

**Table CT1. Energy Consumption Estimates for Selected Energy Sources in Physical Units, Selected Years, 1960-2020, Pennsylvania**

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum						Nuclear Electric Power Million Kilowatthours	Hydro-electric Power <sup>g</sup> Million Kilowatthours	Fuel Ethanol <sup>h</sup> Thousand Barrels	Biodiesel Thousand Barrels	
			Distillate Fuel Oil <sup>b</sup>	HGL <sup>c</sup>	Jet Fuel <sup>d</sup>	Motor Gasoline <sup>e</sup>	Residual Fuel Oil	Other <sup>f</sup>					Total
			Thousand Barrels										Million Kilowatthours
1960	60,646	522	46,257	2,334	1,036	80,104	42,958	24,318	197,008	230	1,826	NA	NA
1965	68,911	629	54,459	3,030	3,406	85,723	43,238	29,391	219,246	313	1,329	NA	NA
1970	68,574	772	63,489	4,754	9,083	101,718	60,436	29,116	268,595	465	1,366	NA	NA
1971	65,816	802	63,171	4,895	8,552	107,336	60,724	29,540	274,219	445	779	NA	NA
1972	67,167	829	69,280	5,577	8,669	116,142	60,152	31,373	291,193	288	1,533	NA	NA
1973	72,471	783	72,139	5,808	9,225	114,856	59,253	30,781	292,063	361	1,372	NA	NA
1974	67,601	716	72,016	5,687	8,954	108,823	56,643	30,455	282,578	6,998	1,393	NA	NA
1975	67,043	654	68,017	6,077	8,548	108,765	41,631	28,111	261,149	15,869	1,576	NA	NA
1976	67,651	714	75,108	6,399	8,436	117,709	50,302	29,815	287,768	16,425	1,416	NA	NA
1977	63,539	668	78,031	6,857	8,498	120,263	59,962	29,870	303,482	17,821	1,205	NA	NA
1978	63,179	674	75,378	7,345	8,958	121,978	58,363	31,426	303,447	22,329	760	NA	NA
1979	70,374	741	76,720	8,511	9,890	116,157	46,461	30,731	288,469	18,796	1,222	NA	NA
1980	65,911	776	68,602	7,255	10,148	107,925	35,099	27,507	256,535	27,507	734	NA	NA
1981	60,535	785	59,885	7,635	9,019	104,151	29,878	22,016	232,585	14,276	660	0	NA
1982	52,472	695	52,945	7,170	8,625	102,134	20,869	22,964	214,706	16,472	1,829	0	NA
1983	53,846	644	52,872	7,210	9,152	102,680	24,104	24,746	220,764	14,718	1,170	0	NA
1984	58,648	677	58,961	8,778	10,465	102,159	22,962	26,715	230,040	21,564	1,447	0	NA
1985	56,702	626	57,887	7,577	10,126	101,979	17,799	17,799	220,558	25,190	26,232	0	NA
1986	53,103	610	57,627	8,430	9,915	104,103	23,616	26,705	230,397	39,820	1,453	0	NA
1987	55,413	636	62,774	8,398	10,530	106,628	23,878	28,492	240,699	34,982	1,132	0	NA
1988	58,799	669	63,581	6,105	11,705	110,729	22,033	30,022	244,174	37,862	705	0	NA
1989	60,497	689	64,822	6,967	9,661	108,915	23,239	30,738	244,341	39,166	1,440	0	NA
1990	61,019	656	59,661	6,313	12,042	107,467	18,762	31,040	235,286	57,787	2,869	0	NA
1991	59,106	645	57,530	7,585	11,355	107,081	16,715	28,121	228,386	57,476	1,920	0	NA
1992	61,879	692	59,492	9,176	10,932	107,406	15,617	29,579	232,202	60,133	2,578	0	NA
1993	62,594	706	62,738	5,759	11,787	109,970	18,944	27,675	236,874	59,331	2,376	217	NA
1994	61,129	713	65,486	5,634	11,748	109,532	19,562	30,214	242,176	67,207	2,750	556	NA
1995	62,969	736	61,656	5,509	12,313	112,282	13,715	32,071	237,546	66,462	2,030	1,730	NA
1996	65,691	746	61,297	6,080	11,831	113,639	12,959	29,857	235,662	68,672	3,012	1,298	NA
1997	66,667	706	59,438	5,283	14,819	114,779	11,495	32,502	238,317	67,655	2,249	1,437	NA
1998	62,342	644	57,603	5,452	16,731	116,867	13,933	33,278	243,864	61,149	2,381	330	NA
1999	59,822	689	62,519	5,677	15,943	117,420	11,872	30,308	243,739	71,127	1,947	283	NA
2000	63,516	703	68,564	7,115	19,009	118,034	12,071	30,372	255,164	73,771	2,290	319	NA
2001	60,161	635	69,446	6,573	18,877	120,458	9,721	34,326	259,400	73,731	1,650	410	15
2002	60,583	676	69,282	6,974	17,006	122,851	7,834	31,272	255,219	76,089	2,211	137	23
2003	61,992	690	68,326	11,231	17,473	122,575	11,456	32,814	263,875	74,361	3,346	163	19
2004	62,797	696	71,869	11,037	16,381	124,468	11,859	34,096	269,710	77,459	3,155	2,148	38
2005	65,044	692	71,764	12,209	16,826	123,808	14,200	34,745	273,552	76,289	2,232	1,367	129
2006	66,155	660	71,248	13,033	16,465	122,702	7,131	33,463	264,041	75,298	2,844	3,015	370
2007	65,693	752	70,216	13,307	15,503	123,970	6,623	31,760	261,379	77,376	2,236	4,047	502
2008	63,333	750	76,679	15,667	14,435	120,652	5,523	28,904	261,861	78,658	2,549	8,642	431
2009	55,063	810	58,339	15,461	12,476	122,112	4,168	28,254	240,810	77,328	2,683	10,726	457
2010	58,570	879	61,570	14,950	R 12,268	122,653	1,976	R 26,446	R 239,863	77,828	2,332	11,469	369
2011	54,790	966	62,870	15,263	R 12,085	119,726	1,415	R 23,862	R 235,222	76,147	3,217	11,362	1,257
2012	48,606	1,038	61,899	11,718	R 11,977	118,610	1,529	R 19,647	R 225,380	75,174	2,242	11,519	1,238
2013	50,019	1,122	63,647	12,353	R 12,349	119,409	1,251	R 21,709	R 230,719	78,714	2,525	11,770	1,273
2014	46,481	1,244	68,514	12,969	R 12,235	117,470	887	R 22,763	R 234,838	78,715	2,641	11,401	1,370
2015	39,033	1,256	65,441	12,244	R 12,217	117,027	428	R 23,604	R 230,962	80,517	2,604	11,237	1,309
2016	33,385	1,301	56,753	12,100	R 12,409	117,887	563	R 22,967	R 222,678	82,924	2,375	11,467	1,426
2017	30,420	1,350	57,758	12,057	R 12,811	118,831	292	R 23,507	R 225,256	83,200	3,123	11,754	1,534
2018	29,740	1,460	63,960	13,203	R 13,158	115,478	288	R 22,239	R 228,326	83,477	4,262	11,627	1,279
2019	25,494	R 1,618	60,277	13,737	R 13,685	R 115,994	369	R 18,680	R 222,742	83,230	3,503	11,708	1,206
2020	17,788	1,718	53,824	12,661	7,900	99,001	228	14,028	187,642	76,521	2,672	9,977	1,076

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil.  
<sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.  
<sup>d</sup> 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."  
<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.  
<sup>f</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.  
<sup>g</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.  
<sup>h</sup> Includes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate.  
 NA = Not available.  
 Where shown, R = Revised data and (s) = Value less than 0.5.  
 Notes: 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>.  
 Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

**P E N N S Y L V A N I A**  
**Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2020, Pennsylvania**  
 (Trillion Btu)

