

Table 10.2c Renewable Energy Consumption: Electric Power Sector, Selected Years, 1949-2011

(Trillion Btu)

Year	Hydroelectric Power ¹	Geothermal ²	Solar/PV ³	Wind ⁴	Biomass			Total
					Wood ⁵	Waste ⁶	Total	
1949	1,349	NA	NA	NA	6	NA	6	1,355
1950	1,346	NA	NA	NA	5	NA	5	1,351
1955	1,322	NA	NA	NA	3	NA	3	1,325
1960	1,569	(s)	NA	NA	2	NA	2	1,571
1965	2,026	2	NA	NA	3	NA	3	2,031
1970	2,600	6	NA	NA	1	2	4	2,609
1975	3,122	34	NA	NA	(s)	2	2	3,158
1976	2,943	38	NA	NA	1	2	3	2,983
1977	2,301	37	NA	NA	3	2	5	2,343
1978	2,905	31	NA	NA	2	1	3	2,940
1979	2,897	40	NA	NA	3	2	5	2,942
1980	2,867	53	NA	NA	3	2	5	2,925
1981	2,725	59	NA	NA	3	1	4	2,788
1982	3,233	51	NA	NA	2	1	3	3,286
1983	3,494	64	NA	(s)	2	2	4	3,562
1984	3,353	81	(s)	(s)	5	4	9	3,443
1985	2,937	97	(s)	(s)	8	7	14	3,049
1986	3,038	108	(s)	(s)	5	7	12	3,158
1987	2,602	112	(s)	(s)	8	7	15	2,729
1988	2,302	106	(s)	(s)	10	8	17	2,425
1989 ⁷	2,808	152	3	22	100	132	232	3,217
1990	3,014	161	4	29	129	188	317	3,524
1991	2,985	167	5	31	126	229	354	3,542
1992	2,586	167	4	30	140	262	402	3,189
1993	2,861	173	5	31	150	265	415	3,484
1994	2,620	160	5	36	152	282	434	3,255
1995	3,149	138	5	33	125	296	422	3,747
1996	3,528	148	5	33	138	300	438	4,153
1997	3,581	150	5	34	137	309	446	4,216
1998	3,241	151	5	31	137	308	444	3,872
1999	3,218	152	5	46	138	315	453	3,874
2000	2,768	144	5	57	134	318	453	3,427
2001	2,209	142	6	70	126	211	337	2,763
2002	2,650	147	6	105	150	230	380	3,288
2003	2,781	148	5	115	167	230	397	3,445
2004	2,656	148	6	142	165	223	388	3,340
2005	2,670	147	6	178	185	221	406	3,406
2006	2,839	145	5	264	182	231	412	3,665
2007	2,430	145	6	341	186	237	423	3,345
2008	2,494	146	9	546	177	258	435	3,630
2009	2,650	146	9	721	180	261	441	3,967
2010	^R 2,521	^R 148	^R 12	^R 923	^R 196	^R 264	^R 459	^R 4,064
2011 ^P	3,153	163	18	1,168	175	269	444	4,945

¹ Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

² Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

³ Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

⁴ Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

⁵ Wood and wood-derived fuels.

⁶ 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).

⁷ Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

R=Revised. P=Preliminary. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • The electric power sector comprises 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. • See Tables 8.2a–8.2d and 8.3a–8.3c for electricity net generation and useful thermal output from renewable energy sources; Tables 8.4a–8.4c, 8.5a–8.5d, 8.6a–8.6c, and 8.7a–8.7c for renewable energy consumption for electricity generation and useful thermal output; and Tables 8.11a–8.11d for renewable energy electric net summer capacity. • See Note 3, "Electricity Imports and Exports," at end of Section 8. • Totals may not equal sum of components due to independent rounding.

Web Pages: • See <http://www.eia.gov/totalenergy/data/monthly/#renewable> for updated monthly and annual data. • See <http://www.eia.gov/totalenergy/data/annual/#renewable> for all annual data beginning in 1949. • See <http://www.eia.gov/renewable/> for related information.

Sources: Tables 8.2b, 8.5b, 8.7b, and A6.