Monthly Flash Estimates of

Electric Power Data

Section 1. Commentary

The contiguous United States experienced temperatures that were slightly above normal in March 2011. Accordingly, the total population-weighted heating degree days for the United States were 1.2 percent below the March normal.

Retail sales of electricity decreased 0.2 percent from March 2010. Over the same period, the average U.S. retail price of electricity increased 1.1 percent. For the 12-month period ending March 2011, the average U.S. retail price of electricity increased 1.6 percent over the previous 12-month period ending March 2010.

In March 2011, total electric power generation in the United States increased 1.2 percent compared to March 2010 (the change in electric power generation does not necessarily coincide with the change in retail sales of electricity because utility billing cycles tend to lag electricity production in many areas). Over the same period, coal generation decreased 7.2 percent, while natural gas generation increased 1.7 percent and petroleum liquids generation increased 1.0 percent. Conventional hydroelectric generation had the largest percentage change, increasing 52.1 percent from the previous year. This was mainly due to record amounts of precipitation that fell in the Northwest region during March 2011.

Total coal stocks increased 3.2 percent from February 2011 as coal plants begin the spring build-up of coal for consumption in the summer months. Accordingly, the average number of days of burn for coal plants consuming bituminous or subbituminous coal as their primary fuel increased from the previous month.

References for weather data: http://www.ncdc.noaa.gov/oa/climate/research/2011/mar/national.html

Table of Contents

1.	Commentary	Page	1
2.	Key Indicators of Generation, Consumption & Stocks	Page	2
3.	Month-to-Month Comparisons: Generation, Consumption and Stocks (Total)	Page	3
4.	Net Generation Trends	Page	4
5.	Fossil Fuel Consumption Trends	Page	5
6.	Fossil Fuel Stock Trends	Page	6
7.	Average Number of Days of Burn Non-Lignite Coal	Page	7
8.	Month-to-Month Comparisons: Electric Power Retail Sales and Average Prices	s Page	8
9.	Retail Sales Trends	Page	9
10.	Average Retail Price Trends	Page	10
11.	Heating and Cooling Degree Days	Page	11
12.	Documentation	Page	12
This report v statistical ar should be at advocating of	was prepared by the U.S. Energy Information Administration, the independent analytical agency within the U.S. Department of Energy. The information contained herein ttributed to the U.S. Energy Information Administration and should not be construed as or reflecting any policy of the Department of Energy or any other organization. For additional	Cia U.S. E Inform	Energy mation

information, contact Chris Cassar at Christopher.Cassar@eia.gov.

Administration

Table 2.1 Key Generation Indicators									
TotalNuclearHydroelectrGenerationGenerationGeneration									
Total Change From:									
February 2011	0.9%	1.3%	28.9%						
March 2010	1.2%	1.6%	52.1%						
Year to Date	0.0%	0.4%	28.7%						
Latest 12 Month Period*	3.7%	1.5%	0.6%						

Table 2.2 Key Consumption and Stocks Indicators

	Natural Gas Consumption	Coal Consumption	Coal Stocks
Total Change From:			
February 2011	-2.8%	-1.7%	3.2%
March 2010	3.5%	-5.6%	-6.2%
Year to Date	1.2%	-4.5%	
Latest 12 Month Period*	6.8%	2.5%	-

Change in total consumption or generation for the latest 12 month period (April 2010 to March 2011) compared to the prior 12 month period (April 2009 to March 2010).

Net Generation (Total, All Sectors)

Table 3.1 Total Net Generation (All Sectors)										
Net Generation (thousand megawatthours)	Mar-11	Mar-10	% Change	Feb-11	% Change					
Coal	134,281	144,703	-7.2%	138,590	-3.1%					
Petroleum Liquids	1,245	1,233	1.0%	1,173	6.1%					
Natural Gas	63,604	62,548	1.7%	65,375	-2.7%					
Nuclear	65,662	64,635	1.6%	64,789	1.3%					
Hydroelectric Conventional	31,374	20,626	52.1%	24,346	28.9%					
All Other	19,079	17,857	6.8%	18,061	5.6%					
Total (All Energy Sources)	315,245	311,601	1.2%	312,334	0.9%					