Year	Fossil Fuels										Fossil Fuels (as commingled)			
	Coal	Natural Gas excluding Supplemental Gaseous Fuels <sup>a</sup>	Petroleum							Total	Total	Natural Gas including Supplemental Gaseous Fuels <sup>a</sup>	Distillate Fuel Oil including Biodiesel <sup>a</sup>	Motor Gasoline including Fuel Ethanol <sup>a</sup>
			Distillate Fuel Oil excluding Biodiesel <sup>a</sup>	HGL <sup>b</sup>	Jet Fuel <sup>c</sup>	Motor Gasoline excluding Fuel Ethanol <sup>a</sup>	Residual Fuel Oil	Other <sup>d</sup>	Total					
1960	1,530.5	540.1	269.4	8.9	5.7	420.8	270.1	145.9	1,120.9	3,191.5	540.1	269.4	420.8	
1965	1,751.3	652.9	317.2	11.6	19.2	450.3	271.8	175.8	1,245.9	3,650.1	652.9	317.2	450.3	
1970	1,699.0	797.9	369.8	17.8	51.4	534.3	380.0	175.7	1,528.9	4,025.8	797.9	369.8	534.3	
1971	1,619.6	828.6	368.0	18.3	48.4	563.8	381.8	177.9	1,558.2	4,006.4	828.6	368.0	563.8	
1972	1,662.3	856.3	403.6	20.7	49.0	610.1	378.2	188.9	1,650.5	4,169.1	856.3	403.6	610.1	
1973	1,798.6	811.5	420.2	21.5	52.2	603.3	372.5	185.8	1,655.5	4,265.6	811.5	420.2	603.3	
1974	1,661.4	732.7	419.5	21.0	50.7	571.6	356.1	183.8	1,602.6	3,996.7	732.7	419.5	571.6	
1975	1,646.7	670.1	396.2	22.3	48.4	571.3	261.7	169.4	1,469.3	3,786.1	670.1	396.2	571.3	
1976	1,682.8	731.4	437.5	23.4	47.7	618.3	316.3	180.0	1,623.3	4,037.4	731.4	437.5	618.3	
1977	1,578.0	682.4	454.5	24.9	48.1	631.7	377.0	180.8	1,717.0	3,977.3	682.4	454.5	631.7	
1978	1,572.5	688.3	439.1	26.4	50.7	640.7	366.9	189.8	1,713.6	3,974.4	688.3	439.1	640.7	
1979	1,756.3	756.1	446.9	30.6	56.0	610.2	292.1	185.6	1,621.4	4,133.7	756.1	446.9	610.2	
1980	1,636.1	789.6	399.6	26.2	57.4	566.9	220.7	165.6	1,436.4	3,862.0	789.6	399.6	566.9	
1981	1,495.9	791.2	348.8	27.4	51.0	547.1	187.8	135.5	1,297.7	3,584.8	802.0	348.8	547.1	
1982	1,291.5	708.3	308.4	25.6	48.8	536.5	131.2	141.1	1,191.6	3,191.4	714.1	308.4	536.5	
1983	1,337.5	658.7	308.0	25.8	51.8	539.4	151.5	150.7	1,227.1	3,223.3	662.6	308.0	539.4	
1984	1,462.3	699.6	343.4	31.3	59.2	536.6	144.4	161.1	1,276.0	3,438.0	699.7	343.4	536.6	
1985	1,409.1	646.7	337.2	27.2	57.3	535.7	111.9	153.9	1,223.1	3,278.9	646.9	337.2	535.7	
1986	1,318.4	631.7	335.7	30.2	56.1	546.9	148.5	164.2	1,281.5	3,231.6	631.9	335.7	546.9	
1987	1,381.1	658.8	365.7	30.4	59.6	560.1	150.1	174.6	1,340.5	3,380.4	659.1	365.7	560.1	
1988	1,466.2	692.5	370.4	22.4	66.2	581.7	138.5	182.4	1,361.5	3,520.2	692.7	370.4	581.7	
1989	1,490.9	714.7	377.6	25.6	54.6	572.1	146.1	187.1	1,363.2	3,568.8	715.0	377.6	572.1	
1990	1,469.7	680.5	347.5	23.0	68.2	564.5	118.0	189.9	1,311.1	3,461.3	680.7	347.5	564.5	
1991	1,425.2	666.9	335.1	27.5	64.3	562.5	105.1	172.2	1,266.7	3,358.9	667.2	335.1	562.5	
1992	1,473.2	717.2	346.5	33.2	61.9	564.2	98.2	179.8	1,283.8	3,474.1	717.3	346.5	564.2	
1993	1,487.0	731.7	365.5	21.2	66.7	573.0	119.1	168.9	1,314.3	3,533.0	731.8	365.5	573.0	
1994	1,439.6	738.9	381.1	21.0	66.5	569.2	123.0	185.1	1,345.8	3,524.4	739.1	381.1	571.1	
1995	1,484.1	761.4	358.8	20.5	69.8	578.3	86.2	196.3	1,310.0	3,555.6	761.5	358.8	584.3	
1996	1,543.7	770.9	356.7	22.6	67.1	587.7	81.5	182.4	1,297.9	3,612.5	771.2	356.7	592.2	
1997	1,569.6	730.6	345.9	19.8	84.0	592.4	72.3	198.0	1,312.5	3,612.8	730.8	345.9	597.4	
1998	1,466.0	667.2	335.2	20.5	94.9	606.9	87.6	203.2	1,348.3	3,481.5	667.2	335.2	608.1	
1999	1,415.0	713.4	363.8	21.3	90.4	609.8	74.6	183.3	1,343.3	3,471.7	713.6	363.8	610.8	
2000	1,508.1	727.2	399.0	26.6	107.8	612.8	75.9	185.6	1,407.6	3,642.9	727.5	399.0	613.9	
2001	1,392.2	669.0	404.1	24.3	107.0	625.1	61.1	209.8	1,431.4	3,492.5	669.1	404.1	626.5	
2002	1,457.3	700.5	403.1	25.9	96.4	638.2	49.3	190.6	1,403.6	3,561.4	700.6	403.1	638.7	
2003	1,462.0	717.5	397.6	41.1	99.1	636.5	72.0	200.7	1,446.9	3,626.4	717.6	397.6	637.0	
2004	1,474.3	723.2	418.1	40.4	92.9	639.3	74.6	210.0	1,475.2	3,672.7	723.3	418.1	646.7	
2005	1,490.8	719.1	417.5	44.2	95.4	638.1	89.3	214.1	1,498.5	3,708.5	719.3	417.5	642.8	
2006	1,499.3	684.7	413.5	47.0	93.4	625.8	44.8	205.9	1,430.3	3,614.3	684.8	413.5	636.2	
2007	1,491.9	780.1	406.1	48.0	87.9	623.4	41.6	195.7	1,402.8	3,674.7	780.2	406.1	637.5	
2008	1,421.1	778.3	443.2	56.2	81.8	586.1	34.7	178.3	1,380.3	3,579.7	778.4	443.2	616.1	
2009	1,223.9	839.5	334.6	55.2	70.7	584.4	26.2	174.7	1,245.9	3,309.2	839.7	337.0	621.5	
2010	1,310.7	909.3	353.6	57.4	R 69.6	581.7	12.4	163.7	R 1,238.4	R 3,458.3	909.3	353.6	621.5	
2011	1,213.0	1,000.5	356.0	58.6	R 68.5	566.8	8.9	147.3	R 1,206.1	R 3,419.6	1,000.5	362.8	606.2	
2012	1,093.2	1,079.5	350.3	45.0	R 67.9	560.5	9.6	122.0	R 1,155.3	R 3,327.9	1,079.5	357.0	600.4	
2013	1,126.1	1,175.5	360.0	47.4	R 70.0	563.4	7.9	R 133.2	R 1,181.8	R 3,483.5	1,175.5	366.8	604.2	
2014	1,039.2	1,304.1	387.5	49.8	R 69.4	554.7	5.6	R 140.2	R 1,207.2	R 3,550.4	1,304.1	394.8	594.3	
2015	878.8	1,313.4	370.1	47.0	R 69.3	552.8	2.7	R 145.8	R 1,187.7	R 3,379.8	1,313.4	377.1	591.8	
2016	734.8	1,354.3	319.1	46.5	R 70.4	556.1	3.5	R 144.3	R 1,139.9	R 3,229.0	1,354.3	326.7	595.9	
2017	669.5	1,404.2	324.3	46.3	R 72.6	559.6	1.8	R 147.6	R 1,152.3	R 3,226.1	1,404.3	332.5	600.5	
2018	644.1	1,515.9	361.5	50.7	R 74.6	543.1	1.8	R 139.7	R 1,171.4	R 3,331.4	1,516.0	368.3	583.6	
2019	568.8	R 1,679.5	340.7	52.7	R 77.6	545.2	2.3	R 117.3	R 1,135.9	R 3,384.2	R 1,679.5	347.1	586.0	
2020	374.3	1,783.0	304.0	48.6	44.8	465.5	1.4	87.9	952.3	3,109.6	1,783.0	309.8	500.2	

<sup>a</sup> Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable Energy."

