

Table 2.1d Industrial Sector Energy Consumption Estimates, Selected Years, 1949-2011
(Trillion Btu)

Year	Primary Consumption ¹														Electricity Retail Sales ¹¹	Electrical System Energy Losses ¹²	Total
	Fossil Fuels					Renewable Energy ²											
	Coal	Coal Coke Net Imports	Natural Gas ³	Petroleum ^{4,5}	Total	Hydroelectric Power ⁶	Geothermal ⁷	Solar/PV ⁸	Wind ⁹	Biomass ¹⁰	Total	Total Primary					
1949	5,433	-7	3,188	3,475	12,090	76	NA	NA	NA	468	544	12,633	418	1,672	14,724		
1950	5,781	1	3,546	3,960	13,288	69	NA	NA	NA	532	602	13,890	500	1,852	16,241		
1955	5,620	-10	4,701	5,123	15,434	38	NA	NA	NA	631	669	16,103	887	2,495	19,485		
1960	4,543	-6	5,973	5,766	16,277	39	NA	NA	NA	680	719	16,996	1,107	2,739	20,842		
1965	5,127	-18	7,339	6,813	19,260	33	NA	NA	NA	855	888	20,148	1,463	3,487	25,098		
1970	4,656	-58	9,536	7,776	21,911	34	NA	NA	NA	1,019	1,053	22,964	1,948	4,716	29,628		
1975	3,667	14	8,532	8,127	20,339	32	NA	NA	NA	1,063	1,096	21,434	2,346	5,632	29,413		
1976	3,661	(s)	8,762	8,990	21,412	33	NA	NA	NA	1,220	1,253	22,665	2,573	6,155	31,393		
1977	3,454	15	8,635	9,747	21,851	33	NA	NA	NA	1,281	1,314	23,165	2,682	6,416	32,263		
1978	3,314	125	8,539	9,835	21,812	32	NA	NA	NA	1,400	1,432	23,244	2,761	6,683	32,688		
1979	3,593	63	8,549	10,548	22,753	34	NA	NA	NA	1,405	1,439	24,192	2,873	6,860	33,925		
1980	3,155	-35	8,333	9,509	20,962	33	NA	NA	NA	1,600	1,633	22,595	2,781	6,664	32,039		
1981	3,157	-16	8,185	8,265	19,590	33	NA	NA	NA	1,695	1,728	21,318	2,817	6,576	30,712		
1982	2,552	-22	7,068	7,772	17,370	33	NA	NA	NA	1,650	1,683	19,053	2,542	6,020	27,614		
1983	2,490	-16	6,776	7,390	16,640	33	NA	NA	NA	1,874	1,908	18,548	2,648	6,232	27,428		
1984	2,842	-11	7,405	7,987	18,222	33	NA	NA	NA	1,918	1,951	20,174	2,859	6,538	29,570		
1985	2,760	-13	7,032	7,714	17,492	33	NA	NA	NA	1,918	1,951	19,443	2,855	6,518	28,816		
1986	2,641	-17	6,646	7,860	17,130	33	NA	NA	NA	1,915	1,948	19,078	2,834	6,362	28,274		
1987	2,673	9	7,283	8,042	18,006	33	NA	NA	NA	1,914	1,947	19,953	2,928	6,497	29,379		
1988	2,828	40	7,655	8,317	18,840	33	NA	NA	NA	1,989	2,022	20,862	3,059	6,757	30,677		
1989	2,787	30	8,088	8,098	19,003	28	2	-	-	1,841	1,871	20,874	3,158	7,288	31,320		
1990	2,756	5	8,451	8,251	19,463	31	2	-	-	1,684	1,717	21,180	3,226	7,404	31,810		
1991	2,601	10	8,572	7,958	19,141	30	2	-	-	1,652	1,684	20,824	3,230	7,345	31,399		
1992	2,515	35	8,918	8,552	20,019	31	2	-	-	1,705	1,737	21,756	3,319	7,496	32,571		
1993	2,496	27	9,070	8,386	19,980	30	2	-	-	1,741	1,773	21,753	3,334	7,541	32,629		
1994	2,510	58	9,126	8,771	20,465	62	3	-	-	1,862	1,927	22,393	3,439	7,689	33,521		
1995	2,488	61	9,592	8,586	20,727	55	3	-	-	1,934	1,992	22,719	3,455	7,796	33,971		
1996	2,434	23	9,901	9,019	21,377	61	3	-	-	1,969	2,033	23,410	3,527	7,968	34,904		
1997	2,395	46	9,933	9,255	21,629	58	3	-	-	1,996	2,057	23,686	3,542	7,972	35,200		
1998	2,335	67	9,763	9,082	21,248	55	3	-	-	1,872	1,929	23,177	3,587	8,079	34,843		
1999	2,227	58	9,375	9,356	21,016	49	4	-	-	1,882	1,934	22,950	3,611	8,203	34,764		
2000	2,256	65	9,500	9,075	20,896	42	4	-	-	1,881	1,928	22,824	3,631	8,208	34,664		
2001	2,192	29	8,676	9,178	20,075	33	5	-	-	1,681	1,719	21,794	3,400	7,526	32,720		
2002	2,019	61	R8,832	9,168	R20,079	39	5	-	-	1,676	1,720	R21,799	3,379	7,484	R32,662		
2003	2,041	51	8,488	9,197	19,777	43	3	-	-	1,679	1,726	21,503	3,454	7,575	32,532		
2004	2,047	138	R8,550	9,825	R20,559	33	4	-	-	1,817	1,853	R22,412	3,473	7,635	R33,520		
2005	1,954	44	R7,907	9,633	R19,538	32	4	-	-	1,837	1,873	R21,411	3,477	7,557	R32,446		
2006	1,914	61	R7,861	9,770	R19,606	29	4	-	-	1,897	1,930	R21,536	3,451	7,415	R32,401		
2007	1,865	25	R8,074	9,451	R19,414	16	5	-	-	R1,936	R1,956	R21,370	3,507	7,517	R32,394		
2008	1,796	41	R8,083	8,511	R18,431	17	5	-	-	R2,028	R2,049	R20,480	3,444	7,365	R31,290		
2009	1,396	-24	7,609	7,816	R16,797	18	4	-	-	R1,994	R2,016	R18,813	3,130	6,582	R28,525		
2010	R1,649	-6	R7,959	R8,210	R17,812	16	4	(s)	-	R2,230	R2,250	R20,062	R3,313	R6,934	R30,309		
2011 ^P	1,599	11	8,321	8,064	17,995	18	4	(s)	(s)	2,273	2,295	20,291	3,329	6,973	30,592		

