

**Table 10.2b Renewable Energy Consumption: Industrial and Transportation Sectors**  
(Trillion Btu)

	Industrial Sector <sup>a</sup>										Transportation Sector		
	Hydro-electric Power <sup>b</sup>	Geo-thermal <sup>c</sup>	Solar <sup>d</sup>	Wind <sup>e</sup>	Biomass					Total	Biomass		
					Wood <sup>f</sup>	Waste <sup>g</sup>	Fuel Ethanol <sup>h,i</sup>	Losses and Co-products <sup>j</sup>	Total		Fuel Ethanol <sup>i,k</sup>	Bio-diesel <sup>l</sup>	Total <sup>m</sup>
1950 Total .....	69	NA	NA	NA	532	NA	NA	NA	532	602	NA	NA	NA
1955 Total .....	38	NA	NA	NA	631	NA	NA	NA	631	669	NA	NA	NA
1960 Total .....	39	NA	NA	NA	680	NA	NA	NA	680	719	NA	NA	NA
1965 Total .....	33	NA	NA	NA	855	NA	NA	NA	855	888	NA	NA	NA
1970 Total .....	34	NA	NA	NA	1,019	NA	NA	NA	1,019	1,053	NA	NA	NA
1975 Total .....	32	NA	NA	NA	1,063	NA	NA	NA	1,063	1,096	NA	NA	NA
1980 Total .....	33	NA	NA	NA	1,600	NA	NA	NA	1,600	1,633	NA	NA	NA
1985 Total .....	33	NA	NA	NA	1,645	230	1	42	1,918	1,951	50	NA	50
1990 Total .....	31	2	(s)	—	1,442	192	1	49	1,684	1,717	60	NA	60
1995 Total .....	55	3	(s)	—	1,652	195	2	86	1,934	1,992	112	NA	112
2000 Total .....	42	4	(s)	—	1,636	145	1	99	1,881	1,928	135	NA	135
2001 Total .....	33	5	(s)	—	1,443	129	3	108	1,681	1,719	141	1	142
2002 Total .....	39	5	(s)	—	1,396	146	3	130	1,676	1,720	168	2	170
2003 Total .....	43	3	(s)	—	1,363	142	4	168	1,678	1,725	228	2	230
2004 Total .....	33	4	(s)	—	1,476	132	6	201	1,815	1,852	286	3	290
2005 Total .....	32	4	(s)	—	1,452	148	7	227	1,834	1,871	327	12	339
2006 Total .....	29	4	1	—	1,472	130	10	280	1,892	1,926	442	33	475
2007 Total .....	16	5	1	—	1,413	145	10	369	1,937	1,958	557	45	602
2008 Total .....	17	5	1	—	1,339	143	12	519	2,012	2,035	786	39	825
2009 Total .....	18	4	2	—	1,178	154	13	603	1,948	1,972	894	41	935
2010 Total .....	16	4	3	—	1,273	168	17	727	2,185	2,208	1,041	33	1,075
2011 Total .....	17	4	4	(s)	1,309	165	17	756	2,246	2,272	1,045	113	1,158
2012 Total .....	22	4	7	(s)	1,339	159	17	711	2,226	2,259	1,045	115	1,162
2013 Total .....	33	4	9	(s)	1,312	187	18	709	2,226	2,272	1,072	182	1,278
2014 January .....	1	(s)	1	(s)	113	16	1	63	193	195	87	10	99
February .....	1	(s)	1	(s)	102	15	1	56	175	177	82	10	93
March .....	1	(s)	1	(s)	112	17	1	62	192	194	88	14	103
April .....	1	(s)	1	(s)	107	17	1	62	187	189	<sup>R</sup> 90	12	104
May .....	1	(s)	1	(s)	109	15	1	64	190	192	94	15	110
June .....	1	(s)	1	(s)	111	15	1	64	190	193	92	16	108
July .....	1	(s)	1	(s)	114	16	1	65	196	199	96	15	113
August .....	1	(s)	1	(s)	115	15	1	64	195	198	95	19	117
September .....	1	(s)	1	(s)	107	14	1	62	185	187	89	19	109
October .....	1	(s)	1	(s)	110	17	1	64	192	194	96	16	115
November .....	1	(s)	1	(s)	109	16	1	64	190	192	92	17	108
December .....	1	(s)	1	(s)	116	17	1	68	202	204	94	18	113
Total .....	12	4	11	1	1,325	190	14	757	<sup>R</sup> 2,286	2,314	1,093	181	<sup>R</sup> 1,292
2015 January .....	1	(s)	1	(s)	114	17	<sup>i</sup> 1	65	198	200	<sup>i,R</sup> 88	6	<sup>R</sup> 94
February .....	1	(s)	1	(s)	102	15	1	59	177	179	<sup>R</sup> 83	11	<sup>R</sup> 95
March .....	1	(s)	1	(s)	106	17	1	65	<sup>R</sup> 190	192	<sup>R</sup> 92	13	<sup>R</sup> 107
