

Table 10.2b Renewable Energy Consumption: Industrial and Transportation Sectors, Selected Years, 1949-2008
(Trillion Btu)

Year	Industrial Sector ¹							Transportation Sector			
	Hydro-electric Power ²	Geo-thermal ³	Biomass				Total	Biomass			
			Wood ⁴	Waste ⁵	Fuel Ethanol ⁶	Losses and Co-products ⁷		Fuel Ethanol ⁸	Biodiesel ⁹	Total	
1949	76	NA	468	NA	NA	NA	468	544	NA	NA	NA
1950	69	NA	532	NA	NA	NA	532	602	NA	NA	NA
1955	38	NA	631	NA	NA	NA	631	669	NA	NA	NA
1960	39	NA	680	NA	NA	NA	680	719	NA	NA	NA
1965	33	NA	855	NA	NA	NA	855	888	NA	NA	NA
1970	34	NA	1,019	NA	NA	NA	1,019	1,053	NA	NA	NA
1971	34	NA	1,040	NA	NA	NA	1,040	1,074	NA	NA	NA
1972	34	NA	1,113	NA	NA	NA	1,113	1,147	NA	NA	NA
1973	35	NA	1,165	NA	NA	NA	1,165	1,200	NA	NA	NA
1974	33	NA	1,159	NA	NA	NA	1,159	1,192	NA	NA	NA
1975	32	NA	1,063	NA	NA	NA	1,063	1,096	NA	NA	NA
1976	33	NA	1,220	NA	NA	NA	1,220	1,253	NA	NA	NA
1977	33	NA	1,281	NA	NA	NA	1,281	1,314	NA	NA	NA
1978	32	NA	1,400	NA	NA	NA	1,400	1,432	NA	NA	NA
1979	34	NA	1,405	NA	NA	NA	1,405	1,439	NA	NA	NA
1980	33	NA	1,600	NA	NA	NA	1,600	1,633	NA	NA	NA
1981	33	NA	1,602	87	(s)	6	1,695	1,728	7	NA	7
1982	33	NA	1,516	118	(s)	16	R1,650	R1,683	19	NA	19
1983	33	NA	1,690	155	(s)	R29	R1,875	R1,908	34	NA	34
1984	33	NA	1,679	204	1	R36	R1,919	R1,952	42	NA	42
1985	33	NA	1,645	230	1	R43	R1,919	R1,952	51	NA	51
1986	33	NA	1,610	256	1	R49	R1,916	R1,949	59	NA	59
1987	33	NA	1,576	282	1	R56	R1,915	R1,948	67	NA	67
1988	33	NA	1,625	308	1	R57	R1,990	R2,023	68	NA	68
1989	28	2	1,584	200	1	R57	R1,842	R1,872	69	NA	69
1990	31	2	1,442	192	1	R50	R1,685	R1,718	62	NA	62
1991	30	2	1,410	185	1	R58	R1,653	R1,685	72	NA	72
1992	31	2	1,461	179	1	R65	R1,706	R1,739	81	NA	81
1993	30	2	1,484	181	1	R76	R1,742	R1,774	96	NA	96
1994	62	3	1,580	199	1	R84	R1,864	R1,929	107	NA	107
1995	55	3	1,652	195	2	R87	R1,936	R1,994	115	NA	115
1996	61	3	1,683	224	1	R62	1,970	R2,034	82	NA	82
1997	58	3	1,731	184	1	R82	R1,998	R2,059	104	NA	104
1998	55	3	1,603	180	1	88	1,873	1,931	115	NA	115
1999	49	4	1,620	171	1	92	1,883	1,936	120	NA	120
2000	42	4	1,636	145	1	101	1,884	1,930	138	NA	138
2001	33	5	1,443	129	3	110	1,684	1,721	144	1	145
2002	39	5	1,396	146	3	133	1,679	R1,722	171	R2	R173
2003	43	3	1,363	142	5	R173	1,684	R1,730	233	2	R234
2004	33	4	1,476	132	6	210	1,824	R1,860	292	R3	R295
2005	32	4	1,452	148	7	R240	R1,847	R1,883	334	12	346
2006	29	4	1,515	R147	R10	R300	R1,972	R2,005	451	R33	R484
2007	R16	5	1,457	R162	R10	R399	R2,028	R2,048	R568	R46	R614
2008 ^P	19	5	1,298	157	14	563	2,032	2,056	792	41	833

¹ Industrial sector, including 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.

² Conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate).

³ Geothermal heat pump and direct use energy.

⁴ Wood and wood-derived fuels.

⁵ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

⁶ The ethanol portion of motor fuels (such as E10) consumed by the industrial sector.

⁷ Losses and co-products from the production of fuel ethanol and biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol and biodiesel—these

are included in the industrial sector consumption statistics for the appropriate energy source.

⁸ The ethanol portion of motor fuels (such as E10 and E85) consumed by the transportation sector.

⁹ "Biodiesel" is any liquid biofuel suitable as a diesel fuel substitute, additive, or extender. See "Biodiesel" in Glossary.

R=Revised. P=Preliminary. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • All values are estimated, except for industrial sector hydroelectric power in 1949-1978 and 1989 forward. • Totals may not equal sum of components due to independent rounding.

Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/renew.html>.

• For related information, see <http://www.eia.doe.gov/fuelrenewable.html>.

Sources: See end of section.