

P E N N S Y L V A N I A
Table CT5. Commercial sector energy consumption estimates, selected years, 1960-2023, Pennsylvania

Year	Coal Thousand short tons	Natural gas ^a Billion cubic feet	Petroleum						Hydro-electric power ^{1g} Million kilowatt-hours	Biomass Wood and waste ^{g,h}	Geothermal ^g	Solar ^{g,i} Million kilowatt-hours	Electricity ^j End use ^{g,k}	Electrical system energy losses ^l	Total ^{e,g,k}
			Distillate fuel oil ^b	HGL ^c	Kerosene	Motor gasoline ^d	Residual fuel oil	Total ^e							
			Thousand barrels												
1960	3,639	56	4,363	364	241	2,084	5,514	12,566	NA	--	NA	7,125	--	--	--
1965	2,403	68	4,935	436	240	2,585	5,899	14,096	NA	--	NA	9,417	--	--	--
1970	1,594	99	5,431	612	294	2,455	5,254	14,045	NA	--	NA	13,435	--	--	--
1975	1,308	99	5,491	682	177	1,310	3,630	11,290	NA	--	NA	18,608	--	--	--
1980	1,239	118	5,858	514	193	313	1,521	8,399	NA	--	NA	21,746	--	--	--
1985	993	115	5,508	744	359	448	1,414	8,472	NA	--	NA	24,580	--	--	--
1990	1,046	126	6,640	819	150	701	794	9,104	0	--	(s)	30,198	--	--	--
1995	1,034	144	6,334	999	528	88	1,221	9,170	0	--	(s)	35,542	--	--	--
2000	660	145	5,495	1,452	407	146	634	8,135	0	--	(s)	42,988	--	--	--
2005	573	145	6,124	1,427	460	90	626	8,727	0	--	(s)	45,782	--	--	--
2006	568	130	5,703	1,584	420	91	287	8,084	0	--	(s)	45,624	--	--	--
2007	645	146	4,920	1,736	186	91	389	7,322	0	--	(s)	47,531	--	--	--
2008	203	145	6,155	1,681	58	91	241	8,226	0	--	(s)	47,347	--	--	--
2009	194	144	4,160	1,784	90	91	245	6,369	0	--	3	46,411	--	--	--
2010	184	142	4,091	1,784	133	90	91	6,189	0	--	30	47,366	--	--	--
2011	170	141	3,647	2,089	35	90	40	5,900	0	--	74	43,536	--	--	--
2012	131	127	2,962	1,679	12	89	26	4,767	0	--	95	42,920	--	--	--
2013	119	149	3,214	1,980	10	92	11	5,306	0	--	102	43,145	--	--	--
2014	117	160	3,443	2,143	37	88	13	5,723	0	--	113	43,348	--	--	--
2015	75	152	3,257	2,038	25	2,765	9	8,094	0	--	113	43,745	--	--	--
2016	39	143	2,653	2,118	39	2,786	20	7,616	0	--	123	43,535	--	--	--
2017	25	146	3,110	1,881	25	2,831	1	7,848	0	--	144	42,623	--	--	--
2018	14	165	3,530	2,189	32	2,878	1	8,629	0	--	155	43,222	--	--	--
2019	12	162	3,463	2,088	38	2,897	0	8,486	0	--	169	40,143	--	--	--
2020	9	148	2,381	2,074	31	2,919	0	7,405	0	--	195	35,381	--	--	--
2021	7	154	3,157	2,178	29	2,953	(s)	8,318	0	--	214	36,988	--	--	--
2022	3	167	3,252	2,109	27	3,036	(s)	8,424	0	--	239	37,219	--	--	--
2023	2	158	3,053	1,894	47	3,042	(s)	8,036	0	--	269	35,802	--	--	--

