

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

	Transportation Sector					Electric Power Sector ^a							
	Biomass					Hydro-electric Power ^g	Geo-thermal ^h	Solar ⁱ	Wind ^j	Biomass			Total
	Fuel Ethanol ^{b,c}	Bio-diesel ^d	Renewable Diesel Fuel ^e	Other Biofuels ^f	Total					Wood ^k	Waste ^l	Total	
1950 Total	NA	NA	NA	NA	NA	327	NA	NA	NA	5	NA	5	333
1955 Total	NA	NA	NA	NA	NA	385	NA	NA	NA	3	NA	3	389
1960 Total	NA	NA	NA	NA	NA	498	(s)	NA	NA	2	NA	2	499
1965 Total	NA	NA	NA	NA	NA	661	1	NA	NA	3	NA	3	665
1970 Total	NA	NA	NA	NA	NA	845	2	NA	NA	1	2	4	851
1975 Total	NA	NA	NA	NA	NA	1,024	11	NA	NA	(s)	2	2	1,037
1980 Total	NA	NA	NA	NA	NA	942	17	NA	NA	3	2	4	964
1985 Total	50	NA	NA	NA	50	959	32	(s)	(s)	8	7	14	1,006
1990 Total	60	NA	NA	NA	60	989	53	1	10	129	188	317	1,369
1995 Total	112	NA	NA	NA	112	1,042	46	2	11	125	296	422	1,522
2000 Total	135	NA	NA	NA	135	926	48	2	19	134	318	453	1,447
2005 Total	327	12	NA	NA	339	911	50	2	61	185	221	406	1,430
2010 Total	1,041	33	NA	NA	1,075	882	52	4	323	196	264	459	1,720
2011 Total	1,045	113	8	NA	1,166	1,083	52	6	410	182	255	437	1,988
2012 Total	1,045	115	10	NA	1,169	934	53	14	480	190	262	453	1,935
2013 Total	1,072	182	39	NA	1,292	904	54	30	572	207	262	470	2,030
2014 Total	1,093	181	38	2	1,314	880	54	59	619	251	279	530	2,143
2015 Total	^c 1,110	191	48	2	1,351	845	54	83	650	244	281	525	2,158
2016 Total	1,143	266	57	2	1,469	909	54	121	774	224	281	505	2,363
2017 Total	1,156	253	62	3	1,474	1,019	54	180	867	229	280	510	2,630
2018 Total	1,152	243	57	3	1,456	993	54	216	929	221	275	496	2,689
2019 Total	1,162	231	99	4	1,497	978	51	243	1,009	201	248	448	2,729
2020 Total	1,004	239	107	4	1,355	969	53	302	^R 1,152	185	242	428	^R 2,904
2021 Total	1,110	218	158	10	1,496	854	53	391	1,289	197	229	426	3,014
2022 January	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
Total	1,111	212	225	25	1,573	865	55	487	1,481	198	176	374	3,263
2023 January	91	17	24	3	135	77	5	26	131	17	15	32	271
February	81	17	24	2	124	68	4	32	141	15	14	28	274
March	97	20	28	3	148	72	5	41	149	16	14	30	297
April	90	17	28	3	138	67	5	51	146	12	13	25	294
May	97	23	38	3	161	94	5	59	110	14	14	28	295
June	97	23	35	3	158	73	4	61	94	15	14	29	261
July	95	21	29	3	149	75	4	64	96	16	14	30	269
August	101	22	37	2	161	72	4	60	97	16	14	30	264
September	91	23	34	3	151	57	4	53	97	13	13	26	238
October	100	22	33	4	159	53	5	48	123	12	14	26	255
November	94	21	27	3	145	58	5	35	124	13	14	27	249
December	94	20	39	4	157	65	5	31	130	15	15	30	260
Total	1,127	246	376	38	1,787	832	56	562	1,436	174	168	342	3,228
2024 January	86	20	31	3	140	74	5	33	119	15	14	30	261
February	87	21	37	3	149	68	4	42	141	12	13	25	281
March	94	20	39	3	156	79	4	54	155	12	13	26	318
April	86	22	37	4	150	66	5	65	161	11	12	23	320
May	103	21	38	2	165	77	4	75	132	13	13	27	314
June	92	22	43	3	160	72	4	82	130	13	13	26	314
July	99	20	49	3	172	72	5	82	95	14	13	27	280
August	99	19	44	3	165	73	4	81	98	14	14	28	284
September	93	19	42	4	157	57	4	68	99	13	13	25	253
October	102	20	42	4	168	54	4	66	136	11	13	24	284
10-Month Total ...	943	206	401	33	1,582	691	44	648	1,266	129	131	260	2,909
2023 10-Month Total ...	939	205	310	31	1,485	710	46	495	1,182	146	139	285	2,718
2022 10-Month Total ...	925	175	185	20	1,304	735	45	436	1,208	165	148	313	2,737

^a 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.

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

^c 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.

^d "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.

^e "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.

^f 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.

^g Conventional hydroelectricity net generation (converted to Btu by multiplying

by the heat content of electricity in Table A6).

^h Geothermal electricity net generation (converted to Btu by multiplying by the heat content of electricity in Table A6).

ⁱ 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.

^j Wind electricity net generation (converted to Btu by multiplying by the heat content of electricity in Table A6).

^k Wood and wood-derived fuels.

^l 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).

R=Revised. 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.