<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>c</sup> 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."

<sup>d</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: 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>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

**Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2020, Pennsylvania (Continued)**  
(Trillion Btu)

Year	Nuclear Electric Power	Hydro-electric Power <sup>e,f</sup>	Renewable Energy									Net Interstate Flow of Electricity <sup>k</sup>	Electricity Net Imports <sup>l</sup>	Total <sup>f</sup>
			Biomass					Geo-thermal <sup>f</sup>	Solar <sup>f,j</sup>	Wind	Total <sup>f</sup>			
			Wood and Waste <sup>f,g</sup>	Fuel Ethanol <sup>h</sup>	Biodiesel	Losses and Co-products <sup>i</sup>	Total <sup>f</sup>							
1960	2.7	19.6	46.5	NA	NA	NA	46.5	0.0	NA	NA	66.1	-7.0	0.0	3,253.2
1965	3.7	13.9	47.4	NA	NA	NA	47.4	0.0	NA	NA	61.3	16.9	0.0	3,732.0
1970	5.1	14.3	53.2	NA	NA	NA	53.2	0.0	NA	NA	67.5	8.5	0.0	4,106.9
1971	4.8	8.2	52.4	NA	NA	NA	52.4	0.0	NA	NA	60.6	-26.8	0.0	4,045.0
1972	3.1	15.9	54.2	NA	NA	NA	54.2	0.0	NA	NA	70.1	-54.6	0.0	4,187.8
1973	3.9	14.3	56.6	NA	NA	NA	56.6	0.0	NA	NA	70.9	-46.1	0.0	4,294.4
1974	78.1	14.5	57.5	NA	NA	NA	57.5	0.0	NA	NA	72.1	-22.9	0.0	4,124.0
1975	174.8	16.4	57.5	NA	NA	NA	57.5	0.0	NA	NA	73.9	-120.9	0.0	3,913.9
1976	181.4	14.7	66.5	NA	NA	NA	66.5	0.0	NA	NA	81.2	-135.9	0.0	4,164.2
1977	191.9	12.6	71.7	NA	NA	NA	71.7	0.0	NA	NA	84.3	-126.4	0.0	4,127.2
1978	244.3	7.9	82.7	NA	NA	NA	82.7	0.0	NA	NA	90.5	-180.8	0.0	4,128.4
1979	204.5	12.7	94.2	NA	NA	NA	94.2	0.0	NA	NA	106.8	-195.4	0.0	4,249.7
1980	131.9	7.6	129.2	NA	NA	NA	129.2	0.0	NA	NA	136.8	-134.4	0.0	3,996.3
1981	157.5	6.9	140.8	0.0	NA	0.0	140.8	0.0	NA	NA	147.7	-80.1	0.0	3,809.8
1982	182.4	19.1	130.5	0.0	NA	0.0	130.5	0.0	NA	NA	149.6	-160.1	0.0	3,363.3
1983	160.5	12.3	154.8	0.0	NA	0.0	154.8	0.0	NA	0.0	167.1	-173.7	0.0	3,377.2
1984	233.8	15.1	136.9	0.0	NA	0.0	136.9	0.0	0.0	0.0	152.0	-219.1	0.0	3,604.7
1985	278.6	10.1	138.1	0.0	NA	0.0	138.1	0.0	0.0	0.0	148.2	-271.7	0.0	3,434.1
1986	421.3	15.2	102.0	0.0	NA	0.0	102.0	0.0	0.0	0.0	117.2	-391.8	0.0	3,378.3
1987	365.3	11.8	96.2	0.0	NA	0.0	96.2	0.0	0.0	0.0	108.0	-301.7	0.0	3,552.0
1988	401.4	7.3	100.9	0.0	NA	0.0	100.9	0.0	0.0	0.0	108.2	-315.9	0.0	3,713.9
1989	414.5	15.0	82.5	0.0	NA	0.0	82.5	0.2	0.4	0.0	98.1	-342.5	0.0	3,738.8
1990	611.5	29.8	61.4	0.0	NA	0.0	61.4	0.2	0.4	0.0	91.9	-517.5	0.0	3,647.1
1991	602.6	20.0	69.5	0.0	NA	0.0	69.5	0.2	0.5	0.0	90.2	-467.0	0.0	3,584.6
1992	629.6	26.7	80.2	0.0	NA	0.0	80.2	0.3	0.5	0.0	107.6	-526.6	0.0	3,684.8
1993	623.2	24.5	79.5	0.8	NA	0.0	80.3	0.3	0.5	0.0	105.5	-506.1	0.0	3,755.6
1994	702.4	28.4	83.0	1.9	NA	0.0	84.9	0.3	0.5	0.0	114.0	-511.7	0.5	3,829.6
1995	698.3	20.9	91.5	6.0	NA	0.0	97.5	0.3	0.5	0.0	119.3	-484.8	0.1	3,888.5
1996	721.3	31.1	99.0	4.5	NA	0.0	103.6	0.4	0.5	0.0	135.6	-546.4	0.7	3,923.6
1997	710.0	23.0	90.8	5.0	NA	0.0	95.7	0.4	0.5	0.0	119.6	-553.2	0.4	3,889.6
1998	641.5	24.3	85.3	1.1	NA	0.0	86.4	0.5	0.5	0.0	111.7	-503.2	-0.6	3,730.9
1999	743.3	19.9	88.4	1.0	NA	0.0	89.3	0.5	0.5	0.0	110.2	-554.3	-0.1	3,770.8
2000	769.4	23.4	89.2	1.1	NA	0.0	90.3	0.5	0.4	0.1	114.7	-584.9	0.0	3,942.1
2001	770.0	17.0	77.6	1.4	(s)	0.1	79.1	0.5	0.4	0.1	97.2	-510.1	0.0	3,849.7
2002	794.5	22.5	72.5	0.5	(s)	0.1	73.1	0.6	0.4	0.6	97.2	-541.7	-0.3	3,911.1
2003	775.0	33.9	73.8	0.6	(s)	0.1	74.4	0.8	0.4	1.1	110.6	-550.6	-0.3	3,961.1
2004	807.7	31.6	74.4	7.5	(s)	0.2	82.1	0.9	0.4	3.1	118.0	-589.5	-0.6	4,008.4
2005	796.2	22.3	77.6	4.7	(s)	0.7	83.0	1.0	0.4	2.8	109.6	-577.9	-1.0	4,035.4
2006	785.7	28.2	73.8	10.5	(s)	2.0	86.2	1.1	0.5	3.6	119.6	-610.5	-0.3	3,908.9
2007	811.6	22.1	76.6	14.0	(s)	2.7	93.3	1.3	0.5	4.6	121.9	-645.4	0.2	3,963.1
2008	822.1	25.1	80.5	30.0	(s)	2.3	112.8	1.5	0.6	7.2	147.2	-608.5	1.8	3,942.3
2009	808.8	26.2	87.1	37.1	(s)	2.4	126.7	1.8	0.7	10.5	165.9	-658.8	0.6	3,625.6
2010	813.5	22.8	99.6	39.8	2.0	5.4	146.7	2.0	R 1.5	18.1	191.0	-709.2	1.4	R 3,755.0
2011	796.8	31.3	111.3	39.4	6.7	4.7	162.1	2.2	R 2.6	17.4	R 215.6	-683.5	1.5	R 3,750.0
2012	787.8	21.3	105.8	40.0	6.6	4.7	157.1	2.2	R 3.2	20.3	R 204.1	-682.0	4.6	R 3,642.3
2013	822.5	24.1	120.0	40.8	6.8	5.7	173.4	2.2	3.5	32.0	R 235.2	-688.7	3.8	R 3,856.2
2014	823.3	25.1	115.4	39.6	7.3	R 5.3	167.6	2.2	3.7	33.9	R 232.5	-624.4	1.9	R 3,983.7
2015	842.0	24.3	122.9	39.0	7.0	5.1	R 174.0	2.2	3.8	31.2	R 235.5	-561.6	1.8	R 3,897.6
2016	867.3	21.9	117.7	39.8	7.6	R 5.6	R 170.7	2.2	4.1	32.1	R 230.9	-565.9	1.1	R 3,762.5
2017	870.2	28.8	117.5	40.9	8.2	R 5.2	R 171.8	2.2	4.7	33.1	R 240.5	-570.0	0.1	R 3,766.9
2018	872.7	38.8	121.0	40.5	6.9	R 5.0	R 173.5	2.2	5.1	32.5	R 252.0	-522.9	0.2	R 3,933.4
2019	869.1	31.2	R 113.5	40.8	6.5	R 5.7	R 166.4	2.2	5.9	28.9	R 234.6	-669.1	0.0	R 3,818.8
2020	799.0	23.4	106.8	34.7	5.8	5.1	152.3	2.2	7.2	32.9	218.0	-713.6	0.0	3,413.0

<sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

<sup>h</sup> Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

<sup>i</sup> Losses and co-products from the production of biodiesel and fuel ethanol.

