

Table ET3. Residential sector energy price and expenditure estimates, selected years, 1970-2022, Michigan

Year	Primary energy							Electricity ^f	Total energy ^e	
	Coal ^a	Natural gas ^b	Petroleum			Biomass	Total ^e			
			Distillate fuel oil	HGL ^c	Kerosene	Wood ^d				
Prices in dollars per million Btu										
1970	1.43	1.00	1.23	2.04	1.56	1.36	0.57	1.10	6.99	1.73
1975	3.07	1.58	2.51	4.29	3.12	2.80	1.12	1.93	11.32	3.13
1980	3.70	3.13	7.05	8.08	8.43	7.27	2.87	3.72	16.76	5.53
1985	3.86	6.14	7.66	9.63	8.47	8.33	3.24	6.38	21.62	8.74
1990	3.39	4.81	7.57	11.37	9.53	9.43	3.56	5.42	22.95	8.48
1995	3.08	4.53	6.58	9.53	8.79	8.36	2.90	4.99	24.44	8.41
2000	3.06	4.93	9.12	12.07	9.38	11.21	4.41	5.83	24.98	9.46
2005	4.27	10.39	15.71	17.68	15.49	17.33	6.91	11.45	24.63	14.31
2006	4.66	11.76	17.87	19.79	19.69	19.42	7.96	12.63	28.63	16.46
2007	4.31	10.82	19.92	21.70	22.33	21.42	8.79	12.13	29.93	16.30
2008	—	11.65	23.62	25.72	23.47	25.39	10.83	13.21	31.49	17.30
2009	—	11.03	16.15	23.48	23.70	22.61	8.13	12.31	34.01	17.21
2010	—	11.14	20.48	22.90	25.17	22.68	9.60	12.39	36.51	18.42
2011	—	10.33	27.36	25.16	28.49	25.41	11.54	11.89	38.91	18.51
2012	—	9.78	27.27	23.20	29.88	23.58	12.85	11.13	41.43	19.34
2013	—	8.90	28.29	22.56	30.54	23.05	12.58	10.43	42.76	17.87
2014	—	9.16	27.34	27.28	32.87	27.31	12.27	11.14	42.38	17.93
2015	—	8.53	17.90	20.22	16.97	20.02	8.45	9.64	42.27	17.31
2016	—	7.87	15.49	18.27	13.53	18.05	7.22	8.94	44.61	17.85
2017	—	8.01	17.64	21.04	16.92	20.81	8.08	9.35	45.13	17.87
2018	—	7.82	19.24	21.92	26.07	21.76	8.94	9.44	45.27	17.71
2019	—	7.64	18.39	19.15	22.82	19.11	8.60	8.97	46.14	17.08
2020	—	7.78	15.35	17.49	14.82	17.33	7.11	^R 8.78	47.66	^R 18.46
2021	—	8.70	19.73	22.77	23.41	22.53	8.54	^R 10.14	51.39	^R 20.66
2022	—	10.69	28.79	26.28	40.66	26.53	13.21	12.23	52.33	21.58
Expenditures in million dollars										
1970	16.3	345.1	135.5	37.9	4.8	178.2	1.7	541.4	408.1	949.5
1975	8.6	542.8	284.4	92.8	5.3	382.5	3.2	937.2	806.7	1,743.9
1980	5.8	1,236.0	377.7	112.8	4.0	494.5	22.0	1,758.3	1,273.3	3,031.6
1985	5.3	2,143.5	276.2	176.5	20.4	473.0	25.8	2,647.6	1,645.1	4,292.7
1990	4.5	1,644.2	213.4	307.7	11.7	532.9	30.9	2,212.5	1,982.5	4,195.0
1995	2.5	1,792.2	146.1	316.1	11.6	473.7	13.6	2,282.0	2,387.3	4,669.3
2000	0.1	1,879.1	154.0	553.4	18.9	726.3	13.8	2,619.3	2,617.7	5,237.0
2005	1.3	3,783.5	177.8	1,048.1	19.2	1,245.1	55.4	5,085.3	3,032.8	8,118.1
2006	0.1	3,779.8	155.9	720.7	17.1	893.7	56.6	4,730.1	3,381.9	8,112.1
2007	1.8	3,632.5	158.0	909.7	12.1	1,079.8	69.1	4,783.2	3,611.8	8,395.0
2008	—	4,077.1	164.9	1,009.2	6.5	1,180.6	95.3	5,353.0	3,685.4	9,038.4
2009	—	3,686.6	84.8	895.2	9.6	989.5	48.0	4,724.0	3,812.7	8,536.7
2010	—	3,445.0	79.7	804.0	9.1	892.7	60.7	4,398.4	4,320.8	8,719.2
2011	—	3,329.5	105.8	837.7	7.5	951.0	70.8	4,351.3	4,621.2	8,972.4
2012	—	2,753.9	72.2	628.7	2.6	703.5	65.8	3,523.2	4,871.0	8,394.3
2013	—	3,038.0	91.4	831.7	3.9	927.0	84.1	4,049.2	4,962.4	9,011.5
2014	—	3,309.5	110.4	1,078.5	6.6	1,195.5	83.0	4,588.0	4,846.5	9,434.5
2015	—	2,749.6	52.8	666.5	2.8	722.1	^R 100.4	^R 3,572.0	4,810.8	8,382.9
2016	—	2,415.0	41.1	633.9	2.2	677.2	68.5	3,160.7	5,258.1	8,418.8
2017	—	2,506.9	44.0	734.0	1.2	779.1	76.2	3,362.3	5,078.0	8,440.3
2018	—	2,677.8	53.0	935.2	1.7	990.0	^R 102.4	^R 3,770.2	5,426.8	^R 9,197.0
2019	—	2,684.6	56.5	829.9	2.5	888.9	^R 101.1	^R 3,674.6	5,273.1	^R 8,947.7
2020	—	2,509.6	43.8	635.6	1.6	680.9	^R 52.9	^R 3,243.5	5,831.5	^R 9,074.9
2021	—	2,726.5	57.7	781.6	2.4	^R 841.6	^R 57.6	^R 3,625.7	6,289.8	^R 9,915.5
2022	—	3,717.7	89.0	886.3	3.9	979.2	111.1	4,808.0	6,256.0	11,064.0

^a Beginning in 2008, consumption data are no longer collected and are assumed to be zero.
^b Includes supplemental gaseous fuels that are commingled with natural gas.
^c Hydrocarbon gas liquids, assumed to be propane only.
^d Wood and wood-derived fuels.
^e There are no direct fuel costs for geothermal or solar energy.
^f Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy

service providers.
Where shown, R = Revised data, — = No consumption, and (s) = Value less than 0.05 million dollars.
Note: Expenditure totals may not equal sum of components due to independent rounding.
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/>