

**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>j,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	—	1,409	168	17	727	2,320	2,343	1,041	33	1,075
2011 Total	17	4	4	(s)	1,438	165	17	756	2,375	2,401	1,045	113	1,158
2012 Total	22	4	7	(s)	1,462	159	17	711	2,349	2,382	1,045	115	1,162
2013 Total	33	4	9	(s)	1,489	187	18	709	2,403	2,449	1,072	182	1,278
2014 Total	12	4	11	1	1,495	190	14	757	2,456	2,484	1,093	181	1,292
2015 Total	13	4	14	(s)	1,476	190	<sup>i</sup> 18	776	2,460	2,491	<sup>i</sup> 1,110	191	1,326
2016 January	1	(s)	1	(s)	127	15	1	66	209	212	88	13	102
February	1	(s)	1	(s)	119	15	1	63	197	200	90	15	107
March	1	(s)	2	(s)	121	16	2	67	206	210	96	17	116
April	1	(s)	2	(s)	115	15	1	61	193	196	89	18	108
May	1	(s)	2	(s)	121	15	2	66	204	207	97	23	122
June	1	(s)	2	(s)	121	13	2	66	202	205	97	21	122
July	1	(s)	2	(s)	124	14	2	69	208	211	99	27	128
August	1	(s)	2	(s)	124	14	2	70	209	213	101	28	131
September	1	(s)	2	(s)	117	13	1	66	197	200	94	26	124
October	1	(s)	2	(s)	120	15	2	68	204	207	96	25	123
November	1	(s)	1	(s)	122	15	1	67	206	208	95	26	124
December	1	(s)	1	(s)	143	16	2	71	231	234	100	26	127
Total	12	4	19	1	1,474	174	18	801	2,467	2,503	1,143	266	1,434
2017 January	1	(s)	1	(s)	128	15	1	<sup>R</sup> 71	<sup>R</sup> 216	<sup>R</sup> 219	<sup>R</sup> 91	13	<sup>R</sup> 107
February	1	(s)	1	(s)	118	14	1	63	<sup>R</sup> 197	<sup>R</sup> 199	<sup>R</sup> 84	<sup>R</sup> 14	100
March	1	(s)	2	(s)	124	15	<sup>R</sup> 2	70	<sup>R</sup> 210	<sup>R</sup> 214	<sup>R</sup> 96	19	<sup>R</sup> 118
April	1	(s)	2	(s)	119	14	1	64	198	202	<sup>R</sup> 94	21	<sup>R</sup> 117
May	1	(s)	2	(s)	121	13	2	69	<sup>R</sup> 205	<sup>R</sup> 209	<sup>R</sup> 100	25	<sup>R</sup> 128
June	1	(s)	2	(s)	122	12	2	<sup>R</sup> 67	202	206	100	25	128
July	1	(s)	3	(s)	127	13	2	68	<sup>R</sup> 210	<sup>R</sup> 214	<sup>R</sup> 99	<sup>R</sup> 24	<sup>R</sup> 125
August	1	(s)	2	(s)	129	13	2	<sup>R</sup> 71	214	218	<sup>R</sup> 103	<sup>R</sup> 26	<sup>R</sup> 130
September	1	(s)	2	(s)	118	12	2	<sup>R</sup> 67	198	<sup>R</sup> 202	<sup>R</sup> 96	22	<sup>R</sup> 120
October	1	(s)	2	(s)	122	14	2	<sup>R</sup> 70	207	210	<sup>R</sup> 99	<sup>R</sup> 22	123
November	1	(s)	2	(s)	122	15	2	<sup>R</sup> 71	209	212	97	21	<sup>R</sup> 120
December	1	(s)	1	(s)	131	15	2	71	218	221	<sup>R</sup> 97	<sup>R</sup> 21	<sup>R</sup> 121
Total	13	4	24	1	1,480	165	18	<sup>R</sup> 821	<sup>R</sup> 2,485	<sup>R</sup> 2,527	<sup>R</sup> 1,155	<sup>R</sup> 253	<sup>R</sup> 1,436
2018 January	1	(s)	2	(s)	127	15	2	70	213	216	98	18	117
February	1	(s)	2	(s)	118	14	1	63	196	199	81	14	98
March	1	(s)	2	(s)	124	15	2	69	210	214	96	20	117
April	1	(s)	2	(s)	122	14	1	66	203	207	88	20	109
May	1	(s)	3	(s)	124	14	2	69	209	213	103	21	126
June	1	(s)	3	(s)	123	12	2	69	205	209	98	22	121
6-Month Total	7	2	13	1	737	84	9	406	1,236	1,259	563	115	688
2017 6-Month Total	7	2	11	(s)	731	84	9	404	1,228	1,249	564	118	698
2016 6-Month Total	7	2	9	(s)	724	88	9	391	1,212	1,230	558	107	677

<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 other renewable fuels consumption, which includes other renewable diesel fuel imports minus stock change, and other renewable fuels imports. 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.