

Table ET5. Industrial sector energy price and expenditure estimates, selected years, 1970-2023, Pennsylvania

Year	Primary energy												Electricity ⁱ	Total energy ^{f,g,h}
	Coal			Natural gas ^a	Petroleum					Biomass	Total ^{f,g,h}			
	Coking coal	Steam coal	Total		Distillate fuel oil	HGL ^b	Motor gasoline ^c	Residual fuel oil	Other ^d	Total		Wood and waste ^{e,f}		
Prices in dollars per million Btu														
1970	0.44	0.32	0.41	0.57	0.70	1.45	2.92	0.50	1.82	1.01	1.60	0.56	3.55	0.79
1975	1.52	1.25	1.47	1.07	2.38	2.99	4.72	2.07	3.24	2.61	1.60	1.62	7.99	2.25
1980	2.20	1.33	2.03	3.00	5.67	5.59	9.71	4.07	7.68	6.17	1.62	3.04	12.87	4.24
1985	1.88	1.61	1.81	4.77	6.40	9.96	9.01	4.70	9.07	7.99	1.62	3.88	17.07	6.01
1990	1.71	1.47	1.65	4.01	5.89	11.51	9.35	3.46	7.20	6.54	1.08	3.39	17.51	5.67
1995	1.72	1.35	1.63	3.77	5.05	9.15	9.73	2.80	8.01	7.03	1.28	3.17	17.35	5.54
2000	1.66	1.34	1.56	4.95	7.74	13.36	12.12	4.20	9.67	9.07	1.40	4.21	16.50	6.54
2005	3.01	2.21	2.80	10.81	13.88	19.67	18.23	7.56	11.50	13.27	2.60	7.86	18.45	10.06
2006	3.33	2.31	3.06	11.84	15.87	21.88	20.91	8.60	14.45	15.99	2.53	9.26	19.44	11.36
2007	3.49	2.45	3.23	10.24	18.10	25.58	22.70	9.60	16.46	18.24	2.41	9.46	20.14	11.72
2008	4.41	2.90	4.02	11.64	25.06	30.74	26.65	12.76	18.96	22.94	2.70	11.54	20.61	13.45
2009	5.18	3.08	4.48	8.84	15.12	25.39	19.61	9.54	20.08	19.57	2.54	10.32	21.14	12.89
2010	5.47	3.15	4.83	7.94	18.09	29.26	23.21	12.91	R 19.09	R 21.18	2.53	R 10.04	22.44	R 12.75
2011	6.60	3.60	5.81	9.49	24.53	36.58	29.48	18.07	R 22.34	R 26.52	2.50	R 12.26	22.66	R 14.71
2012	6.32	3.69	5.77	9.18	25.63	28.59	30.58	18.61	R 22.67	R 25.34	2.41	R 11.65	21.18	R 13.86
2013	5.47	3.44	5.11	8.69	24.57	31.47	29.70	17.63	R 23.13	R 25.51	2.34	R 10.92	20.42	R 12.90
2014	4.47	3.43	4.30	9.47	22.72	32.77	28.73	14.60	R 22.66	R 24.60	2.78	R 10.99	21.72	R 13.14
2015	3.92	3.34	3.82	8.19	14.59	18.20	20.81	8.98	R 19.11	R 17.49	2.65	R 8.76	21.09	R 11.33
2016	3.49	3.12	3.42	7.10	11.62	16.30	18.81	8.03	R 15.68	R 14.81	2.46	R 7.69	20.29	R 10.56
2017	3.83	3.28	3.77	8.03	15.03	21.59	21.48	8.82	16.36	17.11	2.36	8.74	19.84	11.22
2018	4.11	3.46	4.06	8.36	16.14	25.23	23.52	9.94	19.69	19.72	2.24	9.47	20.04	11.84
2019	4.63	3.52	4.55	8.20	14.95	17.71	22.19	9.97	R 19.77	R 17.96	2.37	R 9.19	18.78	R 11.37
2020	3.96	3.36	3.90	7.68	10.67	16.00	19.17	7.86	R 18.72	R 15.88	2.00	R 8.46	18.05	10.94
2021	3.70	3.56	3.69	8.19	14.67	32.49	25.62	11.71	20.85	21.34	2.33	9.73	19.16	11.91
2022	6.07	4.51	5.96	10.76	27.92	14.51	33.59	16.37	R 27.03	22.53	R 2.13	R 12.57	24.07	R 15.01
2023	6.53	5.68	6.48	11.35	23.38	8.41	29.88	14.52	24.28	15.97	2.24	11.42	22.71	13.76

