.3	5,681.7
2016	1.5	1,094.4	73.3	38.3	0.8	173.7	(s)	286.2	R 16.7	1,398.9	4,146.8	5,545.6
2017	—	1,141.7	108.0	R 59.2	1.0	197.9	(s)	R 366.2	R 17.1	R 1,525.0	4,217.0	R 5,742.0
2018	—	1,246.1	105.8	R 69.9	0.8	223.0	0.5	R 400.0	R 18.7	R 1,664.8	4,339.3	R 6,004.1
2019	—	1,238.2	128.1	R 52.6	1.2	214.0	—	R 396.0	16.6	R 1,650.8	4,313.0	R 5,963.8
2020	—	1,100.9	68.1	R 77.1	0.9	176.9	—	R 323.1	12.9	R 1,436.9	4,156.5	R 5,593.4
2021	—	1,270.2	110.8	R 138.4	1.0	252.4	0.2	R 502.8	13.8	R 1,786.9	4,537.1	R 6,324.0
2022	—	1,792.7	195.6	137.2	1.7	341.4	0.4	676.3	21.5	2,490.6	4,657.6	7,148.1

^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 the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See Consumption Technical Notes, Section 4.
^d Includes small amounts of petroleum coke not shown separately.
^e Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
^g There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.
^h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline

column.
ⁱ Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.
Notes: Expenditure 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.
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/>