

**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>		Fuel Ethanol <sup>l,k</sup>	Bio-diesel <sup>l</sup>	Total <sup>m</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	—	1,409	168	17	727	2,320	2,343	1,041	33	1,075
<b>2011 Total</b> .....	17	4	4	(s)	1,438	165	17	756	2,375	2,401	1,045	113	1,158
<b>2012 Total</b> .....	22	4	7	(s)	1,462	159	17	711	2,349	2,382	1,045	115	1,162
<b>2013 Total</b> .....	33	4	9	(s)	1,489	187	18	709	2,403	2,449	1,072	182	1,278
<b>2014 Total</b> .....	12	4	11	1	1,495	190	14	757	2,456	2,484	1,093	181	1,292
<b>2015 Total</b> .....	13	4	14	(s)	1,476	190	18	776	2,460	2,491	1,110	191	1,326
<b>2016 January</b> .....	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
<b>Total</b> .....	<b>12</b>	<b>4</b>	<b>19</b>	<b>1</b>	<b>1,474</b>	<b>174</b>	<b>18</b>	<b>801</b>	<b>2,467</b>	<b>2,503</b>	<b>1,143</b>	<b>266</b>	<b>1,434</b>
<b>2017 January</b> .....	1	(s)	1	(s)	128	15	1	70	215	218	89	13	104
February .....	1	(s)	1	(s)	118	14	1	63	196	199	85	13	100
March .....	1	(s)	2	(s)	124	15	1	70	210	213	95	19	117
April .....	1	(s)	2	(s)	119	14	1	64	198	202	93	21	116
May .....	1	(s)	2	(s)	121	13	2	69	204	208	99	25	127
June .....	1	(s)	2	(s)	122	12	2	66	202	206	100	25	128
July .....	1	(s)	3	(s)	127	13	2	68	209	213	98	26	126
August .....	1	(s)	2	(s)	129	13	2	70	214	218	101	25	128
September .....	1	(s)	2	(s)	118	12	2	66	198	201	95	22	121
October .....	1	(s)	2	(s)	122	14	2	69	207	210	100	21	123
November .....	1	(s)	2	(s)	122	15	2	70	209	212	97	21	119
December .....	1	(s)	1	(s)	131	15	2	71	218	221	96	19	117
<b>Total</b> .....	<b>13</b>	<b>4</b>	<b>24</b>	<b>1</b>	<b>1,480</b>	<b>165</b>	<b>18</b>	<b>817</b>	<b>2,480</b>	<b>2,522</b>	<b>1,148</b>	<b>249</b>	<b>1,425</b>
<b>2018 January</b> .....	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
<b>3-Month Total</b> .....	<b>3</b>	<b>1</b>	<b>5</b>	<b>(s)</b>	<b>368</b>	<b>44</b>	<b>4</b>	<b>202</b>	<b>619</b>	<b>629</b>	<b>275</b>	<b>52</b>	<b>331</b>
<b>2017 3-Month Total</b> .....	<b>3</b>	<b>1</b>	<b>5</b>	<b>(s)</b>	<b>370</b>	<b>44</b>	<b>4</b>	<b>203</b>	<b>621</b>	<b>630</b>	<b>269</b>	<b>45</b>	<b>320</b>
<b>2016 3-Month Total</b> .....	<b>4</b>	<b>1</b>	<b>4</b>	<b>(s)</b>	<b>367</b>	<b>45</b>	<b>4</b>	<b>197</b>	<b>613</b>	<b>622</b>	<b>274</b>	<b>45</b>	<b>325</b>

<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.

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.