

**Table 1.4. Renewable Energy Consumption for Nonelectric Use by Energy Use Sector and Energy Source, 2002-2006
 (Quadrillion Btu)**

Sector/Source	2002	2003	2004	2005	2006
Total	1.927	2.135	2.325	2.515	2.693
Biomass	1.844	2.049	2.236	2.421	2.589
Biofuels	0.309	0.414	0.513	0.595	0.795
Biodiesel ^a	0.001	0.002	0.004	0.012	0.032
Biodiesel Feedstock ^b	*	*	*	*	*
Ethanol ^c	0.175	0.238	0.299	0.342	0.462
Ethanol Feedstock ^d	0.133	0.174	0.210	0.241	0.301
Waste	0.145	0.153	0.135	0.152	0.145
Landfill Gas	0.078	0.075	0.074	0.079	0.073
MSW Biogenic ^e	0.016	0.016	0.014	0.016	0.016
Other Biomass ^f	0.050	0.061	0.047	0.056	0.055
Wood and Derived Fuels	1.390	1.483	1.588	1.674	1.649
Geothermal	0.024	0.027	0.030	0.034	0.037
Solar/PV	0.059	0.058	0.059	0.061	0.067
Residential	0.449	0.471	0.483	0.527	0.495
Biomass	0.380	0.400	0.410	0.450	0.410
Wood and Derived Fuels ^g	0.380	0.400	0.410	0.450	0.410
Geothermal	0.010	0.013	0.014	0.016	0.018
Solar/PV ^h	0.059	0.058	0.059	0.061	0.067
Commercial	0.085	0.092	0.095	0.093	0.089
Biomass	0.077	0.081	0.083	0.079	0.075
Biofuels	*	0.001	0.001	0.001	0.001
Ethanol ^c	*	0.001	0.001	0.001	0.001
Waste	0.008	0.010	0.012	0.009	0.010
Landfill Gas	-	-	-	*	*
MSW Biogenic ^e	0.007	0.009	0.009	0.008	0.008
Other Biomass ^f	0.001	0.001	0.002	0.001	0.001
Wood and Derived Fuels ⁱ	0.068	0.071	0.070	0.069	0.064
Geothermal	0.009	0.011	0.012	0.014	0.014
Industrial	1.204	1.312	1.442	1.537	1.613
Biomass	1.200	1.308	1.438	1.533	1.608
Biofuels	0.136	0.178	0.217	0.248	0.311
Ethanol ^c	0.003	0.005	0.006	0.007	0.009
Losses and Coproducts	0.133	0.174	0.210	0.241	0.301
Biodiesel Feedstock ^b	*	*	*	*	*
Ethanol Feedstock ^d	0.133	0.174	0.210	0.241	0.301
Waste	0.131	0.129	0.121	0.139	0.133
Landfill Gas	0.078	0.075	0.074	0.079	0.073
MSW Biogenic ^e	0.004	0.004	0.004	0.006	0.006
Other Biomass ^f	0.049	0.050	0.042	0.053	0.054
Wood and Derived Fuels ⁱ	0.932	1.001	1.100	1.146	1.165
Geothermal	0.005	0.003	0.004	0.004	0.004
Transportation	0.172	0.235	0.296	0.346	0.483
Biofuels	0.172	0.235	0.296	0.346	0.483
Biodiesel ^a	0.001	0.002	0.004	0.012	0.032
Ethanol ^c	0.171	0.233	0.292	0.334	0.451
Electric Power ^j	0.016	0.025	0.010	0.013	0.012
Biomass	0.016	0.025	0.010	0.013	0.012
Waste	0.006	0.014	0.003	0.003	0.003
Landfill Gas	*	*	-	*	-
MSW Biogenic ^e	0.005	0.003	*	0.002	0.002
Other Biomass ^f	0.001	0.011	0.002	0.002	*
Wood and Derived Fuels ⁱ	0.010	0.011	0.008	0.009	0.010

Table 1.4. Renewable Energy Consumption for Nonelectric Use by Energy Use Sector and Energy Source, 2002-2006 (Quadrillion Btu)

Sector/Source	2002	2003	2004	2005	2006
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- ^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, tires, 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: Data revisions are discussed in the Highlights section. Revisions to biomass removed MSW non-biogenic and tires from renewable waste energy. Dash indicates the sector has no data to report for the energy source for that year. Totals may not equal sum of components due to independent rounding.

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-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-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 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-920, "Combined Heat and Power Plant Report."