

Table 2. Renewable Energy Consumption by Energy Use Sector and Energy Source, 2003-2007
 (Quadrillion Btu)

Sector and Source	2003	2004	2005	2006	2007
Total	6.150	6.261	6.444	6.922	6.830
Biomass	2.817	3.023	3.154	3.374	3.615
Biofuels	0.414	0.513	0.595	0.795	1.018
Biodiesel ^a	0.002	0.004	0.012	0.032	0.063
Biodiesel Feedstock ^b	*	*	*	*	0.001
Ethanol ^c	0.238	0.299	0.342	0.462	0.577
Ethanol Feedstock ^d	0.174	0.210	0.241	0.301	0.378
Waste	0.401	0.389	0.403	0.407	0.431
Landfill Gas	0.141	0.144	0.148	0.150	0.174
MSW Biogenic ^e	0.165	0.164	0.168	0.171	0.174
Other Biomass ^f	0.096	0.081	0.088	0.086	0.083
Wood and Derived Fuels	2.002	2.121	2.156	2.172	2.165
Geothermal	0.331	0.341	0.343	0.343	0.353
Hydroelectric Conventional	2.825	2.690	2.703	2.869	2.463
Solar/PV	0.064	0.065	0.066	0.072	0.080
Wind	0.115	0.142	0.178	0.264	0.319
Residential	0.471	0.483	0.527	0.495	0.556
Biomass	0.400	0.410	0.450	0.410	0.460
Wood and Derived Fuels ^g	0.400	0.410	0.450	0.410	0.460
Geothermal	0.013	0.014	0.016	0.018	0.022
Solar/PV ^h	0.058	0.059	0.061	0.067	0.074
Commercial	0.113	0.118	0.119	0.117	0.119
Biomass	0.101	0.105	0.105	0.102	0.104
Biofuels	0.001	0.001	0.001	0.001	0.002
Ethanol ^c	0.001	0.001	0.001	0.001	0.002
Waste	0.029	0.034	0.034	0.036	0.037
Landfill Gas	0.002	0.002	0.003	0.004	0.005
MSW Biogenic	0.022	0.025	0.025	0.026	0.025
Other Biomass ^f	0.005	0.007	0.007	0.007	0.007
Wood and Derived Fuels ⁱ	0.071	0.070	0.070	0.065	0.065
Geothermal	0.011	0.012	0.014	0.014	0.014
Hydroelectric Conventional	0.001	0.001	0.001	0.001	0.001
Industrial	1.731	1.861	1.884	1.999	2.025
Biomass	1.684	1.824	1.848	1.966	1.998
Biofuels	0.178	0.217	0.248	0.311	0.391
Ethanol ^c	0.005	0.006	0.007	0.009	0.012
Losses and Coproducts	0.174	0.210	0.241	0.301	0.379
Biodiesel Feedstock ^b	*	*	*	*	0.001
Ethanol Feedstock ^d	0.174	0.210	0.241	0.301	0.378
Waste	0.142	0.132	0.148	0.140	0.151
Landfill Gas	0.076	0.075	0.081	0.074	0.089
MSW Biogenic ^e	0.005	0.006	0.007	0.006	0.006
Other Biomass ^f	0.062	0.050	0.061	0.061	0.055
Wood and Derived Fuels ⁱ	1.363	1.476	1.452	1.515	1.457
Geothermal	0.003	0.004	0.004	0.004	0.005
Hydroelectric Conventional	0.043	0.033	0.032	0.029	0.023
Transportation	0.235	0.296	0.346	0.483	0.626
Biofuels	0.235	0.296	0.346	0.483	0.626
Biodiesel ^a	0.002	0.004	0.012	0.032	0.063
Ethanol ^c	0.233	0.292	0.334	0.451	0.564
Electric Power ^j	3.601	3.503	3.568	3.827	3.503
Biomass	0.397	0.388	0.406	0.412	0.427
Waste	0.230	0.223	0.221	0.231	0.243
Landfill Gas	0.063	0.066	0.065	0.073	0.080
MSW Biogenic	0.138	0.133	0.136	0.139	0.143
Other Biomass ^f	0.029	0.023	0.020	0.019	0.021
Wood and Derived Fuels ⁱ	0.167	0.165	0.185	0.182	0.184
Geothermal	0.303	0.311	0.309	0.306	0.312
Hydroelectric Conventional	2.781	2.656	2.670	2.839	2.440

See footnotes at end of table.

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 (Quadrillion Btu)

Sector and Source	2003	2004	2005	2006	2007
Solar/PV	0.005	0.006	0.006	0.005	0.006
Wind	0.115	0.142	0.178	0.264	0.319

^a Biodiesel primarily derived from soy bean oil.

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

^c Ethanol primarily derived from corn.

^d Difference 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.

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

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

^g Wood and wood pellet fuels.

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

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

^j The 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.

PV=Photovoltaic.

MSW=Municipal Solid Waste.

*=Less than 500 billion Btu.

NA=Not Applicable.

Note: Totals may not equal sum of components due to independent rounding. Data for 2007 is preliminary.

Sources: Analysis conducted by Energy Information Administration, Office of Coal, Nuclear, Electric, and Alternate Fuels and specific sources described as follows. Residential: Energy Information Administration, Form EIA-457A/G, "Residential Energy Consumption Survey;" Oregon Institute of Technology, Geo-Heat Center; and Energy Information Administration, Form EIA-63-A, "Annual Solar Thermal Collector Manufacturers Survey" and Form EIA-63B, "Annual Photovoltaic Module/Cell Manufacturers Survey." Commercial: Energy Information Administration, Form EIA-906, "Power Plant Report", Form EIA-920, "Combined Heat and Power Plant Report;" and Oregon Institute of Technology, Geo-Heat Center. Industrial: Energy Information Administration, Form EIA-846 (A, B, C) "Manufacturing Energy Consumption Survey," Form EIA-906, "Power Plant Report" and Form EIA-920, "Combined Heat and Power Plant Report;" Oregon Institute of Technology, Geo-Heat Center; Government Advisory Associates, Resource Recovery Yearbook and Methane Recovery Yearbook; U.S. Environmental Protection Agency, Landfill Methane Outreach Program estimates; and losses and coproducts from the production of biodiesel and ethanol calculated as the difference between energy in feedstocks and production. Biofuels for Transportation: Biodiesel: 2001-2005: U.S. Department of Agriculture, Commodity Credit Corporation, Bioenergy Program estimates of production assigned to consumption and 2006 and forward: U.S. Department of Commerce, Bureau of Census, Current Industrial Reports, Fats and Oils - Production, Consumption and Stocks, and Ethanol: 2001-2004: EIA, Petroleum Supply Annual, Tables 2 and 16. Calculated as ten percent of oxygenated finished motor gasoline field production (Table 2) plus fuel ethanol refinery input (Table 16). 2005: EIA Petroleum Supply Annual 2005, Tables 1 and 15. Calculated as motor gasoline blending components adjustments (Table 1), plus finished motor gasoline adjustments (Table 1), plus fuel ethanol refinery and blender net inputs (Table 15). 2006: EIA Petroleum Supply Monthly, monthly reports, Tables 1 and 27. Calculated as motor gasoline blending components adjustments (Table 1), plus finished motor gasoline adjustments (Table 1), plus fuel ethanol refinery and blender net inputs (Table 27). Small amounts of ethanol consumption are distributed to the commercial and industrial sectors according to those sector's shares of U.S. motor gasoline supplied. Electric Power: Energy Information Administration, Form EIA-906, "Power Plant Report" and Form EIA-920, "Combined Heat and Power Plant Report."