Table CT6.	Industrial secto	r enerav consun	nption estimates	. selected vears	, 1960-2022, Michigan

	Coal	Natural gas ^a Billion cubic feet	Petroleum						Biomass								
			Distillate fuel oil	HGL ^b	Motor gasoline ^c	Residual fuel oil	Other d	Total	Hydro- electric power ^{e,f}				Solar ^{f,i}	Electricity ^j		Electrical	
	Thousand short tons		Thousand barrels					Million kWh	Wood and waste ^{f,g}	Losses and co- Geo- products ^h thermal ^f		Million kWh		End use ^{f,k}	system energy losses	Total ^{f,k}	
50	13,011	117	7,091	524 923	3,151	9,574	10,949	31,288	212				NA	12,482			
65 '0	15,193 13,061	192 262	7,518 8,502	923 854	2,694 2,758	6,660 4,557	13,665 13,367	31,460 30,038	146 123				NA NA				
75	9,885	300	8,749	1.239	1,889	3,343	12,239	27,460	121				NA	28,866			
30 35	8,652 6,645	249 190	4,804 4,408	2,637 8,725	967 1,192	3,213 2,213	13,129 8,405	24,750 24,944	117 117				NA NA				
0	4,719	290	3,957	6,926	976	1,416	10,635	23,911	23				0	35,062			
5	4,383	254	3,457	4,826	1,310	402	11,392	21,387	27				0	33,921			
0 15	4,004 3.017	247 222	4,055 3,475	3,006 6,279	1,060 2,237	622 909	12,207 10,913	20,951 23.813	27 29				0	37,268 34,745			
6	3,132	199	3,020	4,407	2,237	736	9.864	20,405	32				0	34,745			
7	2,922	156	3,154	4,112	2,218	967	10,317	20,768	26				Ő	33,879			
8 9	3,204 1,850	149 137	3,415 3,091	1,003 988	1,883 1,442	982 342	8,394 8,371	15,677 _ 14,234	26 25				0 (s)	32,505 27,391			
9 0	2.621	137	3.224	R 2 154	1.254	154	7.434	R 1/ 220	25				(S)	30,841			
1	2,636	158	3,208	^H 2.399	1,206	218	6,823	R 13 854	29				(s)	31,624			
2	2,291 2,588	167 179	2,825 3,322	R 2,466 R 2,687	1,316 1,385	188 138	7,274 8,435	R 14,069 R 15,966	26 29				(s)	31,836 31,322			-
3 4	2,500	188	3,322	R 2,547	959	73	9,055	R 15,808	29				1	32,446			
5	2,391	178	3,803	1,561	1,559	72	9,332	16 327	29 30				1	30,677			
i,	1,516	178 176	3,912	1,561	1,598	26	R 9,897 R 9,974	R 16,994 R 16,422	26				1	30,934			
7 3	1,974 2,039	182	3,500 3,756	1,317 1,157	1,612 1,643	18 26	^R 9,219	R 15,801	29 10				2	30,591 30,806			
9	1,918	179	3,737	1,410	1,626	24	R 9.743	H 16.540	10				3	29,886			-
0 1	1,226 1,753	159 164	3,326 3,704	1,385 1,391	1,632 1,568	26 24	R 9,812 R 9,900	R 16,183 R 16,587	9 11				3	25,654 27,081			
2	1,753	173	3,704 3,744	1,905	1,568	24	9,900	17,254	10				5				
									Trillion Btu	1							
60 65	332.0 385.6	121.3 195.1	41.3 43.8	2.0 3.5	16.5 14.2	60.2 41.9	66.3 80.4	186.3 183.7	R 0.7 R 0.5	14.8 18.8	NA NA	NA NA	NA NA			^R 85.9 ^R 129.9	^R 783. ^R 979.
0	320.9	265.7	43.8	3.5	14.2	28.7	80.2	176.0	R 0.4	19.5	NA	NA	NA		R 868.4	H 175 Q	R 1.044.
5	246.7	307.7	51.0	4.4	9.9	21.0	74.1	160.4	R 0.4	19.7	NA	NA	NA	98.5	^R 833.4	^R 201.1	R 1.034.
0 5	219.4 169.9	253.7 194.2	28.0 25.7	9.3 29.8	5.1 6.3	20.2 13.9	78.2 51.1	140.8 126.8	R 0.4 R 0.4	47.2 55.3	NA 0.0	NA NA	NA NA		^R 766.1 ^R 660.9	R 222.5 R 233.7	R 988. R 894.
0	117.9	302.6	23.1	23.9	5.1	8.9	65.2	126.2	R 0.1	36.5	0.0	0.0	0.0		^R 696.3	R 297 0	R 993
5	109.2	264.4	20.1	16.7	6.8	2.5 3.9	70.9	117.1	R 0.1	44.7	0.0	0.0	0.0	115.7	^R 645.4	R 247.5	R 892.