Fossil Fuel Consumption for Electric Generation (Total, All Sectors)

Table 3.2 Total Consumption of Fossil Fuels for Electric Generation (All Sectors)										
Consumption of Fossil Fuels Mar-11 Mar-10 % Change Feb-11 % Change										
Coal (Thousand Short Tons)	72,298	76,548	-5.6%	73,570	-1.7%					
Petroleum Liquids (Thousand Barrels)	2,100	2,121	-1.0%	2,005	4.7%					
Natural Gas (Million Cubic Feet)	489,032	472,508	3.5%	502,903	-2.8%					

Fossil Fuel Stocks (Electric Power Sector)

Table 3.3 Total Fossil Fuel Stocks (Electric Power Sector)										
Fossil Fuel Stocks Mar-11 Mar-10 % Change Feb-11 % Change										
Coal (Thousand Short Tons)	166,825	177,763	-6.2%	161,705	3.2%					
Petroleum Liquids (Thousand Barrels)	Petroleum Liquids (Thousand Barrels) 34,487 38,143 -9.6% 35,176 -2.0%									

Notes:

- Coal consumption and generation includes subbituminous coal, bituminous coal, anthracite, lignite, and waste coal.

- Coal stocks include the coal categories listed immediately above, except for waste coal. The bituminous category includes anthracite.

- Petroleum Liquids consumption and generation includes distillate oil, residual oil, jet fuel, kerosene and waste oil.

- Petroleum Liquids stocks includes the oil categories listed immediately above, only waste oil is excluded.

- The "All Other" generation category includes biomass, solar, wind, geothermal, hydroelectric pumped storage, petroleum coke, other gases, and other miscellaneous energy sources.

Section 4. Net Generation Trends

Data for: March 2011

Table 4.1 Trends in Total Generation by Fuel (All Sectors) Millions of Kilowatthours

Year-to-Date Comparison											
Starting Month Ending Month Coal Petroleum Liquids Natural Gas Nuclear Hydroelectric Conventional All Other Total											
Current Period	January 2011	March 2011	444,117	4,258	203,049	203,193	81,466	54,875	990,958		
Prior Period	January 2010	March 2010	471,281	5,603	201,451	202,449	63,295	46,927	991,006		
Percent Difference			-5.8%	-24.0%	0.8%	0.4%	28.7%	16.9%	0.0%		

Comparison to Prior Twelve-Month Period

	Starting Month	Ending Month	Coal	Petroleum Liquids	Natural Gas	Nuclear	Hydroelectric Conventional	All Other	Total
Current Period	April 2010	March 2011	1,823,586	22,052	983,413	807,712	275,222	207,995	4,119,980
Prior Period	April 2009	March 2010	1,778,814	22,254	925,549	795,734	273,611	178,408	3,974,370
Percent Difference			2.5%	-0.9%	6.3%	1.5%	0.6%	16.6%	3.7%







Section 5. Fossil Fuel Consumption Trends

Table 5.1 Trends in Fossil Fuel Consumption For Electric Generation, Total (All Sectors)

Year-to-Date Comparison										
	Starting Month	Ending Month	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Natural Gas (Million Cubic Feet)					
Current Period	January 2011	March 2011	236,090	7,317	1,553,681					
Prior Period	January 2010	March 2010	247,317	9,726	1,534,757					
Percent Difference			-4.5%	-24.8%	1.2%					

Comparison to Prior 12 Month Period										
			-							
	Starting Month	Ending Month	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Natural Gas (Million Cubic Feet)					
Current Period	April 2010	March 2011	968,329	37,631	7,652,392					
Prior Period	April 2009	March 2010	945,115	37,531	7,162,041					
Percent Difference			2.5%	0.3%	6.8%					