<sup>j</sup> Solar thermal and photovoltaic energy.

<sup>k</sup> Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

<sup>l</sup> Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatt-hours by 3,412 Btu per kilowatt-hour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: 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>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

**P E N N S Y L V A N I A**  
**Table CT3. Total End-Use Energy Consumption Estimates, Selected Years, 1960-2020, Pennsylvania**

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum							Hydro-electric Power <sup>g,h</sup> Million Kilowatt-hours	Biomass		Geo-thermal <sup>h</sup>	Solar <sup>h,k</sup>	Electricity Retail Sales	Net Energy <sup>h,l</sup>	Electrical System Energy Losses <sup>m</sup>	Total <sup>h,j</sup>
			Distillate Fuel Oil <sup>b</sup>	HGL <sup>c</sup>	Jet Fuel <sup>d</sup>	Motor Gasoline <sup>e</sup>	Residual Fuel Oil	Other <sup>f</sup>	Total		Wood and Waste <sup>h,i</sup>	Losses and Co-products <sup>j</sup>			Million Kilowatt-hours			
															Thousand Barrels			
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	--	--	--	
2001	10,863	612	68,279	6,573	18,877	120,458	4,546	34,303	253,035	0	--	--	--	135,272	--	--	--	
2002	10,724	625	68,043	6,974	17,006	122,851	4,570	30,660	250,104	0	--	--	--	139,820	--	--	--	
2003	11,066	649	66,980	11,231	17,473	122,575	5,634	31,971	255,863	0	--	--	--	140,369	--	--	--	
2004	11,099	620	70,797	11,037	16,381	124,468	6,529	33,045	262,256	0	--	--	--	143,501	--	--	--	
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	R 12,268	R 122,653	1,568	R 26,446	R 238,720	0	--	--	--	148,964	--	--	--	
2011	7,388	659	62,199	15,263	R 12,085	R 119,726	1,184	R 23,862	R 234,321	0	--	--	--	148,757	--	--	--	
2012	7,003	644	61,397	11,718	R 11,977	R 118,610	1,423	R 19,647	R 224,772	0	--	--	--	144,710	--	--	--	
2013	8,027	759	63,076	12,353	R 12,349	R 119,409	1,154	R 21,709	R 230,051	0	--	--	--	146,254	--	--	--	
2014	8,173	856	67,511	12,969	R 12,235	R 117,470	659	R 22,763	R 233,608	0	--	--	--	146,688	--	--	--	
2015	7,642	818	64,399	12,244	R 12,217	R 117,027	428	R 23,604	R 229,919	0	--	--	--	146,344	--	--	--	
2016	5,857	800	56,168	12,100	R 12,409	R 117,887	563	R 22,965	R 222,092	0	--	--	--	145,328	--	--	--	
2017	6,036	824	57,240	12,057	R 12,811	R 118,831	292	R 23,507	R 224,738	0	--	--	--	142,991	--	--	--	
2018	6,237	922	62,608	13,203	R 13,158	R 115,478	279	R 22,239	R 226,965	0	--	--	--	148,977	--	--	--	
2019	6,014	R 946	59,899	13,737	R 13,685	R 115,994	362	R 18,680	R 222,357	0	--	--	--	145,580	--	--	--	
2020	4,165	889	53,657	12,661	7,900	99,001	220	14,028	187,467	0	--	--	--	139,721	--	--	--	

**Trillion Btu**

1960	1,107.2	533.9	266.6	8.9	5.7	420.8	252.8	145.9	1,100.8	0.2	46.5	NA	NA	NA	133.8	2,922.3	330.9	3,253.2
1970	1,018.8	788.2	346.8	17.8	51.4	534.3	238.5	175.7	1,364.4	0.1	53.2	NA	NA	NA	258.0	3,482.7	624.2	4,106.9
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	817.6	3,996.3
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	870.1	3,647.1
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	1,059.7	3,942.1
2001	285.7	645.7	397.3	24.3	107.0	626.5	28.6	209.6	1,393.3	0.0	52.5	(s)	0.5	0.4	461.5	2,839.7	1,010.0	3,849.7
2002	282.4	648.9	395.9	25.9	96.4	638.7	28.7	186.9	1,372.6	0.0	47.4	(s)	0.6	0.4	477.1	2,829.5	1,081.6	3,911.1
2003	291.6	674.7	389.8	41.1	99.1	637.0	35.4	195.6	1,398.0	0.0	49.2	(s)	0.8	0.4	478.9	2,893.5	1,067.6	3,961.1
2004	290.4	644.3	411.9	40.4	92.9	646.7	41.0	204.0	1,436.9	0.0	50.4	(s)	0.9	0.4	489.6	2,913.0	1,095.3	4,008.4
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	2,910.6	1,124.8	4,035.4
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	2,817.1	1,091.8	3,908.9
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	2,856.4	1,106.7	3,963.1
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	2,835.1	1,107.3	3,942.3
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	2,603.6	1,022.0	3,625.6
2010	190.9	657.1	351.3	57.4	R 69.6	621.5	9.9	163.7	R 1,273.3	0.0	69.5	5.4	2.0	1.4	508.3	R 2,707.8	1,047.2	R 3,755.0
2011	184.6	685.5	358.9	58.6	R 68.5	606.2	7.4	147.3	R 1,246.9	0.0	82.6	4.7	2.2	R 2.5	507.6	R 2,716.6	1,033.4	R 3,750.0
2012	188.9	672.5	354.1	45.0	R 67.9	600.4	8.9	122.0	R 1,198.3	0.0	78.2	4.7	2.2	R 3.0	493.7	R 2,641.6	1,000.7	R 3,642.3
2013	220.3	797.4	363.5	47.4	R 70.0	604.2	7.3	R 133.2	R 1,225.6	0.0	92.6	5.7	2.2	3.0	499.0	R 2,845.7	1,010.5	R 3,856.2
2014	224.9	899.8	389.1	49.8	R 69.4	594.3	4.1	R 140.2	R 1,246.9	0.0	88.5	R 5.3	2.2	3.2	500.5	R 2,971.2	1,012.5	R 3,983.7
2015	209.6	857.2	371.1	47.0	R 69.3	591.8	2.7	R 145.8	R 1,227.7	0.0	95.6	5.1	2.2	3.3	499.3	R 2,900.0	997.7	R 3,897.6
2016	160.8	834.2	323.4	46.5	R 70.4	595.9	3.5	R 144.3	R 1,183.9	0.0	90.3	R 5.6	2.2	3.5	495.9	R 2,776.4	986.1	R 3,762.5
2017	167.8	859.3	329.5	46.3	R 72.6	600.5	1.8	R 147.6	R 1,198.4	0.0	R 90.1	R 5.2	2.2	4.2	487.9	R 2,815.0	951.9	R 3,766.9
2018	176.1	958.2	360.6	50.7	R 74.6	583.6	1.8	R 139.7	R 1,211.0	0.0	94.3	R 5.0	2.2	4.7	508.3	R 2,959.7	973.7	R 3,933.4
2019	170.7	R 982.7	345.0	52.7	R 77.6	586.0	2.3	R 117.3	R 1,180.9	0.0	R 89.5	R 5.7	2.2	5.2	496.7	R 2,933.6	885.2	R 3,818.8
2020	118.2	923.8	308.8	48.6	44.8	500.2	1.4	87.9	991.7	0.0	84.6	5.1	2.2	6.0	476.7	2,608.4	804.6	3,413.0

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil.

<sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

<sup>d</sup> 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."

<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.

<sup>f</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

<sup>g</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

<sup>h</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>i</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

<sup>j</sup> Losses and co-products from the production of biodiesel and fuel ethanol.

