

**Table 10.2a Estimated Renewable Energy Consumption: End-Use Sectors, Selected Years, 1949-2003**  
(Trillion Btu)

Year	Residential				Commercial <sup>1</sup>					Industrial <sup>2</sup>					Transportation	End-Use Total
	Wood <sup>3</sup>	Geo-thermal <sup>4</sup>	Solar <sup>5</sup>	Total	Hydro-power <sup>6</sup>	Wood <sup>3</sup>	Waste <sup>7</sup>	Geo-thermal <sup>4</sup>	Total	Hydro-power <sup>6</sup>	Wood <sup>3</sup>	Waste <sup>7</sup>	Geo-thermal <sup>4</sup>	Total	Alcohol Fuels <sup>8</sup>	
1949	1,055	NA	NA	1,055	NA	20	NA	NA	20	76	468	NA	NA	544	NA	1,619
1950	1,006	NA	NA	1,006	NA	19	NA	NA	19	69	532	NA	NA	602	NA	1,626
1955	775	NA	NA	775	NA	15	NA	NA	15	38	631	NA	NA	669	NA	1,459
1960	627	NA	NA	627	NA	12	NA	NA	12	39	680	NA	NA	719	NA	1,357
1965	468	NA	NA	468	NA	9	NA	NA	9	33	855	NA	NA	888	NA	1,365
1970	401	NA	NA	401	NA	8	NA	NA	8	34	1,019	NA	NA	1,053	NA	1,461
1971	382	NA	NA	382	NA	7	NA	NA	7	34	1,040	NA	NA	1,074	NA	1,463
1972	380	NA	NA	380	NA	7	NA	NA	7	34	1,113	NA	NA	1,147	NA	1,534
1973	354	NA	NA	354	NA	7	NA	NA	7	35	1,165	NA	NA	1,200	NA	1,560
1974	371	NA	NA	371	NA	7	NA	NA	7	33	1,159	NA	NA	1,192	NA	1,570
1975	425	NA	NA	425	NA	8	NA	NA	8	32	1,063	NA	NA	1,096	NA	1,529
1976	482	NA	NA	482	NA	9	NA	NA	9	33	1,220	NA	NA	1,253	NA	1,744
1977	542	NA	NA	542	NA	10	NA	NA	10	33	1,281	NA	NA	1,314	NA	1,866
1978	622	NA	NA	622	NA	12	NA	NA	12	32	1,400	NA	NA	1,432	NA	2,066
1979	728	NA	NA	728	NA	14	NA	NA	14	34	1,405	NA	NA	1,439	NA	2,181
1980	859	NA	NA	859	NA	21	NA	NA	21	33	1,600	NA	NA	1,633	NA	2,513
1981	869	NA	NA	869	NA	21	NA	NA	21	33	1,602	87	NA	1,722	7	2,619
1982	937	NA	NA	937	NA	22	NA	NA	22	33	1,516	118	NA	1,667	19	2,645
1983	925	NA	NA	925	NA	22	NA	NA	22	33	1,690	155	NA	1,879	35	2,861
1984	923	NA	NA	923	NA	22	NA	NA	22	33	1,679	204	NA	1,916	43	2,904
1985	899	NA	NA	899	NA	24	NA	NA	24	33	1,645	230	NA	1,908	52	2,883
1986	876	NA	NA	876	NA	27	NA	NA	27	33	1,610	256	NA	1,899	60	2,862
1987	852	NA	NA	852	NA	29	NA	NA	29	33	1,576	282	NA	1,891	69	2,841
1988	885	NA	NA	885	NA	32	NA	NA	32	33	1,625	308	NA	1,965	70	2,952
1989	918	5	53	976	1	36	22	3	61	28	1,584	200	2	1,814	71	2,922
1990	581	6	56	642	1	39	28	3	71	31	1,442	192	2	1,667	63	2,444
1991	613	6	58	677	1	41	26	3	72	30	1,410	185	2	1,626	73	2,448
1992	645	6	60	711	1	44	32	3	81	31	1,461	179	2	1,672	83	2,548
1993	548	7	62	616	1	46	33	3	84	30	R1,483	181	2	R1,696	97	R2,493
1994	537	6	64	607	1	46	35	4	86	62	1,580	199	3	1,844	109	2,645
1995	596	7	65	667	1	46	40	5	92	55	1,652	195	3	1,905	117	2,781
1996	595	7	65	667	1	50	53	5	110	61	1,683	224	3	1,971	84	2,832
1997	433	8	65	506	1	49	58	6	113	58	1,731	184	3	1,976	106	2,701
1998	387	8	65	459	1	48	54	7	111	55	1,603	180	3	1,841	117	2,528
1999	414	9	64	486	1	52	54	7	114	49	1,620	171	4	1,843	122	2,565
2000	433	9	61	503	1	53	47	8	109	42	1,636	145	4	1,828	139	2,579
2001	R370	9	60	R439	1	R40	39	8	89	32	1,443	150	5	1,630	147	R2,305
2002	R313	10	R59	R382	RP(s)	R42	R42	9	RP93	RP39	R1,531	R174	5	RP1,748	174	RP2,397
2003	P359	P18	P58	P435	P1	P42	P48	P15	P106	P57	P1,524	P164	P5	P1,750	P239	P2,531

<sup>1</sup> Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

<sup>2</sup> Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

<sup>3</sup> Wood, black liquor, and other wood waste.

<sup>4</sup> Geothermal heat pump and direct use energy.

<sup>5</sup> Solar thermal direct use energy and photovoltaic electricity generation. Includes a small amount of commercial sector use.

<sup>6</sup> Conventional hydroelectric power.

<sup>7</sup> Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

<sup>8</sup> Ethanol blended into motor gasoline.

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

Notes: • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 8.

• Totals may not equal sum of components due to independent rounding.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/renew.html>.

• For related information, see <http://www.eia.doe.gov/fuelrenewable.html>.

Sources: See end of section.