

**Table 10.2b Renewable Energy Consumption: Industrial Sector**  
(Trillion Btu)

	Industrial Sector <sup>a</sup>									
	Hydro- electric Power <sup>b</sup>	Geo- thermal <sup>c</sup>	Solar <sup>d</sup>	Wind <sup>e</sup>	Biomass				Total	Total
					Wood <sup>f</sup>	Waste <sup>g</sup>	Fuel Ethanol <sup>h,i</sup>	Losses and Co- products <sup>j</sup>		
1950 Total .....	17	NA	NA	NA	532	NA	NA	NA	532	549
1955 Total .....	11	NA	NA	NA	631	NA	NA	NA	631	642
1960 Total .....	12	NA	NA	NA	680	NA	NA	NA	680	692
1965 Total .....	11	NA	NA	NA	855	NA	NA	NA	855	866
1970 Total .....	11	NA	NA	NA	1,019	NA	NA	NA	1,019	1,030
1975 Total .....	11	NA	NA	NA	1,063	NA	NA	NA	1,063	1,074
1980 Total .....	11	NA	NA	NA	1,600	NA	NA	NA	1,600	1,611
1985 Total .....	11	NA	NA	NA	1,645	230	1	42	1,918	1,928
1990 Total .....	10	2	(s)	—	1,442	192	1	49	1,684	1,696
1995 Total .....	18	3	(s)	—	1,652	195	2	86	1,934	1,955
2000 Total .....	14	4	(s)	—	1,636	145	1	99	1,881	1,900
2005 Total .....	11	4	(s)	—	1,452	148	7	227	1,834	1,849
2010 Total .....	6	4	1	—	1,409	168	17	727	2,320	2,331
2011 Total .....	6	4	1	(s)	1,438	165	17	756	2,375	2,387
2012 Total .....	8	4	2	(s)	1,462	159	17	711	2,349	2,363
2013 Total .....	12	4	3	(s)	1,489	187	18	714	2,407	2,427
2014 Total .....	4	4	4	(s)	1,495	190	14	766	2,466	2,478
2015 Total .....	5	4	5	(s)	1,476	190	<sup>i</sup> 18	791	2,474	2,489
2016 Total .....	4	4	7	(s)	1,474	174	18	821	2,487	2,503
2017 Total .....	5	4	8	(s)	1,442	168	18	847	2,475	2,493
2018 Total .....	4	4	9	(s)	1,432	165	19	855	2,471	2,489
2019 Total .....	4	4	11	(s)	1,407	156	19	835	2,416	2,435
2020 Total .....	3	4	12	(s)	1,356	160	19	735	2,270	2,290
2021 Total .....	3	4	14	(s)	1,366	161	19	789	2,336	2,357
2022 Total .....	3	4	15	(s)	1,309	161	20	808	2,297	2,320
2023 January .....	(s)	(s)	1	(s)	110	14	2	69	<sup>R</sup> 194	196
February .....	(s)	(s)	1	(s)	97	12	1	62	173	175
March .....	(s)	(s)	1	(s)	107	14	2	68	189	192
April .....	(s)	(s)	2	(s)	98	13	2	64	177	179
May .....	(s)	(s)	2	(s)	104	13	2	68	188	190
June .....	(s)	(s)	2	(s)	97	12	2	69	180	182
July .....	(s)	(s)	2	(s)	103	12	2	71	187	189
August .....	(s)	(s)	2	(s)	105	12	2	69	187	189
September .....	(s)	(s)	1	(s)	101	12	2	67	181	183
October .....	(s)	(s)	1	(s)	100	13	2	70	186	187
November .....	(s)	(s)	1	(s)	104	13	2	70	189	190
December .....	(s)	(s)	1	(s)	107	14	2	74	197	198
Total .....	3	4	16	(s)	1,235	153	20	819	<sup>R</sup> 2,227	2,251
2024 January .....	(s)	(s)	1	(s)	105	14	2	68	187	189
February .....	(s)	(s)	1	(s)	95	13	2	69	178	180
March .....	(s)	(s)	2	(s)	104	13	2	73	192	194
April .....	(s)	(s)	2	(s)	102	13	2	65	181	184
May .....	(s)	(s)	2	(s)	103	14	2	70	188	191
June .....	(s)	(s)	2	(s)	97	12	2	69	179	181
July .....	(s)	(s)	2	(s)	101	12	2	75	189	192
August .....	(s)	(s)	2	(s)	105	12	2	74	193	195
September .....	(s)	(s)	2	(s)	102	12	2	69	184	187
October .....	(s)	(s)	1	(s)	98	13	2	73	186	188
November .....	(s)	(s)	1	(s)	103	13	2	74	192	194
December .....	(s)	(s)	1	(s)	105	13	2	76	196	198
Total .....	3	4	18	(s)	1,219	153	20	854	2,246	2,271
2025 January .....	(s)	(s)	1	(s)	103	13	2	74	192	194

<sup>a</sup> 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 7.

<sup>b</sup> Conventional hydroelectricity net generation (converted to Btu by multiplying by the heat content of electricity in Table A6).

<sup>c</sup> Geothermal heat pump and direct use energy.

<sup>d</sup> Solar photovoltaic (PV) electricity net generation in the industrial sector (converted to Btu by multiplying by the heat content of electricity in Table A6), both utility-scale and small-scale. See Table 10.5.

<sup>e</sup> Wind electricity net generation (converted to Btu by multiplying by the heat content of electricity in Table A6).

<sup>f</sup> Wood and wood-derived fuels.

<sup>g</sup> 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).

<sup>h</sup> The fuel ethanol (minus denaturant) portion of motor fuels, such as E10, consumed by the industrial sector.

<sup>i</sup> There is a discontinuity in this time series between 2014 and 2015 due to a

change in the method for allocating motor gasoline consumption to the end-use sectors. Beginning in 2015, the commercial and industrial sector shares of fuel ethanol consumption are larger than in 2014, while the transportation sector share is smaller.

<sup>j</sup> 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.

<sup>R</sup>=Revised. NA=Not available. —=No data reported. (s)=Less than 0.5 trillion Btu.

Notes: • Industrial sector data are estimates, except for hydroelectric power in 1949–1978 and 1989 forward, and wind. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#renewable> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.