

Table 10.1 Renewable Energy Production and Consumption by Source
(Trillion Btu)

	Production ^a			Consumption								Total Renewable Energy
	Biomass		Total Renewable Energy ^d	Hydro-electric Power ^e	Geo-thermal ^f	Solar ^g	Wind ^h	Biomass				
	Bio-fuels ^b	Total ^c						Wood ⁱ	Waste ^j	Bio-fuels ^k	Total	
1950 Total	NA	1,562	2,978	1,415	NA	NA	NA	1,562	NA	NA	1,562	2,978
1955 Total	NA	1,424	2,784	1,360	NA	NA	NA	1,424	NA	NA	1,424	2,784
1960 Total	NA	1,320	2,928	1,608	(s)	NA	NA	1,320	NA	NA	1,320	2,928
1965 Total	NA	1,335	3,396	2,059	2	NA	NA	1,335	NA	NA	1,335	3,396
1970 Total	NA	1,431	4,070	2,634	6	NA	NA	1,429	2	NA	1,431	4,070
1975 Total	NA	1,499	4,687	3,155	34	NA	NA	1,497	2	NA	1,499	4,687
1980 Total	NA	2,475	5,428	2,900	53	NA	NA	2,474	2	NA	2,475	5,428
1985 Total	93	3,016	6,084	2,970	97	(s)	(s)	2,687	236	93	3,016	6,084
1990 Total	111	2,735	6,040	3,046	171	59	29	2,216	408	111	2,735	6,040
1995 Total	198	3,099	6,557	3,205	152	68	33	2,370	531	200	3,101	6,559
2000 Total	233	3,006	6,102	2,811	164	63	57	2,262	511	236	3,008	6,104
2001 Total	254	2,624	5,162	2,242	164	62	70	2,006	364	253	2,622	5,160
2002 Total	308	2,705	5,731	2,689	171	60	105	1,995	402	303	2,701	5,726
2003 Total	401	2,805	5,942	2,793	173	58	113	2,002	401	403	2,806	5,944
2004 Total	486	2,996	6,063	2,688	178	58	142	2,121	389	498	3,008	6,075
2005 Total	561	3,101	6,221	2,703	181	58	178	2,137	403	574	3,114	6,233
2006 Total	716	3,212	6,586	2,869	181	61	264	2,099	397	766	3,262	6,637
2007 Total	970	3,472	6,510	2,446	186	65	341	2,089	413	983	3,485	6,523
2008 Total	1,374	3,868	7,191	2,511	192	74	546	2,059	435	1,357	3,851	7,174
2009 Total	1,570	3,953	7,620	2,669	200	78	721	1,931	452	1,553	3,936	7,604
2010 Total	1,868	4,316	8,077	2,539	208	90	923	1,981	468	1,821	4,270	8,030
2011 Total	2,029	4,501	9,095	3,103	212	111	1,168	2,010	462	1,933	4,405	8,999
2012 Total	1,929	4,406	8,743	2,629	212	157	1,340	2,010	467	1,892	4,369	8,706
2013 Total	1,981	4,647	9,249	2,562	214	225	1,601	2,170	496	2,007	4,673	9,275
2014 January	170	404	815	206	18	17	170	190	45	163	397	808
February	153	367	700	165	16	18	133	173	41	150	364	697
March	173	406	850	231	18	26	169	189	45	167	401	845
April	170	392	858	242	18	29	177	179	44	167	390	856
May	178	403	855	252	18	33	148	182	43	176	401	853
June	177	406	853	245	18	35	150	186	42	173	402	849
July	183	420	820	232	18	34	116	192	45	180	417	817
August	179	416	754	188	18	35	97	193	43	182	418	756
September	173	396	709	153	18	33	110	182	41	172	394	708
October	179	407	758	163	18	31	138	186	42	180	408	759
November	177	403	803	177	18	25	179	185	42	173	399	799
December	191	428	820	212	18	21	140	194	44	183	420	812
Total	2,103	4,849	9,595	2,467	214	337	1,728	2,230	516	2,067	4,812	9,558
2015 January	178	401	806	225	18	21	141	179	43	163	386	792
February	162	363	751	208	17	25	139	162	39	158	358	747
March	180	393	815	226	18	35	143	170	43	176	389	811
April	172	380	812	209	17	40	167	165	42	170	378	810
May	183	396	805	188	18	43	160	170	43	185	398	807
June	184	395	771	190	17	43	125	168	42	186	397	773
July	187	410	796	196	18	45	127	176	46	189	411	797
August	185	406	770	178	18	45	122	177	44	189	411	774
September	175	385	721	150	17	39	130	168	42	182	392	728
October	183	393	753	155	18	34	153	165	45	184	394	754
November	182	394	806	180	18	30	183	167	45	179	391	802
December	190	412	860	216	18	27	187	175	47	185	406	855
Total	2,161	4,727	9,466	2,321	213	427	1,777	2,043	522	2,145	4,711	9,450
2016 January	184	401	856	236	19	27	173	171	45	172	388	843
February	175	376	845	225	18	37	188	159	41	174	375	844
March	189	397	916	252	19	45	203	163	44	188	395	914
April	174	372	868	237	18	49	192	153	45	173	372	868
May	188	391	880	236	20	57	175	160	44	191	394	883
June	188	394	836	213	18	58	152	162	44	191	396	838
July	195	407	852	198	19	63	164	167	45	201	413	858
August	197	410	797	180	19	61	126	167	45	204	417	804
September	186	385	766	152	19	56	153	158	41	192	391	772
October	192	393	813	161	20	50	190	157	43	193	393	813
10-Month Total ...	1,869	3,926	8,427	2,091	190	505	1,716	1,620	437	1,878	3,935	8,436
2015 10-Month Total ...	1,790	3,921	7,800	1,925	177	370	1,407	1,701	430	1,782	3,913	7,792
2014 10-Month Total ...	1,735	4,018	7,972	2,077	178	291	1,408	1,852	431	1,711	3,993	7,947

^a Production equals consumption for all renewable energy sources except biofuels.

^b Total biomass inputs to the production of fuel ethanol and biodiesel.

^c Wood and wood-derived fuels, biomass waste, and total biomass inputs to the production of fuel ethanol and biodiesel.

^d Hydroelectric power, geothermal, solar, wind, and biomass.

^e Conventional hydroelectricity net generation (converted to Btu by multiplying by the total fossil fuels heat rate factors in Table A6).

^f Geothermal electricity net generation (converted to Btu by multiplying by the total fossil fuels heat rate factors in Table A6), and geothermal heat pump and direct use energy.

^g Solar photovoltaic (PV) and solar thermal electricity net generation (converted to Btu by multiplying by the total fossil fuels heat rate factors in Table A6), and solar thermal direct use energy.

^h Wind electricity net generation (converted to Btu by multiplying by the total fossil fuels heat rate factors in Table A6).

ⁱ Wood and wood-derived fuels.

^j 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).

^k Fuel ethanol (minus denaturant) and biodiesel consumption, plus losses and co-products from the production of fuel ethanol and biodiesel.

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

Notes: • Most data for the residential, commercial, industrial, and transportation sectors are estimates. See notes and sources for Tables 10.2a and 10.2b. • See Note, "Renewable Energy Production and Consumption," at end of section.

• 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: Tables 10.2a–10.5.