

Table CT3. Total end-use sector energy consumption estimates, selected years, 1960-2023, Pennsylvania

Year	Coal Thousand short tons	Natural gas ^a Billion cubic feet	Petroleum							Hydro-electric power ^{g,h} Million kilowatt-hours	Biomass		Geo-thermal ^h	Solar ^{h,k}	Electricity ^l Million kilowatt-hours	End use ^{h,m}	Electrical system losses ⁿ	Total ^{h,m}
			Distillate fuel oil ^b	HGL ^c	Jet fuel ^d	Motor gasoline ^e	Residual fuel oil	Other ^f	Total		Wood and waste ^{h,i}	Losses and co-products ^j						
1960	42,584	516	45,772	2,334	1,036	80,104	40,211	24,318	193,776	16	--	--	--	39,217	--	--	--	
1970	39,433	763	59,530	4,754	9,083	101,718	37,934	29,116	242,135	12	--	--	--	75,620	--	--	--	
1980	23,445	773	66,364	7,255	10,148	107,925	17,872	27,191	236,754	1	--	--	--	99,744	--	--	--	
1990	15,854	641	57,522	6,313	12,042	107,467	12,112	30,035	225,492	0	--	--	--	114,751	--	--	--	
2000	11,250	682	65,971	7,115	19,009	118,034	7,327	30,346	247,802	0	--	--	--	133,845	--	--	--	
2005	10,580	611	70,491	12,209	16,826	123,808	7,141	34,211	264,687	0	--	--	--	148,273	--	--	--	
2006	10,219	559	70,597	13,033	16,465	122,702	6,181	33,284	262,262	0	--	--	--	146,150	--	--	--	
2007	9,981	608	69,379	13,307	15,503	123,970	5,108	31,760	259,026	0	--	--	--	151,573	--	--	--	
2008	9,338	609	75,885	15,667	14,435	120,652	4,822	28,768	260,229	0	--	--	--	150,401	--	--	--	
2009	6,211	599	57,747	15,461	12,476	122,112	3,392	28,114	239,302	0	--	--	--	143,747	--	--	--	
2010	7,682	634	60,835	14,950	12,268	122,653	1,568	R 26,489	R 238,763	0	--	--	--	148,964	--	--	--	
2011	7,388	659	62,199	15,444	12,085	119,726	1,184	R 23,897	R 234,536	0	--	--	--	148,757	--	--	--	
2012	7,003	644	61,397	12,080	11,977	118,610	1,423	R 19,675	R 225,162	0	--	--	--	144,710	--	--	--	
2013	8,027	759	63,076	12,897	12,349	119,409	1,154	R 21,745	R 230,630	0	--	--	--	146,254	--	--	--	
2014	8,173	856	67,511	13,694	12,235	117,470	659	R 22,778	R 234,346	0	--	--	--	146,688	--	--	--	
2015	7,642	818	64,399	13,077	12,217	117,027	428	R 23,624	R 230,772	0	--	--	--	146,344	--	--	--	
2016	5,857	800	56,168	12,933	12,409	117,887	563	R 22,987	R 222,947	0	--	--	--	145,328	--	--	--	
2017	6,036	824	57,240	12,890	12,811	118,831	292	R 23,482	R 225,546	0	--	--	--	142,991	--	--	--	
2018	6,237	922	62,608	14,036	R 13,152	115,478	279	R 22,193	R 227,746	0	--	--	--	148,977	--	--	--	
2019	6,014	946	59,899	14,570	R 13,723	115,994	362	R 18,634	R 223,182	0	--	--	--	145,580	--	--	--	
2020	4,165	889	53,657	13,494	R 7,958	99,001	220	R 13,928	R 188,258	0	--	--	--	139,721	--	--	--	
2021	5,767	949	59,621	13,875	R 9,294	107,361	319	R 15,223	R 205,693	0	--	--	--	143,340	--	--	--	
2022	5,891	985	R 61,157	31,359	R 9,998	105,560	327	R 16,050	R 224,451	0	--	--	--	145,045	--	--	--	
2023	5,457	926	59,130	47,471	11,067	105,257	272	15,008	238,204	0	--	--	--	138,711	--	--	--	

