

**Table E1b. Noncombustible Renewable Primary Energy Consumption: Solar and Total**  
(Trillion Btu)

	Solar <sup>a</sup>						Total <sup>b</sup>		
	Distributed <sup>c</sup>			Utility-Scale <sup>d</sup>		Total Primary Energy <sup>i</sup>	Captured Energy <sup>j</sup>	Adjustment for Fossil Fuel Equivalence <sup>g</sup>	Total Primary Energy <sup>i</sup>
	Direct Consumption <sup>e</sup>	Transformed Into Electricity <sup>f</sup>	Adjustment for Fossil Fuel Equivalence <sup>g</sup>	Transformed Into Electricity <sup>f,h</sup>	Adjustment for Fossil Fuel Equivalence <sup>g</sup>				
1950 .....	NA	NA	NA	NA	NA	NA	344	1,071	1,415
1955 .....	NA	NA	NA	NA	NA	NA	397	963	1,360
1960 .....	NA	NA	NA	NA	NA	NA	510	1,098	1,608
1965 .....	NA	NA	NA	NA	NA	NA	673	1,388	2,061
1970 .....	NA	NA	NA	NA	NA	NA	858	1,781	2,639
1975 .....	NA	NA	NA	NA	NA	NA	1,045	2,143	3,188
1980 .....	NA	NA	NA	NA	NA	NA	970	1,983	2,953
1981 .....	NA	NA	NA	NA	NA	NA	920	1,898	2,817
1982 .....	NA	NA	NA	NA	NA	NA	1,082	2,234	3,316
1983 .....	NA	NA	NA	NA	NA	NA	1,165	2,426	3,591
1984 .....	NA	NA	NA	(s)	(s)	(s)	1,133	2,334	3,467
1985 .....	NA	NA	NA	(s)	(s)	(s)	1,002	2,066	3,068
1986 .....	NA	NA	NA	(s)	(s)	(s)	1,038	2,141	3,179
1987 .....	NA	NA	NA	(s)	(s)	(s)	900	1,847	2,747
1988 .....	NA	NA	NA	(s)	(s)	(s)	807	1,634	2,441
1989 .....	52	(s)	(s)	<sup>h</sup> 1	2	54	1,047	2,029	3,075
1990 .....	55	(s)	(s)	1	3	59	1,128	2,177	3,305
1991 .....	56	(s)	(s)	2	3	62	1,120	2,166	3,286
1992 .....	58	(s)	(s)	1	3	63	1,000	1,889	2,889
1993 .....	60	(s)	(s)	2	3	65	1,099	2,075	3,173
1994 .....	62	(s)	(s)	2	3	67	1,029	1,931	2,960
1995 .....	63	(s)	(s)	2	3	68	1,196	2,263	3,458
1996 .....	63	(s)	(s)	2	4	69	1,325	2,531	3,856
1997 .....	62	(s)	(s)	2	3	68	1,358	2,551	3,909
1998 .....	61	(s)	1	2	3	67	1,245	2,319	3,564
1999 .....	60	(s)	1	2	3	66	1,237	2,313	3,550
2000 .....	57	(s)	1	2	3	63	1,087	2,009	3,096
2001 .....	55	(s)	1	2	4	62	890	1,648	2,538
2002 .....	53	1	1	2	4	60	1,066	1,960	3,025
2003 .....	51	1	1	2	4	58	1,109	2,028	3,138
2004 .....	50	1	1	2	4	58	1,097	1,969	3,067
2005 .....	49	1	2	2	4	58	1,119	2,001	3,119
2006 .....	51	2	3	2	3	61	1,218	2,156	3,375
2007 .....	53	2	4	2	4	65	1,110	1,928	3,038
2008 .....	54	4	7	3	6	74	1,216	2,106	3,323
2009 .....	55	5	9	3	6	78	1,353	2,315	3,668
2010 .....	56	8	15	4	8	90	1,390	2,370	3,760
2011 .....	58	12	23	6	11	111	1,692	2,902	4,593
2012 .....	59	20	36	15	26	157	1,634	2,703	4,337
2013 .....	61	28	50	31	55	225	1,726	2,877	4,602
2014 .....	62	38	68	60	108	337	1,783	2,963	4,746
2015 .....	64	48	84	85	147	427	1,816	2,922	4,739

<sup>a</sup> Solar thermal direct use energy; and solar photovoltaic (PV) and solar thermal electricity net generation.

<sup>b</sup> Conventional hydroelectricity net generation; geothermal heat pump and direct use energy; geothermal electricity net generation; wind electricity net generation; solar thermal direct use energy; and solar photovoltaic (PV) and solar thermal electricity net generation.

<sup>c</sup> Distributed (small-scale) facilities (electric generators have a combined generator nameplate capacity of less than 1 megawatt).

<sup>d</sup> Utility-scale facilities (combined generator nameplate capacity of 1 megawatt or more).

<sup>e</sup> Solar thermal direct use energy.

<sup>f</sup> Electricity net generation in kilowatthours (kWh) multiplied by 3,412 Btu/kWh, the heat content of electricity (see Table A6).

<sup>g</sup> Equals the difference between the fossil-fuel equivalent value of electricity and the captured energy consumed as electricity. The fossil-fuel equivalent value of electricity equals electricity net generation in kilowatthours multiplied by the total fossil fuels heat rate factors (see Table A6). The captured energy consumed as electricity equals electricity net generation in kilowatthours multiplied by 3,412 Btu/kWh, the heat content of electricity (see Table A6).

<sup>h</sup> Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

<sup>i</sup> Direct consumption of energy; and energy used to generate electricity, calculated as electricity net generation in kilowatthours multiplied by the total fossil fuels heat rate factors (see Table A6).

<sup>j</sup> Direct consumption of energy plus captured energy consumed as electricity, which is calculated as electricity net generation in kilowatthours (kWh) multiplied by 3,412 Btu/kWh, the heat content of electricity (see Table A6).

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Beginning in 1989, data for distributed solar and total captured energy are estimates. For the current year, data for utility-scale solar are estimates.

• 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/#appendices>

(Excel and CSV files) for all available annual data beginning in 1949.

Sources: • **Solar:** Tables 10.5, 10.6, and A6. • **Total:** Tables 7.2a, 10.1, 10.2a, 10.2b, 10.5, 10.6, and A6.