

STEO Current/Previous Forecast Comparisons: U.S. Coal and Carbon Dioxide Emissions

Current Forecast: April 9, 2024; Previous Forecast: March 12, 2024

	2023				2024				2025				Year				Growth Rate		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2022	2023	2024	2025	2022-2023	2023-2024	2024-2025
U.S. Coal (million short tons)																			
Production																			
Current	149	142	146	145	128	112	125	121	118	108	122	117	594	582	485	464	-2.1%	-16.6%	-4.3%
Previous	149	142	146	145	130	117	128	123	119	108	122	117	594	582	497	466	-2.1%	-14.6%	-6.2%
Percent Change	0.0%	0.0%	0.0%	0.0%	-1.7%	-4.4%	-2.1%	-1.2%	-0.6%	-0.7%	-0.2%	0.1%	0.0%	0.0%	-2.3%	-0.3%			
Exports																			
Current	25	24	25	26	24	20	24	26	25	25	26	29	86	100	94	105	16.1%	-5.3%	11.0%
Previous	25	24	25	26	25	25	24	26	25	26	26	28	86	100	101	106	16.1%	1.0%	5.0%
Percent Change	0.0%	0.0%	0.0%	0.0%	-2.7%	-19.3%	-2.9%	-0.4%	-1.6%	-2.8%	-0.8%	1.3%	0.0%	0.0%	-6.3%	-0.9%			
Imports																			
Current	1.0	1.0	1.0	1.0	0.5	0.7	1.1	0.8	0.5	0.7	1.1	0.8	6.3	4.0	3.1	3.0	-36.5%	-22.0%	-2.6%
Previous	1.0	1.0	1.0	1.0	0.5	0.8	1.2	0.9	0.5	0.7	1.1	0.8	6.3	4.0	3.4	3.1	-36.5%	-16.1%	-8.2%
Percent Change	0.0%	0.0%	0.0%	0.0%	-13.6%	-8.7%	-5.1%	-4.3%	-3.6%	-2.2%	-0.6%	-0.2%	0.0%	0.0%	-7.1%	-1.4%			
Electric Power Demand																			
Current	91	82	123	91	88	75	114	82	82	70	114	75	473	387	358	341	-18.1%	-7.5%	-4.9%
Previous	91	82	123	91	89	75	114	83	84	70	115	76	473	387	360	345	-18.1%	-7.0%	-4.3%
Percent Change	0.0%	0.0%	0.0%	0.0%	-1.4%	0.0%	0.0%	-1.3%	-2.4%	-0.2%	-1.3%	-0.7%	0.0%	0.0%	-0.6%	-1.2%			
Secondary Stocks																			
Current	113	132	121	136	139	149	133	138	140	145	123	128	93	136	138	128	46.3%	1.6%	-7.8%
Previous	113	132	121	136	143	153	140	145	145	151	128	132	93	136	145	132	46.3%	6.7%	-9.3%
Percent Change	0.0%	0.0%	0.0%	0.0%	-2.6%	-2.8%	-4.6%	-4.7%	-3.7%	-3.6%	-3.3%	-3.1%	0.0%	0.0%	-4.7%	-3.1%			
U.S. Carbon Dioxide Emissions																			
Petroleum																			
Current	549.8	564.5	571.6	573.2	560.0	571.8	574.1	570.8	555.7	567.6	571.0	568.9	2,249	2,259	2,277	2,263	0.4%	0.8%	-0.6%
Previous	547.8	562.9	570.0	578.3	565.6	566.4	570.0	568.1	553.9	566.0	569.7	568.6	2,249	2,259	2,270	2,258	0.4%	0.5%	-0.5%
Percent Change	0.4%	0.3%	0.3%	-0.9%	-1.0%	1.0%	0.7%	0.5%	0.3%	0.3%	0.2%	0.0%	0.0%	0.0%	0.3%	0.2%			
Coal																			
Current	186.6	168.0	240.7	185.8	165.1	156.1	225.3	171.5	171.4	148.9	226.3	160.6	939	781	718	707	-16.8%	-8.1%	-1.5%
Previous	186.6	168.0	240.6	185.2	183.6	155.4	224.3	172.4	174.4	148.4	228.1	160.8	939	780	736	712	-16.9%	-5.7%	-3.3%
Percent Change	0.0%	0.0%	0.1%	0.3%	-10.1%	0.4%	0.4%	-0.5%	-1.7%	0.3%	-0.8%	-0.1%	0.0%	0.1%	-2.4%	-0.7%			
Natural Gas																			
Current	501.1	382.7	416.4	455.6	510.7	385.2	419.1	459.9	508.9	378.9	411.2	457.9	1,742	1,756	1,775	1,757	0.8%	1.1%	-1.0%
Previous	500.8	382.6	416.2	459.8	510.8	383.9	418.1	459.9	507.8	379.6	411.1	460.0	1,742	1,759	1,773	1,759	1.0%	0.8%	-0.8%
Percent Change	0.1%	0.0%	0.1%	-0.9%	0.0%	0.3%	0.3%	0.0%	0.2%	-0.2%	0.0%	-0.5%	0.0%	-0.2%	0.1%	-0.1%			
Total Fossil Fuel																			
Current	1,237	1,115	1,229	1,215	1,236	1,113	1,219	1,202	1,236	1,095	1,208	1,187	4,930	4,796	4,770	4,727	-2.7%	-0.5%	-0.9%
Previous	1,235	1,113	1,227	1,223	1,260	1,106	1,212	1,201	1,236	1,094	1,209	1,189	4,930	4,799	4,778	4,728	-2.7%	-0.4%	-1.0%
Percent Change	0.2%	0.2%	0.2%	-0.7%	-1.9%	0.7%	0.5%	0.1%	0.0%	0.1%	0.0%	-0.2%	0.0%	-0.1%	-0.2%	0.0%			

