

STEO Current/Previous Forecast Comparisons: U.S. Renewable Energy Consumption and Capacity

Current Forecast: December 11, 2018; Previous Forecast: November 6, 2018

	2017				2018				2019				Year				Growth Rate		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2016	2017	2018	2019	2016-2017	2017-2018	2018-2019
U.S. Renewable Energy Consumption, All Sectors (quadrillion btu)																			
U.S. Wind Power																			
Current	0.609	0.617	0.438	0.682	0.722	0.689	0.494	0.709	0.749	0.771	0.575	0.802	2.094	2.346	2.613	2.897	12.0%	11.4%	10.9%
Previous	0.609	0.617	0.438	0.682	0.722	0.689	0.492	0.665	0.696	0.717	0.517	0.743	2.094	2.346	2.568	2.673	12.0%	9.5%	4.1%
Percent Change	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	6.5%	7.8%	7.6%	11.1%	7.9%	0.0%	0.0%	1.7%	8.4%			
U.S. Wood Biomass																			
Current	0.542	0.534	0.554	0.556	0.555	0.552	0.566	0.547	0.533	0.528	0.551	0.546	2.131	2.187	2.220	2.159	2.6%	1.5%	-2.7%
Previous	0.542	0.534	0.554	0.556	0.555	0.552	0.564	0.548	0.533	0.527	0.550	0.545	2.131	2.187	2.219	2.156	2.6%	1.5%	-2.9%
Percent Change	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	-0.2%	0.1%	0.2%	0.2%	0.2%	0.0%	0.0%	0.0%	0.1%			
U.S. Solar Power																			
Current	0.136	0.236	0.236	0.166	0.183	0.295	0.287	0.200	0.209	0.324	0.326	0.228	0.569	0.774	0.965	1.087	36.2%	24.6%	12.7%
Previous	0.136	0.236	0.236	0.166	0.183	0.295	0.286	0.200	0.209	0.324	0.325	0.229	0.569	0.774	0.964	1.087	36.2%	24.4%	12.8%
Percent Change	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%	-0.1%	0.0%	0.1%	-0.2%	0.0%	0.0%	0.1%	0.0%			
U.S. Ethanol																			
Current	0.279	0.304	0.307	0.303	0.283	0.297	0.305	0.309	0.285	0.307	0.308	0.303	1.182	1.192	1.194	1.203	0.9%	0.2%	0.7%
Previous	0.279	0.304	0.307	0.303	0.283	0.297	0.308	0.305	0.284	0.306	0.308	0.303	1.182	1.192	1.193	1.201	0.9%	0.1%	0.7%
Percent Change	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.8%	1.2%	0.3%	0.5%	-0.1%	0.0%	0.0%	0.0%	0.1%	0.2%			
U.S. Biodiesel																			
Current	0.054	0.079	0.078	0.069	0.054	0.068	0.071	0.089	0.066	0.085	0.098	0.101	0.291	0.280	0.283	0.350	-3.6%	0.8%	23.9%
Previous	0.054	0.079	0.078	0.069	0.054	0.068	0.075	0.092	0.066	0.085	0.098	0.101	0.291	0.280	0.290	0.350	-3.6%	3.3%	20.9%
Percent Change	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-4.8%	-3.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-2.4%	0.0%			
U.S. Renewable Electric Power Sector Generation Capacity (MW)																			
Wind Power																			
Current	82,919	83,378	84,109	87,488	88,538	88,662	89,565	95,828	96,653	97,970	99,549	106,717	81,198	87,488	95,828	106,717	7.7%	9.5%	11.4%
Previous	82,919	83,378	84,109	87,488	88,538	88,662	89,565	95,419	96,178	97,650	99,071	107,081	81,198	87,488	95,419	107,081	7.7%	9.1%	12.2%
Percent Change	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.5%	0.3%	0.5%	-0.3%	0.0%	0.0%	0.4%	-0.3%			
Wood Biomass																			
Current	3,031	3,031	3,085	3,079	3,042	3,042	3,042	2,987	3,146	3,146	3,146	3,146	3,166	3,079	2,987	3,146	-2.7%	-3.0%	5.3%
Previous	3,031	3,031	3,085	3,079	3,042	3,042	3,042	2,987	3,146	3,146	3,146	3,146	3,166	3,079	2,987	3,146	-2.7%	-3.0%	5.3%
Percent Change	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
Solar Power																			
Current	22,591	23,624	24,134	26,432	27,956	28,799	29,283	32,115	32,720	33,449	33,742	36,371	21,631	26,432	32,115	36,371	22.2%	21.5%	13.3%
Previous	22,591	23,624	24,134	26,432	27,956	28,793	29,246	32,157	32,697	33,310	33,598	36,385	21,631	26,432	32,157	36,385	22.2%	21.7%	13.2%
Percent Change	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	-0.1%	0.1%	0.4%	0.4%	0.0%	0.0%	0.0%	-0.1%	0.0%			

Source: Energy Information Administration, Short-Term Energy Outlook (<http://www.eia.gov/outlooks/steo/>)