

**Table 10.2c Renewable Energy Consumption: Transportation and Electric Power Sectors**  
(Trillion Btu)

	Transportation Sector					Electric Power Sector <sup>a</sup>							
	Biomass					Hydro-electric Power <sup>j</sup>	Geo-thermal <sup>h</sup>	Solar <sup>i</sup>	Wind <sup>i</sup>	Biomass			Total
	Fuel Ethanol <sup>b,c</sup>	Bio-diesel <sup>d</sup>	Renewable Diesel Fuel <sup>e</sup>	Other Biofuels <sup>f</sup>	Total					Wood <sup>k</sup>	Waste <sup>l</sup>	Total	
1950 Total	NA	NA	NA	NA	NA	1,346	NA	NA	NA	5	NA	5	1,351
1955 Total	NA	NA	NA	NA	NA	1,322	NA	NA	NA	3	NA	3	1,325
1960 Total	NA	NA	NA	NA	NA	1,569	(s)	NA	NA	2	NA	2	1,571
1965 Total	NA	NA	NA	NA	NA	2,026	2	NA	NA	3	NA	3	2,031
1970 Total	NA	NA	NA	NA	NA	2,600	6	NA	NA	1	2	4	2,609
1975 Total	NA	NA	NA	NA	NA	3,122	34	NA	NA	(s)	2	2	3,158
1980 Total	NA	NA	NA	NA	NA	2,867	53	NA	NA	3	2	4	2,925
1985 Total	50	NA	NA	NA	50	2,937	97	(s)	(s)	8	7	14	3,049
1990 Total	60	NA	NA	NA	60	3,014	161	4	29	129	188	317	3,524
1995 Total	112	NA	NA	NA	112	3,149	138	5	33	125	296	422	3,747
2000 Total	135	NA	NA	NA	135	2,768	144	5	57	134	318	453	3,427
2005 Total	327	12	NA	NA	339	2,670	147	6	178	185	221	406	3,406
2006 Total	442	33	NA	NA	475	2,839	145	5	264	182	231	412	3,665
2007 Total	557	45	NA	NA	602	2,430	145	6	341	186	237	423	3,345
2008 Total	786	39	NA	NA	825	2,494	146	9	546	177	258	435	3,630
2009 Total	894	41	NA	NA	935	2,650	146	9	721	180	261	441	3,967
2010 Total	1,041	33	NA	NA	1,075	2,521	148	12	923	196	264	459	4,064
2011 Total	1,045	113	8	NA	1,166	3,085	149	17	1,167	182	255	437	4,855
2012 Total	1,045	115	10	NA	1,169	2,606	148	40	1,339	190	262	453	4,586
2013 Total	1,072	182	39	NA	1,292	2,529	151	83	1,600	207	262	470	4,833
2014 Total	1,093	181	38	2	1,314	2,454	151	165	1,726	251	279	530	5,025
2015 Total	<sup>c</sup> 1,110	191	48	2	1,351	2,306	148	228	1,775	244	281	525	4,982
2016 Total	1,143	266	57	2	1,469	2,458	146	328	2,093	224	281	505	5,529
2017 Total	1,156	253	62	3	1,474	2,751	147	485	2,340	229	280	510	6,232
2018 Total	1,152	243	57	3	1,456	2,649	145	575	2,478	221	275	496	6,344
2019 Total	1,162	231	99	4	1,497	2,551	134	634	2,631	201	248	448	6,398
2020 Total	1,004	239	107	4	1,355	2,490	135	776	2,956	185	242	428	6,785
2021 January	78	13	10	(s)	102	216	12	49	266	18	20	38	581
February	74	17	10	1	101	177	11	56	236	17	18	35	515
March	93	19	12	1	125	187	11	82	346	16	20	37	662
April	88	19	13	1	120	170	11	96	320	13	19	32	629
May	99	20	14	1	134	205	11	109	299	15	20	34	659
June	97	17	13	1	128	207	11	107	236	17	19	36	596
July	100	19	11	1	131	195	12	107	192	19	19	38	543
August	97	19	15	1	132	179	11	105	239	19	19	38	573
September	92	18	11	1	120	150	12	99	256	16	19	35	551
October	101	19	17	1	139	151	11	81	285	14	18	33	561
November	96	18	16	1	132	170	12	69	316	15	18	34	600
December	95	19	16	1	132	208	13	54	352	17	20	37	663
Total	1,110	218	158	10	1,496	2,214	137	1,013	3,342	197	229	426	7,133
2022 January	86	11	16	1	113	231	13	72	337	17	19	35	688
February	81	14	14	1	111	202	11	82	336	18	17	35	666
March	95	17	18	1	132	223	12	105	380	16	19	35	755
April	90	19	17	2	128	172	11	118	406	13	17	30	738
May	97	17	18	2	133	203	12	134	368	16	18	34	750
June	97	17	22	2	139	237	12	141	296	18	18	36	721
July	94	18	18	2	132	213	12	138	259	20	18	38	661
August	100	18	21	3	142	191	12	127	215	19	18	37	583
September	89	15	19	2	125	148	12	119	239	17	17	34	551
October	99	19	21	3	141	129	12	108	290	15	17	32	570
November	94	20	18	2	134	165	13	75	370	15	17	33	655
December	92	17	22	3	134	192	13	62	347	17	17	34	649
Total	1,114	203	223	25	1,565	2,307	146	1,279	3,843	200	213	413	7,988
2023 January	92	18	25	3	138	202	12	71	345	16	18	34	665
February	83	17	24	2	125	170	11	82	371	14	16	30	665
March	97	20	28	3	149	182	12	108	392	15	17	32	725
April	91	18	28	2	139	158	12	132	379	10	15	26	705
May	98	23	38	3	162	247	12	149	283	14	16	31	722
5-Month Total	459	96	143	14	712	958	58	543	1,771	70	82	152	3,482
2022 5-Month Total	449	78	83	8	618	1,031	59	510	1,827	80	90	170	3,597
2021 5-Month Total	432	88	59	4	582	956	56	391	1,466	80	97	177	3,046

<sup>a</sup> Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

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

<sup>c</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>d</sup> "Biodiesel" is primarily fatty acid methyl esters (FAME). See "Biodiesel" in Glossary. Although there is use of biodiesel in other sectors, all consumption is assigned to the transportation sector.

<sup>e</sup> "Renewable diesel fuel," which is commonly called "non-ester renewable diesel" and "green diesel," is chemically similar to petroleum diesel fuel. Although there is use of renewable diesel fuel in other sectors, all consumption is assigned to the transportation sector.

<sup>f</sup> Renewable heating oil, renewable jet fuel (sustainable aviation fuel), renewable naphtha and gasoline, biobutanol, and other biofuels and biointermediates. Although there is use of these biofuels in other sectors, all consumption is assigned to the transportation sector.

<sup>g</sup> Conventional hydroelectricity net generation (converted to Btu by multiplying

by the total fossil fuels heat rate factors in Table A6).

<sup>h</sup> Geothermal electricity net generation (converted to Btu by multiplying by the total fossil fuels heat rate factors in Table A6).

<sup>i</sup> Solar photovoltaic (PV) and solar thermal electricity net generation in the electric power sector (converted to Btu by multiplying by the total fossil fuels heat rate factors in Table A6). See Table 10.5.

<sup>j</sup> Wind electricity net generation (converted to Btu by multiplying by the total fossil fuels heat rate factors in Table A6).

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

<sup>l</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).

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Transportation sector data are estimates, except for biodiesel beginning in 2012, and renewable diesel fuel and other biofuels beginning in 2021.

• 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.