0 5	104.8 77.5	256.2 225.4	23.6 20.2	10.3 21.6	5.5 11.6	3.9 5.7	76.1 68.9	119.4 128.0	R 0.1 B 0.1	50.4 36.3	0.0 2.7	0.0 0.0	0.0 0.0	127.2 118.5	R 654.7 R 588.5	R 247.5 R 300.3 R 279.7	R 955. R 868.
6	80.0	202.4	17.5	15.1	12.3	4.6	62.0	120.0	R 0.1	34.1	4.5	0.0	0.0		R 549 0	R 272.6	R 821.
7	75.6	159.7	18.2	13.9	11.4	6.1	64.0	113.7	B 0.1	34.7	10.5	0.0	0.0	115.6	^R 509.9	R 272.6 R 264.1	^R 821. ^R 774.
B 9	82.7 47.1	152.2 140.0	19.7 17.9	3.4 3.3	9.6 7.3	6.2 2.1	51.8 52.1	90.7 82.8	R 0.1 R 0.1	35.2 32.5	12.7 11.8	0.0	0.0 (s)	110.9 93.5		R 246.3 R 199.3	R 730. R 607
0	67.1	154.1	18.6	R 8.3	6.4	1.0	46.3	R 80.5	R 0.1	40.0	15.1	0.0	(S)	105.2	R 462.3	R 199.3 R 228.2	R 607. R 690.
	66.7	160.4	18.5	R 9.2	6.1	1.4	42.3	R 77.5	R 0.1	51.2	15.0	0.0	(s)	107.9	R 478.8	H 233.4	H 712.
2	59.8 67.6	170.0 182.9	16.3 19.1	R 9.5 R 10.3	6.7 7.0	1.2 0.9	45.1 51.4	R 78.7 R 88.8	^R 0.1 ^R 0.1	51.2 52.7	14.4 14.9	0.0	(s) (s)	108.6 106.9	R 482.8 R 513.8	R 227.4 R 221.0	R 710. R 734.
1	62.7	191.3	18.3	R 9.8	4.9	0.5	55.3	^R 88.7	R 0.1	52.3	14.5	0.0	(s) (s)	110.7	R 520.8	R 224 6	R 745
5	61.1	184.3	21.9	6.0	7.9	0.5	57.3	93.6	B 0.1	50.1	15.0	0.0	(s)	104.7	^R 508.8	R 198.8 R 199.7	R 707.
6 7	38.7 53.5	186.1 184.3	22.5 20.2	6.0 5.1	8.1 8.1	0.2 0.1	R 61.5 R 62.1	98.2 R 95.5	R 0.1 R 0.1	49.3 44.4	15.2 18.2	0.0	(s)	105.5 104.4	R 493.2 R 500.3	^H 199.7 ^R 199.3	R 692. R 699.
B	53.5	194.3	20.2	4.4	8.3	0.1	R 57.6	^R 92.1	R _(s)	44.4	19.1	0.0	(s)	104.4	^R 506.8	R 198 8	R 705.
9	50.0	189 5	21.5	5.4	8.2	0.2	R 60.7	^H 96.0	R (s)	44.9	18.1	0.0	(s)	102.0	^H 500.6	^R 193.8	^R 694.
0	31.5 45.5	R 168.9 R 173.3	19.1 21.4	5.3 5.3	8.2 7.9	0.2 0.1	^R 61.2 ^R 61.9	R 94.1 R 96.6	R (s) R (s)	42.9 44.0	16.3 16.9	0.0 0.0	(s)	87.5 92.4	^R 441.2 ^R 468.7	^R 167.7 ^R 176.2	^R 608. ^R 644.
21 22	45.5	182.5	21.4	7.3	8.4	0.1	62.0	99.4	(s)	44.0	17.4	0.0	(S)		486.9	177.1	664.

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

 ^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
^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 asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See

Technical Notes, Section 4. 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 ⁹ Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

Losses and co-products from the production of biodiesel and fuel ethanol.

Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.

Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

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 industrial utility-scale facilities.

¹ 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.

 Wh = Kilowatthours, -- = 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 industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. - The continuity of these data series estimates may be affected by the changing data sources and estimation methodologies. See the Technical Netro ferceopt bare of concern. 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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