

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
2006 Total	442	33	NA	NA	475	977	50	2	91	182	231	412	1,531
2007 Total	557	45	NA	NA	602	839	50	2	118	186	237	423	1,432
2008 Total	786	39	NA	NA	825	864	51	3	189	177	258	435	1,541
2009 Total	894	41	NA	NA	935	926	51	3	252	160	261	441	1,674
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	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	1,150	185	242	428	2,902
2021 January	78	13	10	(s)	102	83	4	19	102	18	20	38	247
February	74	17	10	1	101	68	4	21	91	17	18	35	220
March	93	19	12	1	125	72	4	32	134	16	20	37	278
April	88	19	13	1	120	66	4	37	123	13	19	32	263
May	99	20	14	1	134	79	4	42	115	15	20	34	275
June	97	17	13	1	128	80	4	41	91	17	19	36	252
July	100	19	11	1	131	75	4	41	74	19	19	38	233
August	97	19	15	1	132	69	4	41	92	19	19	38	244
September	92	18	11	1	120	58	4	38	99	16	19	35	234
October	101	19	17	1	139	58	4	31	110	14	18	33	236
November	96	18	16	1	132	66	5	26	122	15	18	34	252
December	95	19	16	1	132	80	5	21	136	17	20	37	278
Total	1,110	218	158	10	1,496	854	53	391	1,289	197	229	426	3,014
2022 January	87	14	16	1	118	82	5	27	128	18	16	34	275
February	81	15	14	1	112	72	4	31	128	17	15	32	267
March	96	18	18	1	133	83	4	40	147	16	16	32	306
April	90	19	17	2	128	68	4	45	157	14	14	28	303
May	97	17	18	2	135	79	5	51	144	15	14	29	308
June	97	19	22	2	140	88	4	54	115	17	15	31	294
July	94	18	18	2	132	84	5	53	101	19	15	34	276
August	100	18	21	3	141	72	5	49	84	19	15	33	243
September	90	17	19	2	129	58	5	45	93	16	14	30	231
October	98	19	22	3	142	49	4	40	112	14	14	29	234
November	95	20	18	2	135	61	5	28	140	15	14	30	264
December	93	17	22	3	135	69	5	23	132	17	15	32	261
Total	1,117	212	225	25	1,579	865	55	487	1,481	198	176	374	3,263
2023 January	92	18	25	3	138	76	5	27	134	16	15	31	273
February	83	17	24	2	125	63	4	31	144	R 13	14	27	270
March	97	20	28	3	149	69	5	41	152	14	14	29	295
April	91	18	28	2	139	59	5	50	147	11	13	24	285
May	98	23	38	3	162	93	5	57	109	14	14	28	293
June	98	23	35	3	159	66	4	60	94	15	13	28	252
July	95	21	29	3	149	72	4	64	95	16	14	30	266
August	101	22	37	2	162	72	5	60	97	16	14	R 30	R 264
September	92	23	34	4	153	56	5	53	96	13	14	27	236
October	100	22	33	4	158	61	5	48	124	R 10	13	23	262
November	94	21	26	3	145	61	5	35	126	R 12	13	24	R 252
December	94	20	38	4	157	66	5	31	131	12	15	27	260
Total	1,134	247	375	37	1,794	814	56	558	1,450	162	167	329	3,207

^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.