

Table 8. U.S. Renewable Energy Consumption (Quadrillion Btu)
 U.S. Energy Information Administration | Short-Term Energy Outlook - June 2024

	2023				2024				2025				Year		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2023	2024	2025
Electric Power Sector															
Geothermal	0.014	0.014	0.014	0.014	0.013	0.012	0.013	0.014	0.013	0.010	0.014	0.014	0.056	0.053	0.051
Hydroelectric Power (a)	0.208	0.219	0.200	0.188	0.214	0.231	0.211	0.200	0.237	0.266	0.216	0.199	0.814	0.857	0.918
Solar (b)	0.100	0.167	0.177	0.114	0.128	0.236	0.249	0.158	0.177	0.294	0.310	0.189	0.558	0.770	0.970
Waste Biomass (c)	0.043	0.041	0.042	0.041	0.042	0.041	0.042	0.041	0.041	0.041	0.042	0.041	0.167	0.167	0.165
Wood Biomass	0.044	0.040	0.045	0.033	0.038	0.042	0.051	0.041	0.043	0.041	0.051	0.039	0.162	0.172	0.174
Wind	0.430	0.350	0.289	0.382	0.418	0.385	0.309	0.409	0.436	0.398	0.318	0.422	1.450	1.520	1.574
Subtotal	0.838	0.830	0.766	0.773	0.853	0.947	0.875	0.865	0.947	1.051	0.949	0.905	3.207	3.539	3.852
Industrial Sector															
Biofuel Losses and Co-products (d)	0.199	0.202	0.206	0.214	0.208	0.209	0.212	0.213	0.206	0.207	0.208	0.212	0.821	0.842	0.833
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)	0.003	0.005	0.005	0.003	0.004	0.005	0.005	0.004	0.004	0.006	0.006	0.004	0.016	0.018	0.019
Waste Biomass (c)	0.041	0.040	0.037	0.042	0.041	0.039	0.038	0.042	0.041	0.039	0.039	0.041	0.160	0.160	0.160
Wood Biomass	0.318	0.300	0.299	0.307	0.305	0.322	0.344	0.349	0.340	0.336	0.348	0.351	1.224	1.320	1.375
Subtotal (e)	0.568	0.553	0.554	0.573	0.565	0.582	0.607	0.614	0.597	0.595	0.607	0.615	2.249	2.368	2.414
Commercial Sector															
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)	0.014	0.021	0.021	0.014	0.016	0.023	0.024	0.016	0.019	0.027	0.027	0.019	0.069	0.079	0.092
Waste Biomass (c)	0.017	0.017	0.018	0.018	0.017	0.017	0.018	0.019	0.017	0.017	0.018	0.019	0.071	0.071	0.071
Wood Biomass	0.020	0.020	0.021	0.021	0.020	0.020	0.021	0.021	0.020	0.020	0.021	0.021	0.082	0.082	0.082
Subtotal (e)	0.064	0.071	0.073	0.066	0.066	0.074	0.076	0.069	0.069	0.078	0.079	0.071	0.274	0.285	0.298
Residential Sector															
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	0.039	0.040
Solar (f)	0.045	0.069	0.070	0.051	0.054	0.079	0.078	0.054	0.058	0.087	0.087	0.060	0.235	0.265	0.291
Wood Biomass	0.111	0.112	0.114	0.114	0.104	0.112	0.114	0.114	0.104	0.112	0.114	0.114	0.450	0.443	0.443
Subtotal	0.166	0.191	0.193	0.174	0.168	0.201	0.202	0.177	0.172	0.209	0.210	0.183	0.725	0.748	0.774
Transportation Sector															
Biodiesel, Renewable Diesel, and Other (g)	0.140	0.173	0.175	0.172	0.177	0.186	0.193	0.212	0.205	0.216	0.220	0.231	0.660	0.768	0.872
Ethanol (g)	0.268	0.284	0.286	0.286	0.267	0.285	0.290	0.286	0.268	0.285	0.288	0.287	1.125	1.127	1.128
Subtotal	0.408	0.457	0.462	0.458	0.444	0.471	0.482	0.498	0.473	0.501	0.508	0.518	1.785	1.895	2.000
All Sectors Total															
Biodiesel, Renewable Diesel, and Other (g)	0.140	0.173	0.175	0.172	0.177	0.186	0.193	0.212	0.205	0.216	0.220	0.231	0.660	0.768	0.872
Biofuel Losses and Co-products (d)	0.199	0.202	0.206	0.214	0.208	0.209	0.212	0.213	0.206	0.207	0.208	0.212	0.821	0.842	0.833
Ethanol (f)	0.281	0.298	0.299	0.300	0.279	0.298	0.303	0.299	0.281	0.298	0.301	0.300	1.177	1.179	1.180
Geothermal	0.030	0.029	0.030	0.030	0.029	0.028	0.029	0.030	0.028	0.026	0.030	0.030	0.120	0.116	0.115
Hydroelectric Power (a)	0.209	0.220	0.201	0.189	0.215	0.232	0.211	0.201	0.238	0.267	0.217	0.200	0.818	0.860	0.922
Solar (b)(f)	0.162	0.262	0.272	0.181	0.201	0.343	0.356	0.232	0.258	0.414	0.429	0.272	0.878	1.132	1.372
Waste Biomass (c)	0.102	0.098	0.097	0.101	0.101	0.098	0.099	0.102	0.099	0.098	0.098	0.101	0.398	0.399	0.396
Wood Biomass	0.493	0.472	0.478	0.475	0.468	0.496	0.530	0.524	0.507	0.510	0.533	0.524	1.918	2.017	2.075
Wind	0.430	0.350	0.289	0.382	0.418	0.385	0.309	0.409	0.436	0.398	0.318	0.422	1.450	1.520	1.574
Total Consumption	2.045	2.104	2.048	2.044	2.095	2.275	2.242	2.222	2.258	2.434	2.354	2.292	8.241	8.834	9.338

Notes: EIA completed modeling and analysis for this report on June 6, 2024.

The approximate break between historical and forecast values is shown with historical data printed in bold; estimates and forecasts in italics.

(a) Energy consumption for conventional hydroelectric power only. Hydroelectricity generated by pumped storage is not included in renewable energy, 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. Some biomass-based diesel may be consumed in the residential sector in heating oil.

Historical data: Latest data available from EIA databases supporting the following reports: Electric Power Monthly, Electric Power Annual, Minor discrepancies with published historical data are due to independent rounding and possible revisions not yet reflected in the STEO.

Forecast data: EIA Short-Term Integrated Forecasting System.