

Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2023, Pennsylvania

Year	Coal Thousand short tons	Natural gas ^a Billion cubic feet	Petroleum						Hydro-electric power ^{e,f} Million kWh	Biomass		Geo-thermal ^f	Solar ^{f,i} Million kWh	Electricity ^j Million kWh	End use ^{f,k}	Electrical system energy losses ^l	Total ^{f,k}
			Distillate fuel oil	HGL ^b	Motor gasoline ^c	Residual fuel oil	Other ^d	Total		Wood and waste ^{f,g}	Losses and co-products ^h						
1960	33,140	213	8,645	992	1,456	29,692	17,976	58,762	16	---	---	---	NA	20,693	---	---	---
1965	40,010	285	11,641	1,383	1,480	29,434	23,354	67,291	15	---	---	---	NA	29,075	---	---	---
1970	35,753	340	10,196	2,396	1,181	27,132	23,465	64,370	12	---	---	---	NA	38,993	---	---	---
1975	28,510	263	11,033	3,439	1,098	21,941	24,391	61,902	1	---	---	---	NA	41,256	---	---	---
1980	21,877	337	11,128	5,238	586	11,555	22,987	51,494	1	---	---	---	NA	46,045	---	---	---
1985	13,716	231	6,434	4,624	1,276	2,624	19,794	34,753	1	---	---	---	NA	42,520	---	---	---
1990	14,546	241	7,489	3,177	1,180	5,734	27,019	44,600	0	---	---	---	(s)	45,992	---	---	---
1995	14,885	252	4,392	1,687	934	2,888	26,762	36,663	0	---	---	---	(s)	47,528	---	---	---
2000	10,508	235	5,576	1,766	703	1,994	25,625	35,664	0	---	---	---	(s)	45,449	---	---	---
2005	9,957	190	5,681	6,649	1,841	1,915	30,674	46,760	0	---	---	---	(s)	47,950	---	---	---
2006	9,595	195	7,293	7,372	2,112	1,709	30,102	48,588	0	---	---	---	(s)	47,920	---	---	---
2007	9,264	196	7,847	6,933	1,542	1,300	29,370	46,991	0	---	---	---	(s)	48,579	---	---	---
2008	9,135	198	8,775	8,517	837	1,045	27,039	46,212	0	---	---	---	(s)	48,131	---	---	---
2009	6,017	186	5,495	7,851	840	750	26,299	41,236	0	---	---	---	1	43,552	---	---	---
2010	7,498	221	5,903	7,722	2,048	679	24,603	40,955	0	---	---	---	10	45,458	---	---	---
2011	7,217	247	7,049	8,246	1,241	696	22,421	39,651	0	---	---	---	35	49,585	---	---	---
2012	6,872	282	7,877	6,042	2,073	205	18,529	34,726	0	---	---	---	50	48,039	---	---	---
2013	7,908	340	8,707	6,021	2,133	139	20,577	37,577	0	---	---	---	58	48,043	---	---	---
2014	8,056	399	9,924	6,319	1,716	78	21,419	39,457	0	---	---	---	63	48,318	---	---	---
2015	7,567	386	8,869	6,217	1,494	90	22,350	39,019	0	---	---	---	68	47,404	---	---	---
2016	5,818	401	6,389	6,329	1,485	123	21,777	36,102	0	---	---	---	68	47,128	---	---	---
2017	6,012	415	6,264	6,207	1,503	95	22,457	37,526	0	---	---	---	64	47,989	---	---	---
2018	6,223	457	7,522	6,313	1,523	76	21,194	36,628	0	---	---	---	66	49,155	---	---	---
2019	6,002	497	7,609	6,201	1,521	92	17,620	33,045	0	---	---	---	70	50,423	---	---	---
2020	4,157	472	5,579	6,525	1,534	112	13,040	26,790	0	---	---	---	75	48,607	---	---	---
2021	5,760	515	7,450	6,696	1,514	90	13,730	29,479	0	---	---	---	77	50,000	---	---	---
2022	5,888	523	7,530	24,200	1,589	92	14,550	47,961	0	---	---	---	85	50,883	---	---	---
2023	5,455	509	7,351	40,958	1,599	76	13,324	63,308	0	---	---	---	96	50,147	---	---	---

