Table CT6. Industrial sector energy consumption estimates, selected years, 1960-2022, Washington

Year	Coal	Natural gas [a]	Petroleum						Hydro-electric power [e,f]	Biomass		Geo-thermal [f]	Solar [f,i]	Electricity [j]	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]						
	Thousand short tons	Billion cubic feet	Thousand barrels						Million kWh				Million kWh				
1960	420	50	5,937	134	802	7,137	5,134	19,144	195	– –	– –	– –	NA	13,975	– –	– –	– –
1965	341	79	5,546	155	765	7,281	9,804	23,551	190	– –	– –	– –	NA	18,703	– –	– –	– –
1970	210	93	4,986	274	551	7,874	12,331	26,015	135	– –	– –	– –	NA	25,530	– –	– –	– –
1975	463	92	4,025	250	438	5,924	15,456	26,094	181	– –	– –	– –	NA	27,416	– –	– –	– –
1980	332	64	4,350	658	278	6,538	12,506	24,331	129	– –	– –	– –	NA	31,366	– –	– –	– –
1985	208	63	2,689	1,487	692	5,167	14,164	24,199	129	– –	– –	– –	NA	29,431	– –	– –	– –
1990	229	78	3,976	1,228	658	1,989	20,233	28,084	189	– –	– –	– –	(s)	40,712	– –	– –	– –
1995	223	110	3,724	1,278	555	644	21,708	27,910	197	– –	– –	– –	(s)	34,276	– –	– –	– –
2000	126	84	2,953	4,003	533	888	23,985	32,362	32	– –	– –	– –	(s)	35,410	– –	– –	– –
2005	71	67	2,900	237	1,261	12	20,528	24,938	2	– –	– –	– –	(s)	22,112	– –	– –	– –
2006	94	71	3,707	284	1,311	7	21,582	26,891	2	– –	– –	– –	(s)	22,013	– –	– –	– –
2007	136	74	3,970	336	969	3	20,342	25,620	3	– –	– –	– –	(s)	20,753	– –	– –	– –
2008	148	76	4,951	1,282	876	7	20,230	27,347	2	– –	– –	– –	(s)	21,117	– –	– –	– –
2009	170	71	2,836	941	848	265	19,164	24,055	2	– –	– –	– –	(s)	23,371	– –	– –	– –
2010	141	71	2,991	1,111	1,114	249	17,864	23,329	3	– –	– –	– –	(s)	26,633	– –	– –	– –
2011	97	76	2,927	1,433	1,131	262	16,347	22,098	3	– –	– –	– –	(s)	27,933	– –	– –	– –
2012	109	78	2,553	1,361	1,105	176	17,730	22,925	1	– –	– –	– –	(s)	27,579	– –	– –	– –
2013	106	81	2,608	1,481	1,139	154	16,092	21,474	0	– –	– –	– –	(s)	27,235	– –	– –	– –
2014	141	79	2,489	1,456	1,019	0	15,660	20,625	0	– –	– –	– –	(s)	28,013	– –	– –	– –
2015	102	77	3,114	1,476	1,000	0	17,600	23,190	0	– –	– –	– –	(s)	26,772	– –	– –	– –
2016	100	79	3,254	1,478	985	0	R 16,606	R 22,322	0	– –	– –	– –	(s)	25,678	– –	– –	– –
2017	76	81	3,109	818	997	10	R 16,142	R 21,075	0	– –	– –	– –	(s)	24,859	– –	– –	– –
2018	74	77	3,909	1,022	1,014	5	R 15,981	R 21,932	0	– –	– –	– –	(s)	25,263	– –	– –	– –
2019	79	78	4,336	603	1,009	0	R 15,850	R 21,798	0	– –	– –	– –	1	25,172	– –	– –	– –
2020	82	78	4,485	719	1,017	0	R 14,100	R 20,320	0	– –	– –	– –	1	22,442	– –	– –	– –
2021	79	81	3,507	931	999	5	R 13,738	R 19,180	0	– –	– –	– –	1	21,436	– –	– –	– –
2022	78	80	3,545	1,473	1,039	5	13,391	19,453	0	– –	– –	– –	1	21,227	– –	– –	– –
			Trillion Btu														
