

**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</sup>	Losses and Co-products <sup>i</sup>	Total		Fuel Ethanol <sup>j</sup>	Bio-diesel <sup>k</sup>	Total <sup>l</sup>
<b>1950 Total</b> .....	69	NA	NA	NA	532	NA	NA	NA	532	602	NA	NA	NA
<b>1955 Total</b> .....	38	NA	NA	NA	631	NA	NA	NA	631	669	NA	NA	NA
<b>1960 Total</b> .....	39	NA	NA	NA	680	NA	NA	NA	680	719	NA	NA	NA
<b>1965 Total</b> .....	33	NA	NA	NA	855	NA	NA	NA	855	888	NA	NA	NA
<b>1970 Total</b> .....	34	NA	NA	NA	1,019	NA	NA	NA	1,019	1,053	NA	NA	NA
<b>1975 Total</b> .....	32	NA	NA	NA	1,063	NA	NA	NA	1,063	1,096	NA	NA	NA
<b>1980 Total</b> .....	33	NA	NA	NA	1,600	NA	NA	NA	1,600	1,633	NA	NA	NA
<b>1985 Total</b> .....	33	NA	NA	NA	1,645	230	1	42	1,918	1,951	50	NA	50
<b>1990 Total</b> .....	31	2	(s)	—	1,442	192	1	49	1,684	1,717	60	NA	60
<b>1995 Total</b> .....	55	3	(s)	—	1,652	195	2	86	1,934	1,992	112	NA	112
<b>2000 Total</b> .....	42	4	(s)	—	1,636	145	1	99	1,881	1,928	135	NA	135
<b>2001 Total</b> .....	33	5	(s)	—	1,443	129	3	108	1,681	1,719	141	1	142
<b>2002 Total</b> .....	39	5	(s)	—	1,396	146	3	130	1,676	1,720	168	2	170
<b>2003 Total</b> .....	43	3	(s)	—	1,363	142	4	168	1,678	1,725	228	2	230
<b>2004 Total</b> .....	33	4	(s)	—	1,476	132	6	201	1,815	1,852	286	3	290
<b>2005 Total</b> .....	32	4	(s)	—	1,452	148	7	227	1,834	1,871	327	12	339
<b>2006 Total</b> .....	29	4	1	—	1,472	130	10	280	1,892	1,926	442	33	475
<b>2007 Total</b> .....	16	5	1	—	1,413	145	10	369	1,937	1,958	557	45	602
<b>2008 Total</b> .....	17	5	1	—	1,339	143	12	519	2,012	2,035	786	39	825
<b>2009 Total</b> .....	18	4	2	—	1,178	154	13	603	1,948	1,972	894	41	935
<b>2010 Total</b> .....	16	4	3	—	1,273	168	17	727	2,185	2,208	1,041	33	1,075
<b>2011 Total</b> .....	17	4	4	(s)	1,309	165	17	756	2,246	2,272	1,045	113	1,158
<b>2012 Total</b> .....	22	4	7	(s)	1,339	159	17	711	2,226	2,259	1,045	115	1,162
<b>2013 Total</b> .....	33	4	9	(s)	1,312	187	18	709	2,226	2,272	1,072	<sup>R</sup> 182	<sup>R</sup> 1,278
<b>2014 January</b> .....	1	(s)	1	(s)	113	16	1	63	193	195	87	10	99
<b>February</b> .....	1	(s)	1	(s)	102	15	1	56	175	177	82	10	93
<b>March</b> .....	1	(s)	1	(s)	112	17	1	62	192	194	88	14	103
<b>April</b> .....	1	(s)	1	(s)	107	17	1	62	187	189	89	12	104
<b>May</b> .....	1	(s)	1	(s)	109	15	1	64	190	192	94	15	110
<b>June</b> .....	1	(s)	1	(s)	111	15	1	64	190	193	92	16	108
<b>July</b> .....	1	(s)	1	(s)	114	16	1	65	196	199	96	15	113
<b>August</b> .....	1	(s)	1	(s)	115	15	1	64	195	198	95	19	117
<b>September</b> .....	1	(s)	1	(s)	107	14	1	62	185	187	89	19	109
<b>October</b> .....	1	(s)	1	(s)	110	17	1	64	192	194	96	16	115
<b>November</b> .....	1	(s)	1	(s)	109	16	1	64	190	192	92	17	108
<b>December</b> .....	1	(s)	1	(s)	116	17	1	68	202	204	94	18	113
<b>Total</b> .....	12	4	11	1	1,325	190	14	757	2,287	2,314	1,093	181	1,291
<b>2015 January</b> .....	1	(s)	1	(s)	<sup>R</sup> 114	<sup>R</sup> 17	1	65	<sup>R</sup> 198	<sup>R</sup> 200	89	6	96
