

Table 6.6 U.S. Renewable Energy Consumption by Energy Use Sector and Energy Source, 2002-2008
Trillion Btu

Sector/Source	2002	2003	2004	2005	2006	2007	2008 [^]
Total	5,893	6,151	6,260	6,423	6,909	6,814	7,301
Biomass	2,706	2,817	3,023	3,133	3,361	3,597	3,884
Biofuels	309	414	513	594	795	1,025	1,413
Biodiesel ¹	1	2	3	12	33	46	41
Ethanol ³	175	238	299	342	462	580	809
Losses and Coproducts	133	174	210	240	300	399	563
Biodiesel Feedstock ²	*	*	*	*	*	1	1
Ethanol Feedstock ⁴	133	174	210	240	299	398	562
Waste	402	401	389	403	414	430	431
Landfill Gas	142	141	144	148	157	173	187
MSW Biogenic ⁵	182	165	164	168	171	165	168
Other Biomass ⁶	78	96	81	88	86	92	76
Wood and Derived Fuels	1,995	2,002	2,121	2,136	2,152	2,142	2,041
Geothermal	328	331	341	343	343	349	358
Conventional Hydro.	2,689	2,825	2,690	2,703	2,869	2,446	2,453
Solar ⁷	64	64	65	66	72	81	91
Wind	105	115	142	178	264	341	514
Residential	449	471	483	507	475	527	599
Biomass	380	400	410	430	390	430	490
Wood and Derived Fuels ⁸	380	400	410	430	390	430	490
Geothermal	10	13	14	16	18	22	26
Solar ⁷	59	58	59	61	67	75	83
Commercial	104	113	118	119	117	118	123
Biomass	95	101	105	105	102	102	107
Biofuels	*	1	1	1	1	2	3
Ethanol	*	1	1	1	1	2	3
Waste	26	29	34	34	36	31	32
Landfill Gas	2	2	2	3	4	3	3
MSW Biogenic ⁵	20	22	25	25	26	21	22
Other Biomass ⁶	4	5	7	7	7	7	7
Wood and Derived Fuels ⁹	69	71	70	70	65	69	72
Geothermal	9	11	12	14	14	14	15
Conventional Hydro.	*	1	1	1	1	1	1

Sector/Source	2002	2003	2004	2005	2006	2007	2008 [^]
Industrial	1,723	1,731	1,860	1,883	2,005	2,048	2,056
Biomass	1,679	1,684	1,824	1,847	1,972	2,028	2,032
Biofuels	136	178	216	247	309	409	577
Ethanol ³	3	4	6	7	10	10	14
Losses and Coproducts	133	174	210	240	300	399	563
Biodiesel Feedstock ²	*	*	*	*	*	1	1
Ethanol Feedstock ⁴	133	174	210	240	299	398	562
Waste	146	142	132	148	147	162	157
Landfill Gas	79	76	76	81	81	93	105
MSW Biogenic ⁵	5	5	6	7	6	6	4
Other Biomass ⁶	63	62	50	61	61	63	47
Wood and Derived Fuels ⁹	1,396	1,363	1,476	1,452	1,515	1,457	1,298
Geothermal	5	3	4	4	4	5	5
Conventional Hydro.	39	43	33	32	29	16	19
Transportation	172	235	295	346	484	614	833
Biomass	172	235	295	346	484	614	833
Biofuels	172	235	295	346	484	614	833
Biodiesel ¹	1	2	3	12	33	46	41
Ethanol ³	171	233	292	334	451	568	792
Electric Power¹⁰	3,445	3,601	3,503	3,568	3,827	3,508	3,690
Biomass	380	397	388	406	412	423	423
Waste	230	230	223	221	231	237	242
Landfill Gas	62	63	66	65	73	77	79
MSW Biogenic ⁵	157	138	133	136	139	138	141
Other Biomass ⁶	10	29	23	20	19	22	22
Wood and Derived Fuels ⁹	150	167	165	185	182	186	181
Geothermal	305	303	311	309	306	308	312
Conventional Hydro.	2,650	2,781	2,656	2,670	2,839	2,430	2,433
Solar ⁷	6	5	6	6	5	6	8
Wind	105	115	142	178	264	341	514

*Less than 0.5 trillion Btu

[^]Preliminary

¹Biodiesel primarily derived from soy bean oil.

²Difference between the energy in biodiesel feedstocks (principally soy bean oil) and the energy in biodiesel consumed in the transportation sector.

³Ethanol primarily derived from corn.

⁴Difference between energy in ethanol feedstocks (primarily corn) and its coproducts (wet and dry distiller grains), and the energy in ethanol consumed in the transportation sector.

⁵Includes paper and paper board, wood, food, leather, textiles and yard trimmings.

⁶Agriculture byproducts/crops, sludge waste, and other biomass solids, liquids and gases.

⁷Includes small amounts of distributed solar thermal and photovoltaic energy used in the commercial, industrial and electric power sectors.

⁸Wood and wood pellet fuels.

⁹Black liquor, and wood/woodwaste solids and liquids.

¹⁰The electric power sector comprises electricity-only and combined-heat-power (CHP) plants within North American Classification System (NAICS) 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

Note: Revisions to biomass removed MSW non-biogenic and tires from renewable waste energy

Source: [EIA, Renewable Energy Consumption and Electricity - Preliminary Statistics 2008](#)