<sup>k</sup> Solar thermal and photovoltaic energy.

<sup>l</sup> 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 net energy 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.

<sup>m</sup> 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 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>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

**Table CT4. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2020, Pennsylvania**

Year	Coal <sup>a</sup> Thousand Short Tons	Natural Gas <sup>b</sup> Billion Cubic Feet	Petroleum				Biomass Wood <sup>d</sup>	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Electricity Retail Sales	Net Energy <sup>e,g</sup>	Electrical System Energy Losses <sup>h</sup>	Total <sup>e,g</sup>
			Distillate Fuel Oil	HGL <sup>c</sup>	Kerosene	Total				Million Kilowatthours			
										Thousand Barrels			
1960	5,236	232	25,101	959	2,763	28,824	--	--	--	11,094	--	--	--
1965	3,185	256	28,391	1,151	2,753	32,294	--	--	--	14,807	--	--	--
1970	2,028	297	31,242	1,612	3,368	36,222	--	--	--	23,007	--	--	--
1975	561	273	31,587	1,799	2,023	35,409	--	--	--	27,678	--	--	--
1980	329	288	27,838	1,355	2,362	31,556	--	--	--	31,767	--	--	--
1985	280	245	24,185	1,961	2,853	28,999	--	--	--	32,686	--	--	--
1990	262	240	20,207	2,160	1,377	23,744	--	--	--	38,164	--	--	--
1995	154	262	20,307	2,635	2,064	25,006	--	--	--	42,802	--	--	--
2000	82	263	20,910	3,829	2,790	27,530	--	--	--	45,008	--	--	--
2005	50	245	19,896	3,937	1,822	25,654	--	--	--	53,661	--	--	--
2006	56	206	16,902	3,897	1,420	22,219	--	--	--	51,790	--	--	--
2007	72	231	17,139	4,509	945	22,593	--	--	--	54,587	--	--	--
2008	0	229	26,532	5,181	492	32,205	--	--	--	54,060	--	--	--
2009	0	228	13,305	5,617	686	19,608	--	--	--	52,906	--	--	--
2010	0	224	14,793	5,418	743	20,954	--	--	--	55,253	--	--	--
2011	0	219	13,963	5,085	454	19,502	--	--	--	54,796	--	--	--
2012	0	197	12,273	4,334	190	16,797	--	--	--	52,876	--	--	--
2013	0	232	13,759	4,865	203	18,828	--	--	--	54,252	--	--	--
2014	0	255	15,798	5,196	358	21,352	--	--	--	54,195	--	--	--
2015	0	236	15,062	4,746	238	20,047	--	--	--	54,419	--	--	--
2016	0	216	12,689	4,402	267	17,358	--	--	--	53,877	--	--	--
2017	0	219	12,376	4,600	162	17,139	--	--	--	51,724	--	--	--
2018	0	253	14,948	5,407	164	20,519	--	--	--	55,896	--	--	--
2019	0	237	11,576	6,184	186	17,946	--	--	--	54,396	--	--	--
2020	0	221	10,302	4,849	176	15,328	--	--	--	55,307	--	--	--

**Trillion Btu**

1960	129.5	240.2	146.2	3.7	15.7	165.6	26.1	NA	NA	37.9	599.2	93.6	692.8
1965	77.6	265.3	165.4	4.4	15.6	185.4	21.2	NA	NA	50.5	600.0	120.6	720.6
1970	47.8	306.8	182.0	6.2	19.1	207.3	20.5	NA	NA	78.5	660.8	189.9	850.7
1975	12.6	279.5	184.0	6.9	11.5	202.4	20.8	NA	NA	94.4	609.7	226.5	836.2
1980	7.6	294.7	162.2	5.2	13.4	180.8	53.3	NA	NA	108.4	643.5	260.4	903.9
1985	6.6	253.2	140.9	7.5	16.2	164.6	49.6	NA	NA	111.5	585.5	255.4	840.9
1990	6.6	249.5	117.7	8.3	7.8	133.8	26.0	0.2	0.4	130.2	546.6	289.4	836.0
1995	3.8	271.4	118.2	10.1	11.7	140.0	23.4	0.2	0.5	146.0	585.4	332.6	917.9
2000	2.2	272.0	121.7	14.7	15.8	152.2	13.6	0.3	0.4	153.6	594.1	356.3	950.5
2005	1.3	255.0	115.8	15.1	10.3	141.2	15.4	0.6	0.4	183.1	596.9	407.1	1,004.0
2006	1.4	213.8	98.1	15.0	8.0	121.1	13.7	0.6	0.5	176.7	527.8	386.9	914.6
2007	1.8	240.2	99.1	17.3	5.4	121.8	15.1	0.8	0.5	186.3	566.5	398.6	965.0
2008	0.0	238.2	153.4	19.9	2.8	176.0	16.9	0.9	0.6	184.5	617.1	398.0	1,015.1
2009	0.0	236.8	76.9	21.6	3.9	102.3	24.1	1.2	0.7	180.5	545.5	376.2	921.6
2010	0.0	231.9	85.4	20.8	4.2	110.5	25.9	1.3	0.9	188.5	558.9	388.4	947.4
2011	0.0	228.1	80.6	19.5	2.6	102.7	25.1	1.3	1.2	187.0	545.3	380.7	926.0
2012	0.0	206.0	70.8	16.6	1.1	88.5	21.0	1.3	1.4	180.4	498.6	365.7	864.2
2013	0.0	243.5	79.3	18.7	1.2	99.1	27.3	1.3	1.5	185.1	557.9	374.8	932.7
2014	0.0	267.7	91.0	20.0	2.0	113.0	27.7	1.3	1.6	184.9	596.3	374.1	970.3
2015	0.0	247.1	86.8	18.2	1.4	106.4	35.0	1.3	1.6	185.7	577.0	371.0	948.0
2016	0.0	224.8	73.0	16.9	1.5	91.5	28.4	1.3	1.7	183.8	531.5	365.6	897.1
2017	0.0	228.2	71.2	17.7	0.9	89.8	27.9	1.3	2.2	176.5	526.0	344.3	870.3
2018	0.0	262.7	86.1	20.8	0.9	107.8	R 35.4	1.3	2.6	190.7	600.5	365.3	965.8
2019	0.0	245.9	66.7	23.8	1.1	91.5	R 33.5	1.3	3.1	R 185.6	R 561.0	330.8	R 891.8
2020	0.0	230.1	59.3	18.6	1.0	78.9	28.4	1.3	3.7	188.7	531.1	318.5	849.6

<sup>a</sup> Beginning in 2008, data are no longer collected and are assumed to be zero.  
<sup>b</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.  
<sup>d</sup> Wood and wood-derived fuels.  
<sup>e</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.  
<sup>f</sup> Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial sectors.  
<sup>g</sup> 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 net energy and total.

<sup>h</sup> 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 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>.  
 Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

**P E N N S Y L V A N I A** Table CT5. Commercial Sector Energy Consumption Estimates, Selected Years, 1960-2020, Pennsylvania

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum						Hydro-electric Power <sup>e,i</sup> Million Kilowatt-hours	Biomass		Geothermal <sup>f</sup>	Solar <sup>f,h</sup> Million Kilowatt-hours	Electricity Retail Sales	Net Energy <sup>f,i</sup>	Electrical System Energy Losses <sup>j</sup>	Total <sup>f,i</sup>	
			Distillate Fuel Oil	HGL <sup>b</sup>	Kerosene	Motor Gasoline <sup>c</sup>	Residual Fuel Oil	Total <sup>d</sup>		Wood and Waste <sup>f,g</sup>	Electricity							
											Thousand Barrels							Million Kilowatt-hours
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	--	--	4	46,411	--	--	--		
2010	184	142	4,091	1,784	133	90	91	6,189	0	--	--	R 85	47,366	--	--	--		
2011	170	141	3,647	2,089	35	90	40	5,900	0	--	--	R 88	43,536	--	--	--		
2012	131	127	2,962	1,679	12	89	26	4,767	0	--	--	R 113	42,920	--	--	--		
2013	119	149	3,214	1,980	10	92	11	5,306	0	--	--	R 101	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	--	--	--		