<b>February</b> .....	1	(s)	1	(s)	<sup>R</sup> 102	<sup>R</sup> 15	1	59	<sup>R</sup> 177	<sup>R</sup> 179	85	11	97
<b>March</b> .....	1	(s)	1	(s)	106	<sup>R</sup> 17	1	65	<sup>R</sup> 189	<sup>R</sup> 192	94	13	109
<b>April</b> .....	1	(s)	1	(s)	106	<sup>R</sup> 16	1	61	185	188	90	15	107
<b>May</b> .....	1	(s)	1	(s)	<sup>R</sup> 109	<sup>R</sup> 16	1	65	192	<sup>R</sup> 195	99	18	118
<b>June</b> .....	1	(s)	1	(s)	106	<sup>R</sup> 15	1	65	<sup>R</sup> 188	<sup>R</sup> 191	96	21	119
<b>July</b> .....	1	(s)	1	(s)	111	<sup>R</sup> 16	1	67	<sup>R</sup> 195	<sup>R</sup> 198	99	18	120
<b>August</b> .....	1	(s)	1	(s)	<sup>R</sup> 111	16	1	66	<sup>R</sup> 194	<sup>R</sup> 196	100	20	122
<b>September</b> .....	1	(s)	1	(s)	<sup>R</sup> 106	<sup>R</sup> 15	1	63	185	<sup>R</sup> 188	96	20	118
<b>October</b> .....	1	(s)	1	(s)	<sup>R</sup> 105	17	1	66	<sup>R</sup> 189	<sup>R</sup> 192	97	17	116
<b>November</b> .....	1	(s)	1	(s)	<sup>R</sup> 107	<sup>R</sup> 17	1	65	<sup>R</sup> 190	<sup>R</sup> 193	94	14	112
<b>December</b> .....	1	(s)	1	(s)	<sup>R</sup> 110	<sup>R</sup> 18	1	68	<sup>R</sup> 198	<sup>R</sup> 200	95	17	115
<b>Total</b> .....	13	4	14	<sup>R</sup> (s)	<sup>R</sup> 1,295	<sup>R</sup> 194	15	776	<sup>R</sup> 2,280	<sup>R</sup> 2,312	1,134	191	1,350
<b>2016 January</b> .....	1	(s)	1	(s)	<sup>R</sup> 112	16	1	66	<sup>R</sup> 195	<sup>R</sup> 197	90	13	104
<b>February</b> .....	1	(s)	1	(s)	<sup>R</sup> 102	15	1	62	<sup>R</sup> 181	<sup>R</sup> 184	93	15	110
<b>March</b> .....	1	(s)	1	(s)	<sup>R</sup> 105	16	1	67	<sup>R</sup> 190	<sup>R</sup> 193	100	16	119
<b>April</b> .....	1	(s)	2	(s)	<sup>R</sup> 101	<sup>R</sup> 16	1	61	<sup>R</sup> 179	<sup>R</sup> 182	92	17	111
<b>May</b> .....	1	(s)	2	(s)	105	16	1	66	<sup>R</sup> 189	192	99	22	123
<b>June</b> .....	1	(s)	2	(s)	<sup>R</sup> 106	16	1	66	<sup>R</sup> 189	<sup>R</sup> 193	99	21	123
<b>July</b> .....	1	(s)	2	(s)	<sup>R</sup> 108	<sup>R</sup> 17	1	68	<sup>R</sup> 195	<sup>R</sup> 198	102	27	131
<b>August</b> .....	1	(s)	2	(s)	<sup>R</sup> 108	16	1	69	<sup>R</sup> 194	<sup>R</sup> 197	103	28	133
<b>September</b> .....	1	(s)	2	(s)	102	15	1	65	184	186	96	26	125
<b>9-Month Total</b> .....	10	3	14	1	948	143	12	591	1,695	1,721	875	185	1,079
<b>2015 9-Month Total</b> .....	9	3	11	(s)	973	143	11	577	1,704	1,727	848	143	1,007
<b>2014 9-Month Total</b> .....	9	3	9	(s)	990	141	11	561	1,703	1,724	811	130	956

<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> 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>j</sup> The fuel ethanol (minus denaturant) portion of motor fuels, such as E10 and E85, consumed by the transportation sector.

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

<sup>l</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.

<sup>R</sup>=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.