Section 6. Fossil Fuel Stock Trends

Table 6.1 Trends in Total Fossil Fuel Stocks (Electric Power Sector)										
Fossil Fuel Stocks	Mar-11	Mar-10	% Change	Feb-11	% Change					
Coal, Total (Thousand Short Tons)	166,825	177,763	-6.2%	161,705	3.2%					
Bituminous (includes anthracite and coal synfuel)	77,731	86,660	-10.3%	75,895	2.4%					
Subbituminous	82,484	86,060	-4.2%	79,420	3.9%					
Lignite	6,610	5,043	31.1%	6,389	3.5%					
Petroleum Liquids (Thousand Barrels)	34,487	38,143	-9.6%	35,176	-2.0%					



Figure 6.2 Trend in Petroleum Liquids Stocks (Electric Power Sector): 2009, 2010, and 2011







Section 7. Average Number of Days of Burn Non-Lignite Coal

Data for: March 2011

Table 7.1 Average Number of Days of Burn Non-Lignite Coal by Region (Electric Power Sector)										
Zone	Mar-11	Mar-10	% Change	Feb-11	% Change					
Northeast	61	68	-10.6%	46	32.7%					
South	74	78	-6.0%	74	-1.1%					
Midwest	69	70	-2.7%	67	1.7%					
West	85	90	-5 1%	84	1.8%					

Table 7.2 Percent of Non-Lignite Coal Capacity (Net Summer MW) by Days of Burn (Electric Power Sector)						
		March 2011				
Zone	Less than 30 days	30 to 60 days	Greater than 60 days			
Northeast	12.3%	42.5%	45.1%			
South	4.7%	29.8%	65.6%			
Midwest	8.0%	34.3%	57.7%			
West	4.2%	13.6%	82.3%			
U.S. Total	6.5%	29.9%	63.7%			

Та	Table 7.3 Coal Stocks and Average Number of Days of Burn for Non-Lignite Coal by Region (Electric Power Sector)										
		Ma	r-11	Ma	r-10		Fel	b-11			
Zone	Coal	Stocks (000 tons)	Days of Burn	Stocks (000 tons)	Days of Burn	% Change of Stocks	Stocks (000 tons)	Days of Burn	% Change of Stocks		
Northeast	Bituminous	7,031	62	7,920	67	-11.2%	6,076	48	15.7%		
Nonneast	Subbituminous	568	52	1,038	77	-45.2%	385	23	47.5%		
South	Bituminous	44,006	78	48,373	81	-9.0%	42,735	79	3.0%		
South	Subbituminous	5,176	50	6,484	63	-20.2%	4,677	48	10.7%		
Midwost	Bituminous	15,484	67	18,126	75	-14.6%	16,143	69	-4.1%		
Widwest	Subbituminous	42,023	69	41,473	69	1.3%	40,949	67	2.6%		
West	Bituminous	7,079	118	7,874	127	-10.1%	6,742	116	5.0%		
west	Subbituminous	29,281	80	31,145	83	-6.0%	27,927	78	4.8%		
LLS Total	Bituminous	73,599	76	82,293	81	-10.6%	71,696	76	2.7%		
0.5. Total	Subbituminous	77,047	71	80,140	73	-3.9%	73,939	68	4.2%		





Retail Sales

Table 8.1 Retail Sales (Million kWh)									
Ultimate Customer	Mar-11	Mar-10	% Change	Feb-11	% Change				
Residential	105,503	112,151	-5.9%	121,729	-13.3%				
Commercial	103,788	101,603	2.2%	99,357	4.5%				
Industrial	81,662	77,726	5.1%	75,566	8.1%				
Transportation	628	657	-4.4%	650	-3.4%				
All Sectors	291,580	292,137	-0.2%	297,302	-1.9%				

Average Retail Price

Table 8.2 Average Retail Price (Cents/kWh) U.S. Total									
Ultimate Customer	Mar-11	Mar-10	% Change	Feb-11	% Change				
Residential	11.67	11.21	4.1%	11.20	4.2%				
Commercial	10.09	10.08	0.1%	10.11	-0.2%				
Industrial	6.57	6.51	0.9%	6.72	-2.2%				
Transportation	10.82	10.82	0.0%	10.85	-0.3%				
All Sectors	9.68	9.57	1.1%	9.70	-0.2%				