Trillion Btu																
1960	90.0	58.1	25.4	1.4	1.4	10.9	34.7	73.8	NA	0.5	NA	NA	24.3	246.7	49.0	295.7
1965	58.5	70.1	28.7	1.7	1.4	13.6	37.1	82.4	NA	0.4	NA	NA	32.1	243.6	63.2	306.8
1970	37.5	102.6	31.6	2.3	1.7	12.9	33.0	81.6	NA	0.4	NA	NA	45.8	267.9	93.9	361.8
1975	29.4	101.5	32.0	2.6	1.0	6.9	22.8	65.3	NA	0.4	NA	NA	63.5	260.1	129.6	389.7
1980	28.7	121.1	34.1	2.0	1.1	1.6	9.6	48.4	NA	1.3	NA	NA	74.2	273.2	157.8	431.0
1985	23.6	119.3	32.1	2.9	2.0	2.4	8.9	48.2	NA	1.2	NA	NA	83.9	276.0	170.4	446.5
1990	26.3	130.6	38.7	3.1	0.9	3.7	5.0	51.3	0.0	2.8	(s)	(s)	103.0	314.1	225.2	528.3
1995	25.7	148.8	38.9	3.8	3.0	0.5	7.7	51.8	0.0	7.1	0.1	(s)	121.3	354.8	273.2	628.0
2000	17.4	150.4	32.0	5.6	2.3	0.8	4.0	44.6	0.0	6.1	0.2	(s)	146.7	365.3	336.7	702.1
2005	14.4	150.8	35.6	5.5	2.6	0.5	3.9	48.1	0.0	4.6	0.5	(s)	156.2	374.7	343.5	718.2
2006	14.3	135.4	33.1	6.1	2.4	0.5	1.8	43.8	0.0	4.4	0.5	(s)	155.7	354.0	336.1	690.1
2007	16.2	151.5	28.5	6.7	1.1	0.5	2.4	39.1	0.0	4.5	0.5	(s)	162.2	374.0	343.1	717.1
2008	5.2	150.2	35.6	6.5	0.3	0.5	1.5	44.3	0.0	4.7	0.6	(s)	161.5	366.5	343.7	710.3
2009	5.0	149.8	24.0	6.9	0.5	0.5	1.5	33.4	0.0	5.5	0.6	(s)	158.4	352.7	324.6	677.3
2010	4.7	146.9	23.6	6.9	0.8	0.5	0.6	32.3	0.0	5.5	0.7	0.1	161.6	351.8	327.2	679.0
2011	4.3	146.8	21.0	8.0	0.2	0.5	0.3	30.0	0.0	5.3	0.9	0.3	148.5	336.1	296.0	632.1
2012	3.3	132.5	17.1	6.4	0.1	0.5	0.2	24.2	0.0	5.0	0.8	0.3	146.4	312.6	291.3	604.0
2013	3.1	156.6	R 18.6	7.6	0.1	0.5	0.1	R 26.8	0.0	5.4	0.8	0.3	147.2	R 340.2	290.7	R 630.9
2014	3.1	167.7	R 19.9	8.2	0.2	0.4	0.1	28.8	0.0	R 5.8	0.8	0.4	147.9	R 354.5	291.3	R 645.8
2015	2.0	159.4	18.8	7.8	0.1	14.0	0.1	40.8	0.0	R 7.1	0.8	0.4	149.3	R 359.8	290.7	R 650.4
2016	1.0	148.9	15.3	8.1	0.2	14.1	0.1	R 37.9	0.0	R 6.7	0.8	0.4	148.5	R 344.2	288.1	R 632.3
2017	0.6	152.2	R 18.0	7.2	0.1	14.3	(s)	39.6	0.0	R 6.8	0.8	0.5	145.4	R 346.1	275.6	R 621.6
2018	0.4	171.6	R 20.4	8.4	0.2	14.5	(s)	43.5	0.0	R 6.8	0.8	0.5	147.5	R 371.1	273.1	R 644.2
2019	0.3	168.0	R 20.0	8.0	0.2	14.6	0.0	R 42.9	0.0	R 6.3	0.8	0.6	137.0	R 355.9	237.4	R 593.2
2020	0.2	154.0	13.7	8.0	0.2	14.7	0.0	36.6	0.0	R 7.3	0.8	0.7	120.7	R 320.4	198.2	R 518.7
2021	0.2	160.4	18.2	8.4	0.2	14.9	(s)	R 41.7	0.0	7.2	0.8	0.7	126.2	337.2	204.6	541.8
2022	0.1	173.2	R 18.8	8.1	0.2	15.3	(s)	42.3	0.0	R 9.0	0.8	0.8	127.0	R 353.1	R 206.7	R 559.8
2023	(s)	163.6	17.6	7.3	0.3	15.4	(s)	40.5	0.0	8.9	0.8	0.9	122.2	336.4	193.4	529.8

^a Includes supplemental gaseous fuels that are commingled with natural gas.
^b Beginning in 2013, includes biodiesel blended into distillate fuel oil.
^c Hydrocarbon gas liquids, assumed to be propane only.
^d 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.
^e Includes small amounts of petroleum coke and, beginning in 2021 other petroleum products (biofuels product supplied), not shown separately.
^f Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.
^g There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
^h Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
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 commercial 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.
 -- = 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 commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. · 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. <https://www.eia.gov/state/seds/>