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

	Solar ^a						Total ^b		
	Distributed ^c		Utility-Scale ^d						
	Direct Consumption ^e	Transformed Into Electricity ^f	Adjustment for Fossil Fuel Equivalence	Transformed Into Electricity ^{f,h}	Adjustment for Fossil Fuel Equivalence ⁹	Total Primary Energy ⁱ	Captured Energy ^j	Adjustment for Fossil Fuel Equivalence ⁹	Total Primary Energy ⁱ
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 NA	NA NA	NA	510	1,098	1,608
1965	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	673	1,388	2,061
		NA NA	NA NA	NA NA	NA NA	NA NA			
1970	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)	h 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
	62			2	3	67	1,029	1,931	2,960
1994		(s)	(s)		3				
1995	63	(s)	(s)	2		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	ìí	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	i	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
	54 55	4 5	9	3	6	74 78	1,216	2,106	3,323 3.668
2009	55 56	5 8	9 15	3 4	8	78 90		2,315	
2010				-			1,390		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	R 427	1,816	2,922	4,739

^a Solar thermal direct use energy; and solar photovoltaic (PV) and solar thermal

b 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

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

^d Utility-scale facilities (combined generator nameplate capacity of 1 megawatt

or more).

^e Solar thermal direct use energy.

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

^g Equals the difference between the fossil-fuel equivalent value of electricity and

be Equals in difference between the loss-in-dired equivalent value of 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).

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

plants.

i 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).

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

R=Revised. 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.