1960	10.9	51.8	34.6	0.5	4.2	44.9	31.6	115.8	R 0.7	40.4	NA	NA	NA	47.7	R 267.3	R 96.1	R 363.4
1965	8.8	85.3	32.3	0.6	4.0	45.8	59.9	142.6	R 0.6	53.5	NA	NA	NA	63.8	R 354.6	R 125.5	R 480.2
1970	5.1	98.3	29.0	1.0	2.9	49.5	75.4	157.8	R 0.5	56.8	NA	NA	NA	87.1	R 405.5	R 178.4	R 583.9
1975	10.9	96.0	23.4	0.9	2.3	37.2	94.6	158.4	R 0.6	53.9	NA	NA	NA	93.5	R 413.4	R 191.0	R 604.4
1980	7.1	67.0	25.3	2.3	1.5	41.1	76.2	146.4	R 0.4	78.3	NA	NA	NA	107.0	R 406.2	R 227.7	R 633.9
1985	4.5	65.7	15.7	5.1	3.6	32.5	87.0	143.9	R 0.4	91.7	0.3	NA	NA	100.4	R 407.0	R 204.1	R 611.1
1990	5.2	80.8	23.2	4.2	3.5	12.5	123.2	166.6	R 0.6	75.0	0.3	0.0	(s)	138.9	R 467.3	R 58.1	R 525.4
1995	4.2	114.6	21.7	4.4	2.9	4.1	133.0	166.0	R 0.7	64.7	0.3	0.0	(s)	117.0	R 467.5	R 58.9	R 526.4
2000	2.8	87.3	17.2	13.7	2.8	5.6	147.6	186.8	R 0.1	62.2	0.1	0.0	(s)	120.8	R 460.2	R 86.3	R 546.5
2005	1.5	68.9	16.9	0.8	6.5	0.1	124.5	148.9	(s)	56.9	(s)	0.0	(s)	75.4	351.6	R 51.3	R 402.9
2006	2.0	72.9	21.5	1.0	6.8	(s)	130.5	159.9	(s)	81.1	0.0	0.0	(s)	75.1	391.0	R 44.7	R 435.7
2007	3.2	75.4	23.0	1.1	5.0	(s)	123.0	152.1	(s)	54.9	(s)	0.0	(s)	70.8	356.5	R 39.9	R 396.4
2008	3.0	78.0	28.6	4.3	4.5	(s)	122.0	159.5	(s)	55.3	(s)	0.0	(s)	72.1	367.8	R 43.3	R 411.1
2009	3.5	73.4	16.4	3.1	4.3	1.7	115.1	140.6	(s)	56.6	(s)	0.0	(s)	79.7	353.8	R 46.8	R 400.6
2010	2.7	73.6	17.3	4.3	5.6	1.6	107.8	136.5	(s)	76.0	(s)	0.0	(s)	90.9	379.8	R 62.2	R 441.9
2011	1.8	78.5	16.9	5.5	5.7	1.6	98.7	128.5	(s)	74.7	0.1	0.0	(s)	95.3	R 378.8	R 33.6	R 412.5
2012	2.1	80.5	14.7	5.2	5.6	1.1	106.8	133.4	(s)	77.7	(s)	0.0	(s)	94.1	387.8	R 38.3	R 426.1
2013	2.0	83.6	15.0	5.7	5.8	1.0	97.3	124.8	0.0	78.0	0.1	0.0	(s)	92.9	381.3	R 50.5	R 431.8
2014	2.7	83.0	14.3	5.6	5.2	0.0	94.8	119.9	0.0	78.0	0.1	0.0	(s)	95.6	379.2	R 52.8	R 432.0
2015	1.9	81.4	17.9	5.7	5.1	0.0	106.1	134.7	0.0	78.4	0.1	0.0	(s)	91.3	387.9	R 48.3	R 436.2
2016	1.9	85.5	18.7	5.7	5.0	0.0	103.0	132.4	0.0	84.5	0.1	0.0	(s)	87.6	392.0	R 42.7	R 434.8
2017	1.4	87.1	17.9	3.1	5.0	0.1	R 100.6	R 126.7	0.0	78.5	0.1	0.0	(s)	84.8	R 378.7	R 39.5	R 418.2
2018	1.4	84.0	22.5	3.9	5.1	(s)	R 99.6	R 131.2	0.0	76.7	0.1	0.0	(s)	86.2	R 379.6	R 42.2	R 421.9
2019	1.5	85.2	25.0	2.3	5.1	0.0	R 98.7	R 131.1	0.0	75.8	0.1	0.0	(s)	85.9	R 379.5	R 51.9	R 431.4
2020	1.5	84.7	25.8	2.8	5.1	0.0	R 88.1	R 121.8	0.0	70.4	0.1	0.0	(s)	76.6	R 355.3	R 35.0	R 390.3
2021	1.5	87.7	20.2	3.6	5.0	(s)	R 86.7	R 115.6	0.0	72.1	0.1	0.0	(s)	73.1	R 350.1	R 33.1	R 383.2
2022	1.5	87.2	20.4	5.7	5.2	(s)	84.6	116.0	0.0	67.2	0.1	0.0	(s)	72.4	344.4	31.8	376.2

[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 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. http://www.eia.gov/state/seds/