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

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

Current Forecast: April 9, 2024; Previous Forecast: March 12, 2024

	2023				2024				2025				Year				Growth Rate		
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	2022	2023	2024	2025	2022-2023	2023-2024	2024-2025
U.S. Renewable Energy Consumption, All Sectors (quadrillion btu)																			
Wind Power																			
Current	0.430	0.350	0.289	0.382	0.427	0.379	0.310	0.408	0.440	0.390	0.318	0.421	1.481	1.450	1.524	1.569	-2.1%	5.1%	2.9%
Previous	0.430	0.350	0.289	0.382	0.440	0.374	0.306	0.405	0.455	0.388	0.317	0.421	1.481	1.450	1.525	1.581	-2.1%	5.2%	3.7%
Percent Change	0.0%	0.0%	0.0%	0.0%	-3.0%	1.5%	1.4%	0.7%	-3.5%	0.6%	0.4%	0.1%	0.0%	0.0%	0.0%	-0.7%			
Wood Biomass																			
Current	0.493	0.472	0.478	0.475	0.491	0.500	0.528	0.521	0.513	0.507	0.530	0.521	2.012	1.918	2.040	2.071	-4.7%	6.3%	1.5%
Previous	0.493	0.472	0.478	0.480	0.498	0.504	0.531	0.521	0.515	0.510	0.533	0.521	2.012	1.923	2.054	2.079	-4.4%	6.8%	1.2%
Percent Change	0.0%	0.1%	0.0%	-1.1%	-1.5%	-0.8%	-0.5%	0.0%	-0.6%	-0.5%	-0.4%	0.0%	0.0%	-0.3%	-0.7%	-0.4%			
Solar Power																			
Current	0.162	0.262	0.272	0.181	0.205	0.349	0.360	0.231	0.259	0.415	0.432	0.272	0.765	0.878	1.146	1.378	14.8%	30.5%	20.3%
Previous	0.162	0.262	0.272	0.181	0.213	0.343	0.363	0.233	0.263	0.415	0.431	0.272	0.765	0.877	1.152	1.381	14.8%	31.3%	19.8%
Percent Change	0.0%	0.0%	0.0%	0.0%	-3.8%	1.6%	-0.7%	-0.7%	-1.5%	0.1%	0.3%	-0.2%	0.0%	0.0%	-0.6%	-0.2%			
Ethanol																			
Current	0.281	0.298	0.299	0.300	0.283	0.299	0.303	0.298	0.280	0.300	0.301	0.299	1.163	1.177	1.183	1.180	1.2%	0.5%	-0.2%
Previous	0.281	0.298	0.299	0.300	0.284	0.300	0.304	0.299	0.281	0.301	0.302	0.300	1.163	1.177	1.186	1.185	1.2%	0.7%	-0.1%
Percent Change	0.0%	0.0%	0.0%	0.0%	-0.3%	-0.3%	-0.1%	-0.1%	-0.4%	-0.3%	-0.4%	-0.4%	0.0%	0.0%	-0.2%	-0.4%			
Biodiesel, Renewable Diesel, and Other																			
Current	0.140	0.173	0.175	0.172	0.169	0.185	0.188	0.202	0.201	0.219	0.225	0.235	0.462	0.660	0.744	0.880	42.9%	12.7%	18.2%
Previous	0.140	0.173	0.175	0.172	0.175	0.183	0.187	0.202	0.199	0.219	0.225	0.236	0.462	0.660	0.746	0.880	42.9%	13.1%	17.8%
Percent Change	0.0%	0.0%	0.0%	0.0%	-3.4%	1.5%	0.4%	0.1%	0.6%	0.2%	-0.2%	-0.5%	0.0%	0.0%	-0.3%	0.0%			
U.S. Renewable Electric Power Sector Generation Capacity (MW)																			
Wind Power																			
Current	143,004	144,442	144,617	147,645	150,458	151,887	152,039	154,502	155,233	155,829	156,292	160,094	141,275	147,645	154,502	160,094	4.5%	4.6%	3.6%
Previous	142,962	144,400	144,487	147,517	150,331	151,729	151,881	154,221	155,083	155,547	156,013	159,857	141,275	147,517	154,221	159,857	4.4%	4.5%	3.7%
Percent Change	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.2%	0.2%	0.1%	0.0%	0.1%	0.2%	0.1%			
Wood Biomass																			
Current	2,414	2,414	2,329	2,329	2,329	2,329	2,329	2,329	2,329	2,329	2,329	2,329	2,414	2,329	2,329	2,329	-3.5%	0.0%	0.0%
Previous	2,414	2,414	2,414	2,414	2,414	2,414	2,414	2,414	2,414	2,414	2,414	2,414	2,414	2,414	2,414	2,414	0.0%	0.0%	0.0%
Percent Change	0.0%	0.0%	-3.5%	-3.5%	-3.5%	-3.5%	-3.5%	-3.5%	-3.5%	-3.5%	-3.5%	-3.5%	0.0%	-3.5%	-3.5%	-3.5%			
Solar Power																			
Current	74,663	78,223	81,918	91,439	101,750	112,906	117,733	127,941	134,208	141,376	145,515	159,556	72,248	91,439	127,941	159,556	26.6%	39.9%	24.7%
Previous	74,643	78,192	81,873	91,275	101,824	112,779	117,463	127,145	133,721	141,789	145,913	162,006	72,248	91,275	127,145	162,006	26.3%	39.3%	27.4%
Percent Change	0.0%	0.0%	0.1%	0.2%	-0.1%	0.1%	0.2%	0.6%	0.4%	-0.3%	-0.3%	-1.5%	0.0%	0.2%	0.6%	-1.5%			

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