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	60.1	306.8
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	76.7	320.3
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	110.9	378.8
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	152.3	412.4
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	178.2	451.4
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	192.1	468.1
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	229.0	543.1
1995	25.7	148.8	36.9	3.8	3.0	0.5	7.7	51.8	0.0	7.1	0.1	(s)	121.3	354.8	276.1	630.9
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	340.4	705.7
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	347.3	722.0
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	340.8	694.8
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	347.0	721.0
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	348.6	715.1
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	330.0	682.7
2010	4.7	146.9	23.6	6.9	0.8	0.5	0.6	32.3	0.0	5.5	0.7	0.3	161.6	352.0	333.0	685.0
2011	4.3	146.8	21.0	8.0	0.2	0.5	0.3	30.0	0.0	5.3	0.9	R 0.9	148.5	R 336.7	302.4	639.1
2012	3.3	132.5	17.1	6.4	0.1	0.5	0.2	24.2	0.0	5.0	0.8	R 1.1	146.4	R 313.4	296.8	R 610.2
2013	3.1	156.6	18.5	7.6	0.1	0.5	0.1	26.7	0.0	5.4	0.8	R 1.0	147.2	R 340.8	298.1	R 638.8
2014	3.1	167.7	19.8	8.2	0.2	0.4	0.1	28.8	0.0	5.9	0.8	1.1	147.9	355.3	299.2	654.5
2015	2.0	159.4	18.8	7.8	0.1	14.0	0.1	40.8	0.0	7.5	0.8	1.0	149.3	360.8	298.2	659.1
2016	1.0	148.9	15.3	8.1	0.2	14.1	0.1	37.8	0.0	7.3	0.8	1.1	148.5	345.5	295.4	640.9
2017	0.6	152.2	17.9	7.2	0.1	14.3	(s)	39.6	0.0	7.5	0.8	1.3	145.4	347.5	283.7	631.3
2018	0.4	171.6	20.3	8.4	0.2	14.5	(s)	43.5	0.0	7.5	0.8	1.4	147.5	372.6	282.5	655.1
2019	0.3	168.0	19.9	8.0	0.2	14.6	0.0	42.8	0.0	7.0	0.8	1.5	137.0	357.4	244.1	601.5
2020	0.2	154.0	13.7	8.0	0.2	14.7	0.0	36.6	0.0	7.3	0.8	1.7	120.7	321.4	203.7	525.1

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>b</sup> Hydrocarbon gas liquids, assumed to be propane only.

<sup>c</sup> 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.

<sup>d</sup> Includes small amounts of petroleum coke not shown separately.

<sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

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

<sup>i</sup> 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 net energy 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.

<sup>j</sup> 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>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

**Table CT6. Industrial Sector Energy Consumption Estimates, Selected Years, 1960-2020, Pennsylvania**

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum						Hydro-electric Power <sup>e,f</sup> Million kWh	Biomass		Geo-thermal <sup>f</sup> Million kWh	Solar <sup>f,i</sup> Million kWh	Electricity Retail Sales	Net Energy <sup>f,j</sup>	Electrical System Energy Losses <sup>k</sup>	Total <sup>f,j</sup>
			Distillate Fuel Oil	HGL <sup>b</sup>	Motor Gasoline <sup>c</sup>	Residual Fuel Oil	Other <sup>d</sup>	Total		Wood and Waste <sup>g</sup>	Losses and Co-products <sup>h</sup>						
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	---	---	
2001	10,079	203	5,997	2,391	1,363	1,600	29,540	40,892	0	---	---	---	(s)	47,383	---	---	
2002	10,137	212	5,254	2,153	1,432	1,316	26,927	37,082	0	---	---	---	(s)	47,090	---	---	
2003	10,366	200	4,883	5,164	1,510	2,111	28,739	42,406	0	---	---	---	(s)	46,773	---	---	
2004	10,418	200	5,446	5,010	1,823	1,918	29,439	43,635	0	---	---	---	(s)	47,659	---	---	
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	7,723	2,048	679	24,559	40,912	0	---	---	---	R 12	45,458	---	---	
2011	7,217	247	7,049	8,065	1,241	696	22,386	39,437	0	---	---	---	R 41	49,585	---	---	
2012	6,872	282	7,877	5,680	2,073	205	18,501	34,336	0	---	---	---	R 58	48,039	---	---	
2013	7,908	340	8,707	5,482	2,133	139	20,541	37,002	0	---	---	---	R 58	48,043	---	---	
2014	8,056	399	9,924	5,602	1,716	78	21,405	38,726	0	---	---	---	63	48,318	---	---	
2015	7,567	386	8,869	5,401	1,494	90	22,330	38,184	0	---	---	---	68	47,404	---	---	
2016	5,818	401	6,389	5,517	1,485	123	21,759	35,272	0	---	---	---	68	47,128	---	---	
2017	6,012	415	7,264	5,427	1,503	95	22,486	36,775	0	---	---	---	64	47,889	---	---	
2018	6,223	457	7,522	5,517	1,523	76	21,244	35,882	0	---	---	---	66	49,155	---	---	
2019	6,002	497	7,609	5,399	1,521	92	17,671	32,293	0	---	---	---	70	50,423	---	---	
2020	4,157	472	5,579	5,714	1,534	112	13,144	26,083	0	---	---	---	75	48,607	---	---	

Trillion Btu																	
1960	873.1	220.0	50.4	3.8	7.6	186.7	110.7	359.1	0.2	19.8	NA	NA	NA	70.6	1,542.8	174.6	1,717.4
1965	1,053.3	296.1	67.8	5.2	7.8	185.0	142.3	408.2	0.2	25.8	NA	NA	NA	99.2	1,882.7	236.8	2,119.6
1970	932.1	351.2	59.4	8.7	6.2	170.6	143.5	388.4	0.1	32.3	NA	NA	NA	130.0	1,837.3	321.9	2,159.1
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	337.7	1,895.9
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	377.4	1,823.2
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	332.3	1,361.8
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	348.8	1,425.5
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	369.3	1,438.0
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	359.8	1,287.2
2001	266.0	214.6	34.9	8.2	7.1	10.1	182.2	242.5	0.0	35.6	(s)	0.0	(s)	161.7	920.2	353.8	1,274.0
2002	267.7	220.5	30.6	7.4	7.4	8.3	165.3	219.0	0.0	30.2	(s)	0.0	(s)	160.7	898.0	364.3	1,262.3
2003	274.0	208.2	28.4	17.8	7.8	13.3	176.9	244.2	0.0	31.1	(s)	0.0	(s)	159.6	917.1	355.7	1,272.8
2004	273.4	207.9	31.7	17.2	9.5	12.1	183.2	253.6	0.0	32.3	(s)	0.0	(s)	162.6	929.7	363.8	1,293.4
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	363.7	1,275.7
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	358.0	1,270.5
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	354.7	1,253.6
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	354.3	1,239.0
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	309.7	1,058.1
2010	186.2	228.8	34.1	29.6	10.4	4.3	152.7	231.0	0.0	38.1	5.4	0.0	0.1	155.1	R 844.8	319.6	1,164.3
2011	180.3	257.1	40.7	30.9	6.3	4.4	138.7	220.9	0.0	52.2	4.7	0.0	0.4	169.2	R 884.8	344.5	R 1,229.3
2012	185.6	294.9	45.4	R 21.8	10.5	1.3	115.2	194.2	0.0	52.2	4.7	0.0	R 0.6	163.9	R 896.2	332.2	R 1,228.4
2013	217.2	357.3	50.2	21.0	10.8	0.9	R 126.3	R 209.1	0.0	59.8	5.7	0.0	R 0.6	163.9	R 1,013.7	331.9	R 1,345.6
2014	221.8	419.6	57.2	21.5	8.7	0.5	R 132.3	R 220.1	0.0	54.9	R 5.3	0.0	0.6	164.9	R 1,087.2	335.5	R 1,420.7
2015	207.6	405.0	51.1	20.7	7.6	0.6	R 138.3	R 218.3	0.0	53.1	5.1	0.0	0.6	161.7	R 1,051.5	323.2	R 1,374.7
2016	159.7	418.1	36.8	21.2	7.5	0.8	R 137.2	R 203.4	0.0	54.7	R 5.6	0.0	0.6	160.8	R 1,002.9	319.8	R 1,322.7
2017	167.1	432.7	41.8	R 20.8	7.6	0.6	R 141.6	R 212.4	0.0	54.6	R 5.2	0.0	0.6	163.4	R 1,036.1	318.8	R 1,354.9
2018	175.7	475.0	43.3	R 21.2	7.7	0.6	R 133.9	R 206.5	0.0	51.5	R 5.0	0.0	0.6	167.7	R 1,082.1	321.3	R 1,403.4
2019	170.4	R 516.1	43.8	R 20.7	7.7	0.6	R 111.4	R 184.2	0.0	49.0	R 5.7	0.0	0.6	172.0	R 1,098.0	306.6	R 1,404.6
2020	118.0	490.3	32.1	21.9	7.7	0.7	82.7	145.2	0.0	48.9	5.1	0.0	0.7	165.8	974.0	279.9	1,253.9

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.  
<sup>c</sup> 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.  
<sup>d</sup> Includes asphalt and road oil, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.  
<sup>e</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.  
<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.  
<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>h</sup> Losses and co-products from the production of biodiesel and fuel ethanol.  
<sup>i</sup> Solar thermal and photovoltaic energy. Excludes a small amount of solar thermal energy consumed as heat that is included in the residential sector.  
<sup>j</sup> 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 net energy 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.  
<sup>k</sup> 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>.  
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.