Table 8.3 Average Retail Price (Cents/kWh) by Census Division										
Census Division		Residential		All Sectors						
	Mar-11	Mar-10	% Change	Mar-11	Mar-10	% Change				
New England	15.96	16.87	-5.4%	14.45	15.21	-5.0%				
Middle Atlantic	15.44	15.18	1.7%	13.01	13.00	0.1%				
East North Central	11.54	10.89	6.0%	9.01	8.79	2.5%				
West North Central	9.49	8.73	8.7%	7.80	7.32	6.6%				
South Atlantic	11.27	10.79	4.4%	9.64	9.50	1.5%				
East South Central	10.17	9.02	12.7%	8.21	7.53	9.0%				
West South Central	10.61	10.54	0.7%	8.45	8.75	-3.4%				
Mountain	9.93	9.88	0.5%	8.07	8.08	-0.1%				
Pacific Contiguous	12.01	12.21	-1.6%	10.60	10.73	-1.2%				
Pacific Noncontiguous	25.11	22.67	10.8%	23.52	20.86	12.8%				
U.S. Total	11.67	11.21	4.1%	9.68	9.57	1.1%				

Section 9. Retail Sales Trends

Table 9.1	Trends in Total Retail Sales of Electricity (All Sectors)
	Millions of Kilowatthours

Year-to-Date Comparison									
	Starting Month	Ending Month	Residential	Commercial	Industrial	Transportation	Total (All Sectors)		
Current Period	January 2011	March 2011	373,662	311,052	236,162	1,975	922,851		
Prior Period	January 2010	March 2010	383,471	310,221	226,299	2,117	922,109		
Percent Difference			-2.6%	0.3%	4.4%	-6.7%	0.1%		

Comparison to Prior Twelve-Month Period									
	Starting Month	Ending Month	Residential	Commercial	Industrial	Transportation	Total (All Sectors)		
Current Period	April 2010	March 2011	1,440,949	1,330,153	972,027	7,597	3,750,727		
Prior Period	April 2009	March 2010	1,389,786	1,305,863	923,521	7,781	3,626,951		
Percent Difference			3.7%	1.9%	5.3%	-2.4%	3.4%		



Section 10. Average Retail Price Trends

Year-to-Date Comparison										
	Starting Manth	Ending Month	Residential	Commercial	Inductrial	Transportation	Total			
	Starting wonth	Ending Month	Residential	Commercial	Industrial	Transportation	(All Sectors)			
Current Period	January 2011	March 2011	11.25	10.02	6.67	10.72	9.66			
Prior Period	January 2010	March 2010	10.88	9.87	6.53	10.69	9.47			
Percent Difference			3.4%	1.5%	2.1%	0.3%	2.0%			

Comparison to Prior 12 Month Period									
	Starting Month	Ending Month	Residential	Commercial	Industrial	Transportation	Total (All Sectors)		
Current Period	April 2010	March 2011	11.68	10.29	6.82	10.97	9.93		
Prior Period	April 2009	March 2010	11.43	10.13	6.74	10.70	9.77		
Percent Difference			2.2%	1.6%	1.2%	2.5%	1.6%		





Data for: March 2011

Section 11. Heating and Cooling Degree Days

Data for: March 2011

Table	11.1	Degree	Days
-------	------	--------	------

			Heating De	egree Days		Cooling Degree Days			
	Month	Heating Degree Days	Normal Heating Degree Days	Deviation From Normal	Percent Difference From Normal	Cooling Normal Deviation Degree Cooling From D Days Degree Days Normal From			Percent Difference From Normal
Current Period	March 2011	586	593	-7	-1.2%	20	18	2	11.1%
Prior Period	March 2010	552	593	-41	-6.9%	7	18	-11	-61.1%
Percent Difference	e	6.2%				185.7%			



