

Table 8. U.S. Renewable Energy Consumption (Quadrillion Btu)

U.S. Energy Information Administration | Short-Term Energy Outlook - January 2017

	2016				2017				2018				Year		
	1st	2nd	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	2016	2017	2018
Electric Power Sector															
Hydroelectric Power (a)	0.709	0.684	0.528	0.558	0.603	0.694	0.613	0.515	0.632	0.735	0.639	0.519	2.479	2.425	2.526
Wood Biomass (b)	0.061	0.049	0.060	0.050	0.054	0.048	0.060	0.054	0.055	0.050	0.062	0.055	0.220	0.216	0.222
Waste Biomass (c)	0.070	0.072	0.072	0.070	0.067	0.067	0.070	0.068	0.066	0.068	0.071	0.069	0.285	0.272	0.273
Wind	0.575	0.529	0.452	0.566	0.557	0.576	0.409	0.578	0.620	0.639	0.454	0.625	2.122	2.120	2.338
Geothermal	0.040	0.039	0.040	0.041	0.040	0.040	0.041	0.040	0.039	0.039	0.040	0.040	0.161	0.161	0.158
Solar	0.061	0.093	0.108	0.067	0.067	0.124	0.122	0.075	0.085	0.152	0.150	0.088	0.330	0.388	0.475
Subtotal	1.517	1.466	1.259	1.354	1.388	1.549	1.315	1.331	1.498	1.684	1.414	1.396	5.596	5.582	5.992
Industrial Sector															
Hydroelectric Power (a)	0.004	0.003	0.002	0.004	0.004	0.003	0.002	0.003	0.004	0.003	0.002	0.003	0.013	0.013	0.013
Wood Biomass (b)	0.319	0.312	0.318	0.314	0.304	0.301	0.312	0.314	0.305	0.301	0.311	0.313	1.262	1.230	1.230
Waste Biomass (c)	0.047	0.048	0.048	0.051	0.050	0.049	0.047	0.050	0.050	0.048	0.047	0.050	0.194	0.195	0.195
Geothermal	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.004	0.004
Biofuel Losses and Co-products (f)	0.196	0.193	0.203	0.210	0.198	0.200	0.205	0.201	0.204	0.204	0.205	0.199	0.801	0.803	0.811
Subtotal	0.570	0.562	0.576	0.583	0.560	0.558	0.571	0.572	0.567	0.561	0.571	0.570	2.290	2.261	2.269
Commercial Sector															
Wood Biomass (b)	0.018	0.018	0.019	0.019	0.020	0.019	0.020	0.019	0.019	0.019	0.020	0.019	0.074	0.078	0.078
Waste Biomass (c)	0.013	0.012	0.012	0.013	0.013	0.012	0.012	0.013	0.013	0.012	0.012	0.013	0.049	0.049	0.049
Geothermal	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.020	0.020	0.020
Subtotal	0.052	0.057	0.058	0.053	0.055	0.061	0.062	0.055	0.057	0.064	0.065	0.057	0.221	0.234	0.242
Residential Sector															
Wood Biomass (b)	0.096	0.096	0.097	0.105	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.394	0.426	0.426
Geothermal	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.044	0.045	0.045
Solar (d)	0.031	0.047	0.049	0.036	0.037	0.057	0.060	0.044	0.045	0.069	0.071	0.052	0.163	0.198	0.237
Subtotal	0.138	0.154	0.157	0.153	0.155	0.175	0.178	0.162	0.163	0.186	0.189	0.169	0.601	0.669	0.708
Transportation Sector															
Ethanol (e)	0.283	0.290	0.300	0.297	0.278	0.297	0.303	0.290	0.282	0.299	0.304	0.293	1.169	1.169	1.177
Biomass-based Diesel (e)	0.051	0.066	0.088	0.078	0.059	0.071	0.086	0.087	0.072	0.078	0.089	0.091	0.283	0.304	0.330
Subtotal	0.334	0.356	0.388	0.374	0.337	0.368	0.390	0.377	0.353	0.376	0.394	0.383	1.451	1.472	1.507
All Sectors Total															
Hydroelectric Power (a)	0.713	0.687	0.530	0.562	0.607	0.698	0.616	0.518	0.636	0.739	0.642	0.523	2.493	2.439	2.540
Wood Biomass (b)	0.494	0.475	0.493	0.491	0.484	0.475	0.498	0.493	0.486	0.476	0.499	0.494	1.953	1.950	1.956
Waste Biomass (c)	0.130	0.132	0.131	0.133	0.129	0.128	0.129	0.130	0.129	0.128	0.130	0.131	0.527	0.516	0.517
Wind	0.575	0.529	0.452	0.566	0.557	0.576	0.409	0.578	0.620	0.639	0.454	0.625	2.122	2.120	2.338
Geothermal	0.057	0.056	0.057	0.058	0.058	0.057	0.058	0.058	0.057	0.056	0.057	0.057	0.229	0.230	0.227
Solar	0.109	0.165	0.181	0.122	0.125	0.211	0.212	0.141	0.154	0.254	0.254	0.164	0.577	0.689	0.826
Ethanol (e)	0.287	0.295	0.305	0.299	0.283	0.302	0.309	0.295	0.286	0.304	0.309	0.298	1.186	1.188	1.197
Biomass-based Diesel (e)	0.051	0.066	0.088	0.078	0.059	0.071	0.086	0.087	0.072	0.078	0.089	0.091	0.283	0.304	0.330
Biofuel Losses and Co-products (f)	0.196	0.193	0.203	0.210	0.198	0.200	0.205	0.201	0.204	0.204	0.205	0.199	0.801	0.803	0.811
Total Consumption	2.611	2.595	2.438	2.495	2.496	2.710	2.515	2.497	2.638	2.871	2.633	2.576	10.139	10.218	10.718

- = no data available

(a) Conventional hydroelectric power only. Hydroelectricity generated by pumped storage is not included in renewable energy.

(b) Wood and wood-derived fuels.

(c) Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.

(d) Includes small-scale solar thermal and photovoltaic energy used in the commercial, industrial, and electric power sectors.

(e) Fuel ethanol and biomass-based diesel consumption in the transportation sector includes production, stock change, and imports less exports. Some biomass-based diesel may be consumed in the residential sector in heating oil.

(f) Losses and co-products from the production of fuel ethanol and biomass-based diesel

Notes: The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.**Historical data:** Latest data available from EIA databases supporting the following reports: *Electric Power Monthly*, DOE/EIA-0226 and *Renewable Energy Annual*, DOE/EIA-0603; *Petroleum Supply Monthly*, DOE/EIA-0109.

Minor discrepancies with published historical data are due to independent rounding.

Projections: EIA Regional Short-Term Energy Model.