**P E N N S Y L V A N I A** Table CT7. Transportation Sector Energy Consumption Estimates, Selected Years, 1960-2020, Pennsylvania

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum								Electricity Retail Sales Million Kilowatthours	Net Energy <sup>f,g</sup>	Electrical System Energy Losses <sup>h</sup>	Total <sup>f,g</sup>
			Aviation Gasoline	Distillate Fuel Oil <sup>b</sup>	HGL <sup>c</sup>	Jet Fuel <sup>d</sup>	Lubricants	Motor Gasoline <sup>e</sup>	Residual Fuel Oil	Total				
			Thousand Barrels											
1960	569	15	1,994	7,662	20	1,036	1,343	76,565	5,005	93,625	306	--	--	--
1965	130	19	1,922	8,900	60	3,406	1,121	81,658	4,554	101,622	232	--	--	--
1970	57	27	662	12,662	134	9,083	1,327	98,082	5,548	127,497	184	--	--	--
1975	5	18	426	16,566	157	8,469	1,094	106,357	5,788	138,857	194	--	--	--
1980	0	29	337	21,539	147	10,148	1,312	107,026	4,796	145,306	186	--	--	--
1985	0	33	208	20,337	249	10,126	1,194	100,255	2,139	134,508	365	--	--	--
1990	0	34	145	23,187	157	12,042	1,344	105,586	5,584	148,044	396	--	--	--
1995	0	38	125	29,224	188	12,313	1,282	111,261	4,769	159,162	379	--	--	--
2000	0	39	154	33,989	68	19,009	1,369	117,185	4,699	176,473	401	--	--	--
2005	0	31	100	38,790	197	16,826	1,155	121,878	4,600	183,546	880	--	--	--
2006	0	28	218	40,699	179	16,465	1,125	120,499	4,186	183,371	816	--	--	--
2007	0	35	97	39,473	130	15,503	1,162	122,337	3,419	182,120	876	--	--	--
2008	0	38	100	34,423	289	14,435	1,079	119,724	3,536	173,586	863	--	--	--
2009	0	42	69	34,787	210	12,476	970	121,181	2,397	172,089	879	--	--	--
2010	0	48	106	36,048	R 25	R 12,268	904	120,515	798	R 170,664	887	--	--	--
2011	0	52	116	37,540	R 25	R 12,085	872	118,396	448	R 169,482	840	--	--	--
2012	0	37	121	38,285	R 26	R 11,977	823	116,448	1,192	R 168,871	875	--	--	--
2013	0	38	106	37,395	R 26	R 12,349	849	117,184	1,005	R 168,915	814	--	--	--
2014	0	42	97	38,346	R 28	R 12,235	866	115,666	569	R 167,806	827	--	--	--
2015	0	44	102	37,211	R 58	R 12,217	908	112,768	330	R 163,594	776	--	--	--
2016	0	41	73	34,437	R 62	R 12,409	827	113,617	421	R 161,845	787	--	--	--
2017	0	44	73	34,489	R 150	R 12,811	760	114,497	196	R 162,976	755	--	--	--
2018	0	47	73	36,608	R 90	R 13,158	726	111,077	202	R 161,935	703	--	--	--
2019	0	R 51	84	37,250	R 67	R 13,685	700	R 111,575	269	R 163,632	619	--	--	--
2020	0	48	67	35,394	24	7,900	610	94,548	108	138,651	425	--	--	--

Trillion Btu														
1960	14.6	15.6	10.1	44.6	0.1	5.7	8.1	402.2	31.5	502.3	1.0	533.6	2.6	536.2
1965	3.3	20.1	9.7	51.8	0.2	19.2	6.8	429.0	28.6	545.3	0.8	569.5	1.9	571.4
1970	1.4	27.5	3.3	73.8	0.5	51.4	8.0	515.2	34.9	687.1	0.6	716.7	1.5	718.2
1975	0.1	18.1	2.1	96.5	0.6	47.9	6.6	558.7	36.4	748.9	0.7	767.8	1.6	769.4
1980	0.0	30.1	1.7	125.5	0.6	57.4	8.0	562.2	30.2	785.5	0.6	816.2	1.5	817.8
1985	0.0	34.1	R 1.0	118.5	1.0	57.3	7.2	526.6	13.4	725.1	1.2	760.4	2.9	763.3
1990	0.0	35.8	0.7	135.1	0.6	68.2	8.1	554.6	35.1	802.5	1.4	839.6	3.0	842.6
1995	0.0	39.3	0.6	170.1	0.7	69.8	7.8	579.0	30.0	858.0	1.3	898.6	2.9	901.6
2000	0.0	40.2	0.8	197.8	0.3	107.8	8.3	609.5	29.5	953.9	1.4	995.5	3.2	998.7
2005	0.0	32.3	0.5	225.7	0.8	95.4	7.0	632.8	28.9	991.1	3.0	1,027.1	6.7	1,033.7
2006	0.0	28.8	1.1	236.2	0.7	93.4	6.8	624.8	26.3	989.2	2.8	1,022.8	6.1	1,028.9
2007	0.0	36.5	0.5	228.3	0.5	87.9	7.0	629.1	21.5	974.8	3.0	1,017.0	6.4	1,023.4
2008	0.0	39.0	0.5	199.0	1.1	81.8	6.5	611.3	22.2	922.5	2.9	966.7	6.4	973.1
2009	0.0	43.3	0.4	201.0	0.8	70.7	5.9	616.8	15.1	910.6	3.0	957.0	6.2	963.2
2010	0.0	49.5	0.5	208.2	R 0.1	R 69.6	5.5	610.6	5.0	R 899.5	3.0	R 952.1	6.2	R 958.3
2011	0.0	53.6	0.6	216.6	R 0.1	R 68.5	5.3	599.4	2.8	R 893.4	2.9	R 949.8	5.8	R 955.6
2012	0.0	39.1	0.6	220.8	R 0.1	R 67.9	5.0	589.5	7.5	R 891.4	3.0	R 933.5	6.1	R 939.5
2013	0.0	40.0	0.5	215.5	0.1	R 70.0	5.1	593.0	6.3	R 890.6	2.8	R 933.4	5.6	R 939.0
2014	0.0	44.6	0.5	221.0	0.1	R 69.4	5.3	585.2	3.6	R 884.9	2.8	R 932.4	5.7	R 938.1
2015	0.0	45.7	0.5	214.4	0.2	R 69.3	5.5	570.3	2.1	R 862.3	2.6	R 910.6	5.3	R 915.9
2016	0.0	42.5	0.4	198.3	0.2	R 70.4	5.0	574.3	2.6	R 851.2	2.7	R 896.4	5.3	R 901.8
2017	0.0	46.2	0.4	198.6	R 0.6	R 72.6	4.6	578.6	1.2	R 856.5	2.6	R 905.3	5.0	R 910.3
2018	0.0	48.9	0.4	210.8	0.3	R 74.6	4.4	561.4	1.3	R 853.2	2.4	R 904.5	4.6	R 909.1
2019	0.0	R 52.7	0.4	214.5	R 0.3	R 77.6	4.2	563.7	1.7	R 862.4	2.1	R 917.2	3.8	R 921.0
2020	0.0	49.5	0.3	203.7	0.1	44.8	3.7	477.7	0.7	731.0	1.5	781.9	2.4	784.4

<sup>a</sup> Transportation use of natural gas to operate pipelines and, since 1990, also includes vehicle fuel.  
<sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil.  
<sup>c</sup> Hydrocarbon gas liquids, assumed to be propane only.  
<sup>d</sup> 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 "Industrial sector, Other Petroleum."  
<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.  
<sup>f</sup> There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of fuel ethanol beginning in 1981.  
<sup>g</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.  
<sup>h</sup> 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.  
 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 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>.  
 Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.