Trillion Btu

1960	1,107.2	533.9	266.6	8.9	5.7	420.8	252.8	145.9	1,100.8	0.1	46.5	NA	NA	NA	133.8	2,922.2	269.8	3,192.0
1970	1,018.8	788.2	346.8	17.8	51.4	534.3	238.5	175.7	1,364.4	(s)	53.2	NA	NA	NA	258.0	3,482.6	528.5	4,011.2
1980	609.4	789.9	386.6	26.2	57.4	566.9	112.4	163.7	1,313.1	(s)	129.2	NA	NA	NA	340.3	3,178.7	724.0	3,902.7
1990	415.0	666.7	335.1	23.0	68.2	564.5	76.1	183.9	1,250.8	0.0	52.5	0.0	0.2	0.4	391.5	2,777.0	855.9	3,632.9
2000	297.5	706.2	383.9	26.6	107.8	613.9	46.1	185.5	1,363.7	0.0	57.7	0.0	0.5	0.4	456.7	2,882.4	1,048.5	3,930.8
2005	265.9	635.7	410.1	44.2	95.4	642.8	44.9	211.0	1,448.4	0.0	52.6	(s)	1.0	0.4	505.9	R 2,910.4	1,112.5	R 4,022.9
2006	256.2	580.4	409.7	47.0	93.4	636.2	38.9	204.9	1,430.0	0.0	48.3	(s)	1.1	0.5	498.7	R 2,816.3	1,076.7	R 3,893.0
2007	250.3	631.9	401.3	48.0	87.9	637.5	32.1	195.7	1,402.4	0.0	50.2	(s)	1.3	0.5	517.2	R 2,855.3	1,094.1	R 3,949.4
2008	232.5	632.6	438.6	56.2	81.8	616.1	30.3	177.5	1,400.5	0.0	51.9	(s)	1.5	0.6	513.2	R 2,834.1	1,091.9	R 3,926.1
2009	152.9	623.0	333.6	55.2	70.7	621.5	21.3	173.9	1,276.3	0.0	58.5	(s)	1.8	0.7	490.5	2,603.5	1,005.4	3,608.9
2010	190.9	657.1	351.3	57.4	69.6	621.5	9.9	R 163.9	R 1,273.5	0.0	69.5	5.4	2.0	0.9	508.3	R 2,707.5	1,029.0	R 3,736.5
2011	184.6	685.5	R 358.8	59.3	68.5	606.2	7.4	R 147.5	R 1,247.8	0.0	82.6	4.7	2.2	1.2	507.6	R 2,716.2	1,011.4	R 3,727.6
2012	188.9	672.5	R 354.0	46.4	67.9	600.4	8.9	R 122.1	R 1,199.8	0.0	78.2	4.7	2.2	1.4	493.7	R 2,641.5	982.3	R 3,623.8
2013	220.3	797.4	R 363.6	49.5	70.0	604.2	7.3	R 133.4	R 1,227.9	0.0	92.6	5.7	2.2	1.5	499.0	R 2,846.6	985.5	R 3,832.1
2014	224.9	899.8	R 389.2	52.6	69.4	594.3	4.1	R 140.3	R 1,249.8	0.0	R 88.3	5.3	2.2	1.6	500.5	2,972.4	985.7	R 3,958.1
2015	209.6	857.2	R 371.2	50.2	69.3	591.8	2.7	R 146.0	R 1,231.1	0.0	R 95.1	5.1	2.2	1.7	499.3	R 2,901.3	972.4	R 3,873.6
2016	160.8	834.2	R 323.5	49.6	70.4	595.9	3.5	144.4	R 1,187.4	0.0	R 89.6	5.6	2.2	1.8	495.9	R 2,777.4	961.6	R 3,739.0
2017	167.8	859.3	R 329.7	49.5	72.6	600.5	1.8	147.5	R 1,201.6	0.0	R 89.4	5.2	2.2	2.0	487.9	R 2,815.3	924.4	R 3,739.8
2018	176.1	958.2	R 360.8	53.9	74.6	583.6	1.8	139.5	R 1,214.1	0.0	R 93.7	5.0	2.2	2.2	508.3	R 2,959.7	941.4	R 3,901.1
2019	170.7	982.7	R 345.1	55.9	77.8	586.0	2.3	R 117.1	R 1,184.2	0.0	R 88.8	5.7	2.2	2.5	496.7	R 2,933.5	860.8	R 3,794.4
2020	118.2	924.6	R 309.0	51.8	45.1	500.2	1.4	R 87.3	R 994.8	0.0	R 82.1	5.1	2.2	2.8	476.7	R 2,606.6	782.8	R 3,389.4
2021	164.8	866.0	R 343.8	53.3	52.7	542.2	2.0	R 95.4	R 1,089.4	0.0	R 81.8	6.3	2.2	3.0	489.1	R 2,822.5	793.0	R 3,615.5
2022	167.8	R 1,022.9	R 352.7	101.9	56.7	533.0	2.1	R 100.8	R 1,147.1	0.0	R 89.2	6.3	2.2	3.6	494.9	R 2,933.3	R 805.6	R 3,738.9
2023	155.5	959.8	340.9	145.2	62.8	531.4	1.7	94.0	1,176.0	0.0	83.1	6.4	2.2	4.3	473.3	2,858.2	749.3	3,607.5

^a Includes supplemental gaseous fuels that are commingled with natural gas.
^b Beginning in 2009, includes biodiesel blended into distillate fuel oil. Beginning in 2011, includes renewable diesel blended into distillate fuel oil. Excludes biofuels product supplied.
^c Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.
^d Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other petroleum."
^e Beginning in 1993, includes fuel ethanol blended into motor gasoline.
^f Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See technical notes, Section 4.
^g Conventional hydroelectric power. For 1960 through 1989, includes hydroelectric pumped-storage, which cannot be separately identified.
^h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.
ⁱ Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
^j Losses and co-products from the production of biodiesel and fuel ethanol.
^k Solar thermal and photovoltaic energy.

^l Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
^m 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 the commercial and industrial sectors. Beginning in 2021, adjusted for the double-counting of biofuels product supplied.
ⁿ 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: Total end-use sector consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. Totals may not equal sum of components due to independent rounding. 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/>