

**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>g</sup>	Geo-thermal <sup>h</sup>	Solar <sup>i</sup>	Wind <sup>j</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	
<b>1950 Total</b> .....	NA	NA	NA	NA	NA	327	NA	NA	NA	5	NA	5	333
<b>1955 Total</b> .....	NA	NA	NA	NA	NA	385	NA	NA	NA	3	NA	3	389
<b>1960 Total</b> .....	NA	NA	NA	NA	NA	498	(s)	NA	NA	2	NA	2	499
<b>1965 Total</b> .....	NA	NA	NA	NA	NA	661	1	NA	NA	3	NA	3	665
<b>1970 Total</b> .....	NA	NA	NA	NA	NA	845	2	NA	NA	1	2	4	851
<b>1975 Total</b> .....	NA	NA	NA	NA	NA	1,024	11	NA	NA	(s)	2	2	1,037
<b>1980 Total</b> .....	NA	NA	NA	NA	NA	942	17	NA	NA	3	2	4	964
<b>1985 Total</b> .....	50	NA	NA	NA	50	959	32	(s)	(s)	8	7	14	1,006
<b>1990 Total</b> .....	60	NA	NA	NA	60	989	53	1	10	129	188	317	1,369
<b>1995 Total</b> .....	112	NA	NA	NA	112	1,042	46	2	11	125	296	422	1,522
<b>2000 Total</b> .....	135	NA	NA	NA	135	926	48	2	19	134	318	453	1,447
<b>2005 Total</b> .....	327	12	NA	NA	339	911	50	2	61	185	221	406	1,430
<b>2010 Total</b> .....	1,041	33	NA	NA	1,075	882	52	4	323	196	264	459	1,720
<b>2011 Total</b> .....	1,045	113	8	NA	1,166	1,083	52	6	410	182	255	437	1,988
<b>2012 Total</b> .....	1,045	115	10	NA	1,169	934	53	14	480	190	262	453	1,935
<b>2013 Total</b> .....	1,072	182	39	NA	1,292	904	54	30	572	207	262	470	2,030
<b>2014 Total</b> .....	1,093	181	38	2	1,314	880	54	59	619	251	279	530	2,143
<b>2015 Total</b> .....	<sup>c</sup> 1,110	191	48	2	1,351	845	54	83	650	244	281	525	2,158
<b>2016 Total</b> .....	1,143	266	57	2	1,469	909	54	121	774	224	281	505	2,363
<b>2017 Total</b> .....	1,156	253	62	3	1,474	1,019	54	180	867	229	280	510	2,630
<b>2018 Total</b> .....	1,152	243	57	3	1,456	993	54	216	929	221	275	496	2,689
<b>2019 Total</b> .....	1,162	231	99	4	1,497	978	51	243	1,009	201	248	448	2,729
<b>2020 Total</b> .....	1,004	239	107	4	1,355	969	53	302	1,150	185	242	428	2,902
<b>2021 Total</b> .....	1,110	218	158	10	1,496	854	53	391	1,289	197	229	426	3,014
<b>2022 January</b> .....	86	14	16	1	118	82	5	27	128	18	16	34	275
February .....	81	15	14	1	111	72	4	31	128	17	15	32	267
March .....	96	18	18	1	133	83	4	40	147	16	16	32	306
April .....	89	19	17	2	127	68	4	45	157	14	14	28	303
May .....	97	17	18	2	134	79	5	51	144	15	14	29	308
June .....	96	19	22	2	139	88	4	54	115	17	15	31	294
July .....	94	18	18	2	132	84	5	53	101	19	15	34	276
August .....	99	18	21	3	141	72	5	49	84	19	15	33	243
September .....	90	17	19	2	128	58	5	45	93	16	14	30	231
October .....	98	19	22	3	142	49	4	40	112	14	14	29	234
November .....	94	20	18	2	135	61	5	28	140	15	14	30	264
December .....	92	17	22	3	134	69	5	23	132	17	15	32	261
<b>Total</b> .....	<b>1,111</b>	<b>212</b>	<b>225</b>	<b>25</b>	<b>1,573</b>	<b>865</b>	<b>55</b>	<b>487</b>	<b>1,481</b>	<b>198</b>	<b>176</b>	<b>374</b>	<b>3,263</b>
<b>2023 January</b> .....	91	18	25	3	137	76	5	27	134	16	15	31	273
February .....	82	17	24	2	124	63	4	31	144	13	14	27	270
March .....	96	20	28	3	148	69	5	41	152	14	14	29	295
April .....	90	18	28	2	138	59	5	50	147	11	13	24	285
May .....	97	23	38	3	161	93	5	57	109	14	14	28	293
June .....	97	23	35	3	158	66	4	60	94	15	13	28	252
July .....	95	21	29	3	148	72	4	64	95	16	14	30	266
August .....	101	22	37	2	162	72	5	60	97	16	14	30	264
September .....	91	23	34	4	152	56	5	53	96	13	14	27	236
October .....	100	22	33	4	158	61	5	48	124	10	13	23	262
November .....	94	21	26	3	145	61	5	35	126	12	13	24	252
December .....	94	20	38	4	156	66	5	31	131	12	15	27	260
<b>Total</b> .....	<b>1,128</b>	<b>247</b>	<b>375</b>	<b>37</b>	<b>1,788</b>	<b>814</b>	<b>56</b>	<b>558</b>	<b>1,450</b>	<b>162</b>	<b>167</b>	<b>329</b>	<b>3,207</b>
<b>2024 January</b> .....	86	20	31	3	140	72	5	33	119	15	14	29	258
February .....	87	21	37	3	149	67	4	42	142	11	14	25	280
March .....	94	20	39	3	156	78	4	53	156	12	14	26	318
April .....	86	22	37	4	150	65	4	64	163	11	12	23	320
<b>4-Month Total</b> .....	<b>354</b>	<b>84</b>	<b>144</b>	<b>13</b>	<b>595</b>	<b>282</b>	<b>18</b>	<b>192</b>	<b>580</b>	<b>49</b>	<b>54</b>	<b>103</b>	<b>1,175</b>
<b>2023 4-Month Total</b> .....	<b>360</b>	<b>73</b>	<b>105</b>	<b>11</b>	<b>548</b>	<b>267</b>	<b>19</b>	<b>150</b>	<b>576</b>	<b>55</b>	<b>57</b>	<b>111</b>	<b>1,123</b>
<b>2022 4-Month Total</b> .....	<b>352</b>	<b>66</b>	<b>65</b>	<b>6</b>	<b>489</b>	<b>306</b>	<b>18</b>	<b>142</b>	<b>560</b>	<b>65</b>	<b>61</b>	<b>126</b>	<b>1,152</b>

<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 heat content of electricity in Table A6).

<sup>h</sup> Geothermal electricity net generation (converted to Btu by multiplying by the heat content of electricity 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 heat content of electricity in Table A6). See Table 10.5.

<sup>j</sup> Wind electricity net generation (converted to Btu by multiplying by the heat content of electricity 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.