**Table CT8. Electric Power Sector Consumption Estimates, Selected Years, 1960-2020, Pennsylvania**

Year	Coal Thousand Short Tons	Natural Gas <sup>a</sup> Billion Cubic Feet	Petroleum				Nuclear Electric Power	Hydroelectric Power <sup>d</sup>	Biomass Wood and Waste <sup>e,f</sup>	Geothermal <sup>f</sup>	Solar <sup>f,g</sup>	Wind <sup>f</sup>	Electricity Net Imports <sup>h</sup>	Total <sup>f,i</sup>
			Distillate Fuel Oil <sup>b</sup>	Petroleum Coke	Residual Fuel Oil <sup>c</sup>	Total								
			Thousand Barrels											
1960	18,062	6	485	0	2,747	3,232	230	1,810	--	0	NA	NA	0	--
1965	23,182	1	591	0	3,351	3,943	313	1,313	--	0	NA	NA	0	--
1970	29,141	9	3,959	0	22,502	26,460	465	1,354	--	0	NA	NA	0	--
1975	36,659	1	3,419	0	10,273	13,691	15,869	1,575	--	0	NA	NA	0	--
1980	42,466	3	2,238	316	17,226	19,780	12,091	734	--	0	NA	NA	0	--
1985	41,713	2	1,423	782	11,622	13,827	26,232	971	--	0	0	0	0	--
1990	45,165	15	2,140	1,005	6,650	9,795	57,787	2,869	--	0	0	0	0	--
1995	46,895	39	1,398	1,310	4,836	7,545	66,462	2,030	--	0	0	0	16	--
2000	52,266	21	2,593	26	4,744	7,363	73,771	2,290	--	0	10	0	0	--
2005	54,464	81	1,273	534	7,058	8,865	76,289	2,232	--	0	284	0	-286	--
2006	55,936	101	651	179	949	1,779	75,298	2,844	--	0	361	0	-95	--
2007	55,712	144	838	0	1,516	2,353	77,376	2,236	--	0	470	0	62	--
2008	53,995	141	794	137	701	1,632	78,658	2,549	--	0	(s)	729	533	--
2009	48,853	211	592	140	776	1,508	77,328	2,683	--	0	4	1,075	170	--
2010	50,888	246	735	0	408	1,143	77,828	2,332	--	0	7	1,854	421	--
2011	47,403	306	671	0	230	902	76,147	3,217	--	0	18	1,794	435	--
2012	41,602	394	502	0	107	608	75,174	2,242	--	0	26	2,129	1,339	--
2013	41,992	362	571	0	97	668	78,714	2,525	--	0	55	3,352	1,109	--
2014	38,307	388	1,003	0	228	1,231	78,715	2,641	--	0	50	3,565	554	--
2015	31,391	438	1,043	0	0	1,043	80,517	2,604	--	0	52	3,353	536	--
2016	27,528	501	585	1	0	587	82,924	2,375	--	0	61	3,476	309	--
2017	24,384	527	519	0	0	519	83,200	3,123	--	0	56	3,591	32	--
2018	23,503	539	1,352	0	9	1,362	83,477	4,262	--	0	50	3,567	44	--
2019	19,480	673	378	0	7	385	83,230	3,503	--	0	70	3,250	0	--
2020	13,622	829	167	0	8	176	76,521	2,672	--	0	128	3,748	0	--

**Trillion Btu**

1960	423.3	6.2	2.8	0.0	17.3	20.1	2.7	19.5	0.0	0.0	NA	NA	0.0	471.7
1965	558.6	1.3	3.4	0.0	21.1	24.5	3.7	13.7	0.0	0.0	NA	NA	0.0	601.8
1970	680.2	9.7	23.1	0.0	141.5	164.5	5.1	14.2	0.0	0.0	NA	NA	0.0	873.7
1975	861.4	1.2	19.9	0.0	64.6	84.5	174.8	16.4	0.0	0.0	NA	NA	0.0	1,138.3
1980	1,026.7	2.9	13.0	1.9	108.3	123.2	131.9	7.6	0.0	0.0	NA	NA	0.0	1,292.3
1985	1,019.7	1.6	8.3	4.7	73.1	86.1	278.6	10.1	0.0	0.0	0.0	0.0	0.0	1,396.1
1990	1,054.7	14.0	12.5	6.1	41.8	60.3	611.5	29.8	8.8	0.0	0.0	0.0	0.0	1,779.2
1995	1,062.4	40.6	8.1	7.9	30.4	46.4	698.3	20.9	27.7	0.0	0.0	0.0	0.1	1,896.4
2000	1,210.6	21.3	15.1	0.2	29.8	45.1	769.4	23.4	31.5	0.0	0.0	0.1	0.0	2,101.3
2005	1,224.9	83.5	7.4	3.1	44.4	54.8	796.2	22.3	25.0	0.0	0.0	2.8	-1.0	2,208.6
2006	1,243.1	104.4	3.8	1.0	6.0	10.8	785.7	28.2	25.5	0.0	0.0	3.6	-0.3	2,200.9
2007	1,241.6	148.3	4.8	0.0	9.5	14.4	811.6	22.1	26.4	0.0	0.0	4.6	0.2	2,269.2
2008	1,188.6	145.8	4.6	0.8	4.4	9.8	822.1	25.1	28.6	0.0	(s)	7.2	1.8	2,228.9
2009	1,071.1	216.6	3.4	0.8	4.9	9.1	808.8	26.2	28.5	0.0	(s)	10.5	0.6	2,171.3
2010	1,119.8	252.2	4.2	0.0	2.6	6.8	813.5	22.8	30.1	0.0	0.0	18.1	1.4	2,264.7
2011	1,028.4	315.0	3.9	0.0	1.4	5.3	796.8	31.3	28.7	0.0	0.2	17.4	1.5	2,224.5
2012	904.2	407.0	2.9	0.0	0.7	3.6	787.8	21.3	27.6	0.0	0.2	20.3	4.6	2,176.5
2013	905.8	378.1	3.3	0.0	0.6	3.9	822.5	24.1	27.5	0.0	0.5	32.0	3.8	2,198.2
2014	814.3	404.3	5.8	0.0	1.4	7.2	823.3	25.1	26.9	0.0	0.5	33.9	1.9	2,137.4
2015	669.2	456.2	6.0	0.0	0.0	6.0	842.0	24.3	27.2	0.0	0.5	31.2	1.8	2,058.5
2016	574.1	520.1	3.4	(s)	0.0	3.4	867.3	21.9	27.3	0.0	0.6	32.1	1.1	2,047.8
2017	501.8	544.9	3.0	0.0	0.0	3.0	870.2	28.8	27.5	0.0	0.5	33.1	0.1	2,009.8
2018	468.0	557.8	7.8	0.0	0.1	7.8	872.7	38.8	26.7	0.0	0.5	32.5	0.2	2,004.9
2019	398.1	696.8	2.2	0.0	(s)	2.2	869.1	31.2	24.0	0.0	0.6	28.9	0.0	2,051.0
2020	256.0	859.2	1.0	0.0	0.1	1.0	799.0	23.4	22.2	0.0	1.1	32.9	0.0	1,994.9

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.

<sup>b</sup> Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. For 1980 through 2000, distillate fuel oil includes fuel oil Nos. 1 and 2, and small amounts of kerosene and jet fuel.

<sup>c</sup> Prior to 1980, based on oil used in steam plants. For 1980 through 2000, residual fuel oil includes fuel oil Nos. 4, 5, and 6.

<sup>d</sup> Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

<sup>e</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

<sup>f</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

<sup>g</sup> Solar thermal and photovoltaic energy.

<sup>h</sup> Electricity traded with Canada and Mexico. Btu value calculated by converting net imports in kilowatthours by 3,412 Btu per kilowatthour.

<sup>i</sup> 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 the total.

-- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than +0.5 and greater than -0.5 or Btu value less than +0.05 and greater than -0.05.

Notes: Totals may not equal sum of components due to independent rounding. · The electric power sector consists of electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. · Through 1988, data are for electric utilities only. Beginning in 1989, data include independent power producers. · 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>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.