¹ See "Primary Energy Consumption" in Glossary.

² Most data are estimates. See Table 10.2b for notes on series components and estimation.

³ Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 1, "Supplemental Gaseous Fuels," at end of Section 6.

⁴ Based on petroleum product supplied. For petroleum, product supplied is used as an approximation of petroleum consumption. See Note 1, "Petroleum Products Supplied and Petroleum Consumption," at end of Section 5.

⁵ Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."

⁶ Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

⁷ Geothermal heat pump and direct use energy.

⁸ Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at industrial plants with capacity of 1 megawatt or greater.

⁹ Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

¹⁰ Wood and wood-derived fuels; municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass; fuel ethanol (minus denaturant); and losses and co-products from the production of fuel ethanol and biodiesel. Through 2000, also includes non-renewable waste

(municipal solid waste from non-biogenic sources, and tire-derived fuels).

¹¹ Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

¹² Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note, "Electrical System Energy Losses," at end of section.

R=Revised. P=Preliminary. NA=Not available. —=No data reported. (s)=Less than +0.5 trillion Btu and greater than -0.5 trillion Btu.

Notes: • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 8. • Totals may not equal sum of components due to independent rounding.

Web Pages: • See <http://www.eia.gov/totalenergy/data/monthly/#consumption> for updated monthly and annual data. • See <http://www.eia.gov/totalenergy/data/annual/#consumption> for all annual data beginning in 1949.

Sources: Tables 2.1f, 5.14b, 6.5, 7.3, 7.8, 8.9, 10.2b, A4, A5, and A6.