Year	Expenditures in million dollars													
	Coking coal	Steam coal	Total	Natural gas ^a	Distillate fuel oil	HGL ^b	Motor gasoline ^c	Residual fuel oil	Other ^d	Total	Wood and waste ^{e,f}	Total ^{f,g,h}	Electricity ⁱ	Total energy ^{f,g,h}
1970	317.5	64.3	381.8	186.2	38.9	12.6	18.1	60.9	142.0	8.5	848.9	458.4	1,307.3	
1975	913.7	172.0	1,085.7	266.6	144.8	36.2	27.2	196.0	247.2	651.5	2,013.2	1,092.1	3,105.4	
1980	1,005.0	150.8	1,155.8	957.9	358.4	102.8	29.9	153.1	558.5	1,202.7	3,336.6	1,964.8	5,301.4	
1985	492.9	154.7	647.5	1,077.2	235.6	153.7	60.4	70.5	592.6	1,112.8	2,861.1	2,430.3	5,291.4	
1990	480.0	148.9	628.9	943.7	255.7	116.5	58.0	106.1	601.1	1,137.4	2,722.1	2,702.2	5,424.3	
1995	500.7	135.5	636.2	933.1	125.4	50.7	47.3	36.1	646.2	905.7	2,503.0	2,744.0	5,247.0	
2000	319.8	114.3	434.1	1,095.5	248.2	78.7	44.3	35.4	767.3	1,174.0	2,731.0	2,497.7	5,228.7	
2005	549.4	148.9	698.3	1,843.9	445.4	408.0	174.2	61.2	997.1	2,085.8	4,671.7	2,875.4	7,547.1	
2006	589.6	145.7	735.4	2,097.4	671.1	533.8	228.9	72.4	1,212.9	2,719.1	4,719.6	3,059.6	8,654.3	
2007	606.4	143.1	749.5	1,874.4	820.6	589.6	179.9	65.4	1,290.0	2,945.4	5,609.1	3,199.4	8,808.5	
2008	743.9	168.9	912.8	2,121.3	1,269.3	877.6	113.9	76.3	1,358.5	3,695.6	6,775.3	3,234.5	10,009.8	
2009	510.1	151.0	661.1	1,413.7	479.0	658.9	83.8	41.2	1,296.1	2,559.0	4,669.9	2,982.3	7,652.1	
2010	738.0	160.2	898.2	1,546.0	615.6	864.9	240.8	51.5	R 1,105.8	R 2,878.7	5,369.6	3,351.2	R 8,720.8	
2011	875.5	169.3	1,044.8	1,745.6	995.5	1,157.2	185.2	78.0	R 1,171.5	R 3,587.4	6,444.9	3,677.0	R 10,121.9	
2012	927.2	142.0	1,069.1	1,668.3	1,164.1	662.6	320.9	23.2	R 1,139.9	R 3,310.6	6,113.3	3,356.1	R 9,469.4	
2013	976.9	131.1	1,108.0	1,853.2	1,232.5	726.7	320.6	14.1	R 1,250.5	R 3,544.4	6,586.0	3,249.4	R 9,835.4	
2014	826.9	125.5	952.4	2,244.8	1,299.6	794.4	249.3	6.9	R 1,416.9	R 3,767.1	7,046.3	3,487.8	R 10,534.0	
2015	674.7	116.9	791.6	1,714.7	744.5	434.0	157.2	4.0	R 1,284.1	R 2,623.8	5,203.6	3,296.7	R 8,500.3	
2016	456.5	89.6	546.1	1,452.7	427.2	395.8	141.2	6.2	R 1,011.9	R 1,982.3	4,052.7	3,158.2	R 7,210.9	
2017	574.0	56.0	630.0	1,705.3	628.7	514.0	163.2	4.9	1,067.7	2,378.6	4,782.7	3,136.7	7,919.4	
2018	666.8	46.8	713.6	1,868.2	699.1	610.9	181.1	4.7	1,179.6	2,675.4	5,317.5	3,253.5	8,571.0	
2019	733.2	42.3	775.5	1,963.1	655.2	421.2	170.5	5.5	R 1,194.9	R 2,447.2	5,244.4	3,151.4	R 8,395.8	
2020	418.6	41.4	460.0	1,618.0	342.7	400.6	148.5	5.2	R 949.5	R 1,846.5	4,944.4	2,961.6	R 8,935.4	
2021	565.7	41.3	607.0	1,950.8	629.8	834.5	195.9	6.2	R 1,153.5	R 2,819.9	5,432.9	3,229.7	R 8,662.7	
2022	949.8	50.3	1,000.2	2,705.6	1,212.1	1,079.6	269.5	8.9	R 1,657.9	R 4,228.0	6,626.6	4,130.7	R 12,127.1	
2023	953.0	54.5	1,007.5	2,679.3	990.6	1,011.0	241.3	5.9	1,407.1	3,655.8	7,406.4	3,851.7	11,258.2	

^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 the expenditure series between 2014 and 2015 because of changes in consumption estimates from the source. See consumption 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 Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.
^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.
^g There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.

^h For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.
ⁱ Electricity sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the technical notes.
Notes: · Expenditure 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.
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/>