Section 12. Documentation

General: The Monthly Flash Estimates of Electric Power Data ("Flash Estimates") is prepared by the Electric Power Operations Team, Office of Electricity, Renewables and Uranium Statistics, U.S. Energy Information Administration (EIA), U.S. Department of Energy. Data published in the Flash Estimates are compiled from the following sources: U.S. Energy Information Administration, Form EIA-826, "Monthly Electric Utility Sales and Revenues with State Distributions Report," and U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

The survey data are collected monthly using multiple-attribute cutoff sampling of power plants and electric retailers for the purpose of estimation for various data elements (generation, stocks, revenue, etc.), for various categories, such as geographic regions. (The data elements and categories are "attributes.") The nominal sample sizes are: for the Form EIA-826, approximately 450 electric utilities and other energy service providers; for the Form EIA-923, approximately 1590 plants. Regression-based (i.e., "prediction") methodologies are used to estimate totals from the sample. Essentially complete samples are collected for the *Electric Power Monthly* (EPM), which includes State-level values. The Flash Estimates is based on an incomplete sample and includes only national-level estimates. Using 'prediction,' it is generally possible to make estimates based on the incomplete EPM sample, and still estimate variances.

For complete documentation on EIA monthly electric data collection and estimation, see the Technical Notes to the *Electric Power Monthly*, at: http://www.eia.gov/cneaf/electricity/epm/epm.pdf. Values displayed in the Flash Estimates may differ from values published in the *Electric Power Monthly* due to the additional data collection and data revisions that may occur between the releases of these two publications. This report represents the EIA's initial release for national level electricity data. Updated information will be released in the *Electric Power Monthly*.

Sector definitions: The Electric Power Sector comprises electricity-only and CHP plants within the North American Industrial Classification System 22 category whose primary business is to sell electricity, or electricity and heat, to the public (i.e., electric utility plants and Independent Power Producers (IPP), including IPP plants that operate as combined heat and power producers). The All Sectors totals include the Electric Power Sector and the Commercial and Industrial sectors (Commercial and Industrial power producers are primarily CHP plants).

Composition of fuel categories: See notes on page 3.

Degree Days: Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Heating degree-days are the number of degrees that the daily average temperature falls below 65 F. Cooling degree-days are the number of degrees that the daily average temperature rises above 65 F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, a weather station recording an average daily temperature of 40 F would report 25 heating degree-days for that day (and 0 cooling degree-days). If a weather station recorded an average daily temperature of 78 F, cooling degree-days for that station would be 13 (and 0 heating degree days).

Average Days of Burn: Average Days of Burn is defined as the average number of days remaining until coal stocks reach zero if no further deliveries of coal are made. These data have been calculated using only the population of coal plants present in the monthly Form EIA-923. This includes 1) coal plants that have generators with a primary fuel of bituminous coal (including anthracite) or subbituminous, and 2) are in the Electric Power Sector (as defined in the above "Sector definitions"). Excluded are plants with primary fuel of lignite and waste coal, mine mouth plants, and out of service plants. Coal storage terminals and the related plants that they serve are aggregated into one entity for the calculation of Average Days of Burn, as are plants that share stockpiles.

Average days of burn is computed as follows: End of month stocks for the current (data) month, divided by the average burn per day. Average burn per day is the average of the three previous years' consumption as reported on the Form EIA-923.

For lists of the plants included in the calculations, the plants that are excluded, and the plants that are aggregated with terminals, contact EIA at EIA923@eia.gov.

These data are displayed by coal rank and by zone. Each zone has been formed by combining the following Census Divisions:

"Northeast" -- New England, Middle Atlantic "South" -- South Atlantic, East South Central "Midwest" -- West North Central, East North Central "West" -- Mountain, West South Central, Pacific Contiguous

Coal Stocks: Section 6 vs. Section 7

The coal stocks data presented in Section 6 will differ from the coal stocks presented in Section 7. This occurs because coal stocks in Section 6 include the entire population of coal plants that report on both the annual and monthly Form EIA-923. The coal stocks reported in Section 7 only include coal plants that report on the monthly Form EIA-923 and have a primary fuel of bituminous (including anthracite) or subbituminous as reported on the Form EIA-860.