Trillion Btu																	
1960	873.1	220.0	50.4	3.8	7.6	186.7	110.7	359.1	0.1	19.8	NA	NA	NA	70.6	1,542.7	142.4	1,685.1
1965	1,053.3	296.1	67.8	5.2	7.8	185.0	142.3	408.2	0.1	25.8	NA	NA	NA	99.2	1,882.6	195.1	2,077.8
1970	932.1	351.2	59.4	8.7	6.2	170.6	143.5	388.4	(s)	32.3	NA	NA	NA	133.0	1,837.2	272.5	2,109.7
1975	743.1	269.8	64.3	12.2	5.8	137.9	148.1	368.3	(s)	36.3	NA	NA	NA	140.8	1,558.3	287.4	1,845.7
1980	573.1	344.0	64.8	18.5	3.1	72.6	139.5	298.5	(s)	74.6	NA	NA	NA	157.1	1,445.8	334.2	1,780.0
1985	359.2	238.7	37.5	15.8	6.7	16.5	122.7	199.2	(s)	87.4	0.0	NA	NA	145.1	1,029.5	294.8	1,324.3
1990	382.1	250.9	43.6	11.0	6.2	36.0	166.3	263.1	0.0	23.7	0.0	0.0	(s)	156.9	1,076.7	343.1	1,419.8
1995	392.2	261.4	25.6	5.8	4.9	18.2	165.3	219.8	0.0	33.2	0.0	0.0	(s)	162.2	1,068.7	365.3	1,434.1
2000	277.9	243.6	32.4	6.0	3.7	12.5	158.3	212.9	0.0	38.0	0.0	0.0	(s)	155.1	927.4	356.0	1,283.4
2005	250.3	197.5	33.1	22.8	9.6	12.0	190.6	268.1	0.0	32.6	(s)	0.0	(s)	163.6	912.0	359.8	1,271.8
2006	240.5	202.5	42.3	25.2	10.9	10.7	186.6	275.8	0.0	30.3	(s)	0.0	(s)	163.5	912.6	353.0	1,265.6
2007	232.3	203.7	45.4	23.5	7.9	8.2	181.7	266.7	0.0	30.5	(s)	0.0	(s)	165.8	898.9	350.7	1,249.6
2008	227.3	205.2	50.7	28.7	4.3	6.6	167.4	257.6	0.0	30.3	(s)	0.0	(s)	164.2	884.7	349.4	1,234.1
2009	147.9	193.1	31.7	26.0	4.3	4.7	163.2	230.0	0.0	28.9	(s)	0.0	(s)	148.6	748.4	304.6	1,053.1
2010	186.2	228.8	34.1	29.6	10.4	4.3	152.9	231.3	0.0	38.1	(s)	0.0	(s)	155.1	844.9	314.0	1,158.9
2011	180.3	257.1	40.7	31.6	6.3	4.4	138.9	221.8	0.0	52.2	4.7	0.0	0.1	169.2	885.5	337.1	1,222.6
2012	185.6	294.9	45.4	23.2	10.5	1.3	115.4	195.8	0.0	52.2	0.0	0.2	0.2	163.9	897.4	326.1	1,223.5
2013	217.2	357.3	50.2	23.1	10.8	0.9	126.5	211.4	0.0	59.8	5.7	0.0	0.2	163.9	1,015.6	323.7	1,339.3
2014	221.8	419.6	57.2	24.2	8.7	0.5	132.3	223.0	0.0	54.9	5.3	0.0	0.2	164.9	1,089.7	324.7	1,414.3
2015	207.6	405.0	51.1	23.8	7.6	0.6	138.4	221.5	0.0	53.1	5.1	0.0	0.2	161.7	1,054.3	315.0	1,369.3
2016	159.7	418.1	36.8	23.8	0.8	0.8	137.3	206.6	0.0	54.7	5.6	0.0	0.2	160.8	1,005.7	311.8	1,317.6
2017	167.1	432.7	41.8	23.8	7.6	0.6	141.4	215.2	0.0	54.6	5.2	0.0	0.2	163.4	1,038.6	309.6	1,348.2
2018	175.7	475.0	43.3	24.2	7.7	0.5	133.6	209.3	0.0	51.5	5.0	0.0	0.2	167.7	1,084.5	310.6	1,395.1
2019	170.4	516.1	43.8	23.8	7.7	0.6	111.1	187.0	0.0	49.0	5.7	0.0	0.2	172.0	1,100.4	298.2	1,398.6
2020	118.0	491.0	32.1	25.0	7.7	0.7	82.1	147.7	0.0	48.9	5.1	0.0	0.3	165.8	976.8	272.3	1,249.2
2021	164.6	535.0	42.9	25.7	7.6	0.6	86.9	163.8	0.0	47.8	6.3	0.0	0.3	170.6	1,088.3	276.6	1,365.0
2022	167.7	542.8	43.4	74.4	8.0	0.6	92.3	218.6	0.0	46.5	6.3	0.0	0.3	173.6	1,155.7	282.6	1,438.3
2023	155.4	527.9	42.4	120.2	8.1	0.5	84.5	255.6	0.0	45.6	6.4	0.0	0.3	171.1	1,161.4	270.9	1,432.3

^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 beginning in 1989.
^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
^h Losses and co-products from the production of biodiesel and fuel ethanol.
ⁱ Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.
^j Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
^k 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.
^l 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.
kWh = 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 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. <https://www.eia.gov/state/seds/>