

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

	Production ^a			Consumption								
	Biomass		Total Renewable Energy ^d	Hydro-electric Power ^e	Geo-thermal ^f	Solar/ PV ^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	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	6,041	3,046	171	59	29	2,216	408	111	2,735	6,041
1995 Total	198	3,099	6,558	3,205	152	69	33	2,370	531	200	3,101	6,560
2000 Total	233	3,006	6,104	2,811	164	66	57	2,262	511	236	3,008	6,106
2001 Total	254	2,624	5,164	2,242	164	64	70	2,006	364	253	2,622	5,163
2002 Total	308	2,705	5,734	2,689	171	63	105	1,995	402	303	2,701	5,729
2003 Total	401	2,805	5,946	2,793	173	62	113	2,002	401	403	2,806	5,948
2004 Total	486	2,996	6,067	2,688	178	63	142	2,121	389	498	3,008	6,079
2005 Total	561	3,101	6,226	2,703	181	63	178	2,137	403	574	3,114	6,239
2006 Total	716	3,212	6,594	2,869	181	68	264	2,099	397	766	3,262	6,645
2007 Total	970	3,472	6,520	2,446	186	76	341	2,089	413	983	3,485	6,533
2008 Total	1,374	3,868	7,206	2,511	192	89	546	2,059	435	1,357	3,851	7,189
2009 Total	1,570	3,953	7,641	2,669	200	98	721	1,931	452	1,553	3,936	7,624
2010 Total	1,868	4,316	8,112	2,539	208	126	923	1,981	468	1,821	4,270	8,066
2011 Total	2,029	4,501	9,155	3,103	212	171	1,168	2,010	462	1,933	4,405	9,059
2012 Total	1,929	4,406	8,813	2,629	212	227	1,340	2,010	467	1,892	4,369	8,777
2013 January	150	377	795	237	19	22	141	185	41	149	376	794
February	137	341	708	195	17	21	134	167	37	139	343	710
March	159	383	772	196	19	25	150	182	42	161	385	774
April	160	372	820	239	17	24	167	171	41	162	374	822
May	169	390	860	271	18	26	155	179	41	170	390	860
June	167	387	823	261	17	26	131	179	40	173	392	828
July	170	403	813	260	18	27	106	190	42	171	403	814
August	167	397	741	206	18	28	92	188	42	170	400	744
September	162	379	697	162	18	27	111	177	40	170	387	704
October	177	400	741	164	18	28	130	181	42	183	406	746
November	176	399	762	169	17	26	151	181	42	175	398	761
December	185	420	800	202	18	27	133	189	45	185	420	799
Total	1,981	4,647	9,330	2,562	214	305	1,601	2,170	496	2,007	4,673	9,356
2014 January	170	R 404	R 829	206	R 18	29	R 171	R 190	R 45	163	R 397	R 822
February	153	R 367	R 710	166	R 16	R 27	R 134	R 173	R 41	150	R 364	R 707
March	173	R 406	R 859	231	R 18	R 34	169	R 189	R 45	167	R 401	R 854
April	170	R 392	R 866	R 243	R 18	R 35	R 178	R 179	R 44	167	R 390	R 863
May	178	R 403	R 861	R 253	R 18	R 38	R 149	R 182	R 43	176	R 401	R 859
June	177	R 406	R 859	246	R 18	R 39	R 151	R 186	R 42	173	R 402	R 855
July	183	R 420	R 825	R 232	R 18	R 38	R 116	R 192	R 45	180	R 417	R 822
August	179	R 416	R 759	189	R 18	R 39	97	R 193	R 43	182	R 418	R 762
September	173	R 396	R 715	R 153	18	R 38	110	R 182	R 41	172	R 394	R 714
October	179	407	R 766	R 164	R 18	R 38	R 138	R 186	R 42	180	408	R 767
November	177	R 403	R 813	R 178	R 18	34	R 180	R 185	R 42	173	R 399	R 809
December	191	R 428	831	R 213	19	31	140	R 194	R 44	183	R 420	R 823
Total	2,103	R 4,849	R 9,692	R 2,475	R 215	R 421	R 1,733	R 2,230	R 516	2,067	R 4,812	R 9,656
2015 January	178	R 405	R 841	R 235	R 20	35	146	R 182	R 45	164	R 392	R 827
February	162	R 364	R 778	R 217	18	37	143	R 164	R 39	156	R 358	R 773
March	180	R 393	R 841	R 237	19	45	R 146	R 171	R 43	174	R 388	R 836
April	172	R 380	R 830	R 215	18	48	170	R 166	R 41	169	R 377	R 828
May	183	R 397	R 822	R 193	19	49	R 164	R 172	R 42	185	R 399	R 823
June	184	R 396	R 783	191	18	49	128	R 170	R 42	186	R 398	R 785
July	187	R 411	R 812	201	19	R 50	130	R 179	R 45	188	R 412	R 813
August	184	R 404	R 784	R 185	19	51	124	R 177	R 43	188	R 408	R 788
September	176	384	734	155	18	45	132	168	41	182	390	740
9-Month Total	1,605	3,534	7,225	1,829	169	409	1,283	1,548	381	1,593	3,522	7,212
2014 9-Month Total	1,556	3,610	7,283	1,920	160	318	1,274	1,666	388	1,531	3,585	7,257
2013 9-Month Total	1,442	3,428	7,028	2,028	160	225	1,187	1,618	367	1,464	3,450	7,050

^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 thermal/photovoltaic, 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 thermal and photovoltaic (PV) 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–10.4.