

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

	Production ^a			Consumption									
	Biomass		Total Renewable Energy ^d	Hydroelectric Power ^e	Geothermal ^f	Solar ^g	Wind ^h	Biomass				Total Renewable Energy	
	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	NA	1,562	2,978
1955 Total	NA	1,424	2,784	1,360	NA	NA	NA	1,424	NA	NA	NA	1,424	2,784
1960 Total	NA	1,320	2,928	1,608	(s)	NA	NA	1,320	NA	NA	NA	1,320	2,928
1965 Total	NA	1,335	3,396	2,059	2	NA	NA	1,335	NA	NA	NA	1,335	3,396
1970 Total	NA	1,431	4,070	2,634	6	NA	NA	1,429	2	NA	NA	1,431	4,070
1975 Total	NA	1,499	4,687	3,155	34	NA	NA	1,497	2	NA	NA	1,499	4,687
1980 Total	NA	2,475	5,428	2,900	53	NA	NA	2,474	2	NA	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	R 2,007	R 4,673	R 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	R 401	R 806	R 225	R 18	R 21	R 141	R 179	R 43	163	R 386	R 792	
February	162	R 363	R 751	R 208	R 17	R 25	R 139	162	39	158	R 358	R 747	
March	180	R 393	R 815	R 226	R 18	R 35	R 143	R 170	43	176	R 389	R 811	
April	172	R 380	R 812	R 209	R 17	R 40	R 167	R 165	R 42	170	R 378	R 810	
May	183	R 396	R 805	R 188	R 18	R 43	R 160	R 170	R 43	185	R 398	R 807	
June	184	R 395	R 771	R 190	R 17	R 43	R 125	R 168	42	186	R 397	R 773	
July	187	R 410	R 796	R 196	R 18	R 45	R 127	R 177	R 46	189	R 411	R 797	
August	185	R 406	R 770	R 178	R 18	R 45	R 122	R 177	R 44	189	R 411	R 774	
September	175	R 385	R 721	R 150	17	R 39	R 130	R 168	R 42	182	R 392	R 728	
October	183	R 393	R 753	R 155	18	R 34	R 153	R 165	R 45	184	R 394	R 754	
November	182	R 394	R 806	R 180	18	R 30	R 183	R 167	R 45	179	R 391	R 802	
December	190	R 412	R 860	R 216	R 18	R 27	R 187	175	R 47	185	R 406	R 855	
Total	2,161	R 4,727	R 9,466	R 2,321	R 213	R 427	R 1,777	R 2,043	R 522	2,145	R 4,711	R 9,450	
2016 January	184	R 401	R 856	R 236	19	R 27	R 173	171	R 45	172	R 388	R 843	
February	175	R 376	R 845	R 225	18	R 37	R 188	159	41	174	R 375	R 844	
March	189	R 397	R 916	R 252	19	R 45	R 203	163	44	188	R 395	R 914	
April	174	R 372	R 868	R 237	18	R 49	R 192	R 153	R 45	173	R 372	R 868	
May	188	R 391	R 880	R 236	20	R 57	R 175	R 160	R 44	191	R 394	R 883	
June	188	R 394	R 836	R 213	18	R 58	R 152	R 162	R 44	191	R 396	R 838	
July	195	R 407	R 852	R 198	19	R 63	R 164	R 167	R 45	201	R 413	R 858	
August	197	R 410	R 797	R 180	19	R 61	R 126	167	R 45	204	R 417	R 804	
September	186	385	766	152	19	56	153	158	41	192	391	772	
9-Month Total	1,677	3,533	7,614	1,930	170	455	1,526	1,462	394	1,685	3,542	7,623	
2015 9-Month Total	1,607	3,528	7,047	1,770	159	336	1,254	1,536	385	1,598	3,519	7,038	
2014 9-Month Total	1,556	3,610	7,214	1,914	160	260	1,270	1,666	388	1,531	3,585	7,188	

^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.
R=Revised, 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.