

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

U.S. Energy Information Administration | Short-Term Energy Outlook - May 2025

	2024				2025				2026				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2024	2025	2026
All Sectors	2.085	2.229	2.138	2.125	2.135	2.389	2.270	2.227	2.286	2.527	2.371	2.299	8.577	9.021	9.483
Biodiesel, renewable diesel, and other (g)	0.177	0.193	0.203	0.192	0.135	0.174	0.192	0.195	0.180	0.206	0.209	0.203	0.765	0.695	0.797
Biofuel losses and co-products (d)	0.209	0.204	0.218	0.223	0.213	0.209	0.211	0.216	0.210	0.209	0.210	0.217	0.854	0.849	0.846
Ethanol (f)	0.279	0.294	0.304	0.303	0.284	0.299	0.298	0.295	0.275	0.295	0.296	0.295	1.180	1.177	1.162
Geothermal	0.030	0.029	0.029	0.029	0.029	0.028	0.030	0.030	0.029	0.028	0.030	0.030	0.117	0.117	0.117
Hydroelectric power (a)	0.223	0.216	0.202	0.186	0.216	0.259	0.215	0.198	0.237	0.270	0.220	0.199	0.826	0.888	0.927
Solar (b)(f)	0.202	0.329	0.338	0.230	0.260	0.424	0.428	0.276	0.308	0.486	0.493	0.318	1.098	1.389	1.606
Waste biomass (c)	0.098	0.093	0.093	0.095	0.094	0.093	0.094	0.095	0.093	0.093	0.095	0.095	0.379	0.376	0.376
Wood biomass	0.451	0.448	0.459	0.454	0.453	0.469	0.498	0.495	0.488	0.482	0.501	0.496	1.811	1.915	1.967
Wind	0.416	0.424	0.292	0.414	0.450	0.434	0.304	0.427	0.466	0.457	0.318	0.446	1.546	1.616	1.686
Electric power sector	0.863	0.952	0.822	0.846	0.939	1.089	0.930	0.912	1.014	1.172	1.000	0.965	3.482	3.869	4.151
Geothermal	0.014	0.013	0.013	0.013	0.013	0.012	0.014	0.014	0.013	0.012	0.014	0.014	0.053	0.053	0.054
Hydroelectric power (a)	0.222	0.214	0.201	0.185	0.215	0.258	0.214	0.197	0.236	0.269	0.219	0.199	0.822	0.884	0.923
Solar (b)	0.129	0.223	0.233	0.157	0.181	0.307	0.312	0.196	0.220	0.357	0.364	0.230	0.741	0.995	1.171
Waste biomass (c)	0.040	0.038	0.040	0.038	0.038	0.038	0.040	0.039	0.038	0.038	0.040	0.039	0.156	0.155	0.155
Wood biomass	0.041	0.040	0.043	0.039	0.042	0.040	0.046	0.039	0.041	0.039	0.044	0.038	0.162	0.167	0.162
Wind	0.416	0.424	0.292	0.414	0.450	0.434	0.304	0.427	0.466	0.457	0.318	0.446	1.546	1.616	1.686
Industrial sector (e)	0.563	0.555	0.573	0.579	0.567	0.582	0.604	0.613	0.598	0.596	0.608	0.617	2.271	2.366	2.420
Biofuel losses and co-products (d)	0.209	0.204	0.218	0.223	0.213	0.209	0.211	0.216	0.210	0.209	0.210	0.217	0.854	0.849	0.846
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
Hydroelectric power (a)	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.003	0.003
Solar (b)	0.004	0.005	0.005	0.004	0.004	0.006	0.006	0.004	0.004	0.006	0.006	0.004	0.018	0.019	0.021
Waste biomass (c)	0.040	0.038	0.036	0.039	0.039	0.038	0.037	0.039	0.039	0.038	0.037	0.039	0.153	0.154	0.153
Wood biomass	0.304	0.301	0.308	0.307	0.304	0.323	0.343	0.348	0.339	0.336	0.348	0.351	1.219	1.317	1.374
Commercial sector (e)	0.063	0.070	0.071	0.063	0.064	0.073	0.074	0.066	0.067	0.077	0.078	0.068	0.268	0.277	0.291
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
Solar (b)	0.016	0.023	0.024	0.016	0.018	0.026	0.027	0.018	0.021	0.030	0.030	0.021	0.079	0.089	0.103
Waste biomass (c)	0.018	0.017	0.017	0.017	0.016	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.069	0.068	0.068
Wood biomass	0.018	0.018	0.018	0.018	0.018	0.017	0.018	0.018	0.018	0.017	0.018	0.018	0.072	0.072	0.072
Residential sector	0.152	0.176	0.176	0.153	0.158	0.184	0.184	0.158	0.162	0.192	0.192	0.163	0.658	0.684	0.709
Geothermal	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.040	0.040	0.040
Solar (f)	0.053	0.077	0.076	0.053	0.058	0.085	0.084	0.058	0.062	0.093	0.092	0.063	0.260	0.285	0.311
Wood biomass	0.089	0.089	0.090	0.090	0.090	0.089	0.090	0.090	0.090	0.089	0.090	0.090	0.358	0.359	0.359
Transportation sector	0.445	0.476	0.495	0.483	0.408	0.462	0.478	0.478	0.444	0.489	0.493	0.486	1.898	1.825	1.912
Biodiesel, renewable diesel, and other (g)	0.177	0.193	0.203	0.192	0.135	0.174	0.192	0.195	0.180	0.206	0.209	0.203	0.765	0.695	0.797
Ethanol (g)	0.267	0.282	0.292	0.291	0.273	0.287	0.286	0.284	0.264	0.284	0.284	0.283	1.133	1.130	1.115

(a) Energy consumption for conventional hydroelectric power only. Hydroelectricity generated by pumped storage is not included in renewable energy.

(b) Solar energy consumption by utility-scale power plants (capacity greater than or equal to 1 megawatt) in the electric power, commercial, and industrial sectors and energy consumption by small-scale solar photovoltaic systems (less than 1 megawatts in size).

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

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

(e) Subtotals for the industrial and commercial sectors might not equal the sum of the components. The subtotal for the industrial sector includes ethanol consumption that is not shown separately. The subtotal for the commercial sector includes ethanol and hydroelectric consumption that are not shown separately.

(f) Solar consumption in the residential sector includes energy from small-scale solar photovoltaic systems (<1 megawatt), and it includes solar heating consumption in all sectors.

(g) Fuel ethanol and biodiesel, renewable diesel, and other biofuels 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.

Notes:

EIA completed modeling and analysis for this report on May 1, 2025.

The approximate break between historical and forecast values is shown with historical data with no shading; estimates and forecasts are shaded gray.

Sources:

Monthly Energy Review, and Petroleum Supply Monthly.

Minor discrepancies with published historical data are due to independent rounding and possible revisions not yet reflected in the STEO.

Forecasts: EIA Short-Term Integrated Forecasting System.