April .....	1	(s)	1	(s)	106	16	1	61	185	188	<sup>R</sup> 88	15	<sup>R</sup> 105
May .....	1	(s)	1	(s)	109	16	<sup>R</sup> 2	65	192	195	<sup>R</sup> 97	18	<sup>R</sup> 116
June .....	1	(s)	1	(s)	106	15	1	65	188	191	<sup>R</sup> 94	21	<sup>R</sup> 117
July .....	1	(s)	1	(s)	111	16	<sup>R</sup> 2	67	195	198	<sup>R</sup> 97	18	<sup>R</sup> 118
August .....	1	(s)	1	(s)	111	16	<sup>R</sup> 2	66	194	<sup>R</sup> 197	<sup>R</sup> 98	20	<sup>R</sup> 120
September .....	1	(s)	1	(s)	106	15	1	63	<sup>R</sup> 186	188	<sup>R</sup> 94	20	<sup>R</sup> 116
October .....	1	(s)	1	(s)	105	17	1	66	189	192	<sup>R</sup> 94	17	<sup>R</sup> 114
November .....	1	(s)	1	(s)	107	17	1	65	190	193	<sup>R</sup> 92	14	<sup>R</sup> 110
December .....	1	(s)	1	(s)	110	18	1	68	198	200	<sup>R</sup> 93	17	<sup>R</sup> 113
Total .....	13	4	14	(s)	1,295	194	<sup>R</sup> 18	776	<sup>R</sup> 2,283	<sup>R</sup> 2,315	<sup>R</sup> 1,109	191	<sup>R</sup> 1,325
2016 January .....	1	(s)	1	(s)	112	16	1	66	195	<sup>R</sup> 198	<sup>R</sup> 88	13	<sup>R</sup> 102
February .....	1	(s)	1	(s)	102	15	1	62	181	184	<sup>R</sup> 91	15	<sup>R</sup> 108
March .....	1	(s)	1	(s)	105	16	<sup>R</sup> 2	67	190	193	<sup>R</sup> 98	16	<sup>R</sup> 117
April .....	1	(s)	2	(s)	101	16	1	61	179	<sup>R</sup> 183	<sup>R</sup> 90	17	<sup>R</sup> 109
May .....	1	(s)	2	(s)	105	16	<sup>R</sup> 2	66	189	192	<sup>R</sup> 97	22	<sup>R</sup> 121
June .....	1	(s)	2	(s)	106	16	<sup>R</sup> 2	66	<sup>R</sup> 190	193	<sup>R</sup> 97	21	<sup>R</sup> 121
July .....	1	(s)	2	(s)	108	17	<sup>R</sup> 2	68	195	198	<sup>R</sup> 100	27	<sup>R</sup> 129
August .....	1	(s)	2	(s)	108	16	<sup>R</sup> 2	69	194	197	<sup>R</sup> 101	28	<sup>R</sup> 131
September .....	1	(s)	2	(s)	102	15	1	65	184	186	<sup>R</sup> 94	26	<sup>R</sup> 123
October .....	1	(s)	1	(s)	103	14	1	67	187	189	94	26	122
10-Month Total ...	10	4	15	1	1,052	158	15	659	1,883	1,913	951	211	1,182
2015 10-Month Total ...	11	3	12	(s)	1,078	160	15	642	1,895	1,921	924	160	1,103
2014 10-Month Total ...	10	3	9	(s)	1,100	157	12	625	1,894	1,918	908	146	1,071

<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 total fossil fuels heat rate factors 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 total fossil fuels heat rate factors in Table A6), both utility-scale and distributed (small-scale). See Table 10.5.

<sup>e</sup> Wind electricity net generation (converted to Btu by multiplying by the total fossil fuels heat rate factors 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>k</sup> The fuel ethanol (minus denaturant) portion of motor fuels, such as E10 and E85, consumed by the transportation sector.

<sup>l</sup> Although there is biodiesel use in other sectors, all biodiesel consumption is assigned to the transportation sector.

<sup>m</sup> Beginning in 2009, includes imports minus stock change of other renewable diesel fuel and other renewable fuels. See "Renewable Diesel Fuel (Other)" and "Renewable Fuels (Other)" in Glossary.

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

Notes: • Data are estimates, except for industrial sector 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.