Monthly Flash Estimates of

Electric Power Data

Section 1. Commentary

The contiguous United States as a whole experienced temperatures that were above average in April 2010. This occurred because almost all States east of the Rocky Mountains experienced significantly above average temperatures. Accordingly, total population-weighted heating degree days for the United States were 21.4 percent below the average for the month of April.

Retail sales of electricity increased 0.9 percent compared to April 2009. Over the same period, the average U.S. retail price of electricity decreased 0.6 percent. For the 12-month period ending April 2010, the U.S. average retail price of electricity decreased by 1.6 percent over the previous 12-month period ending April 2009.

In April 2010, total electric power generation in the United States decreased 1.2 percent compared to April 2009 (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 increased 1.4 percent, while natural gas generation increased 5.0 percent. Petroleum liquids generation had the largest percentage decline, 25.4 percent from the previous year, as a result of the increased cost of petroleum liquids as a fuel used in electricity generation. April 2010 electricity generation from conventional hydroelectric sources decreased 24.3 percent compared to April 2009. This decrease in conventional hydroelectric generation occurred as a result of below average precipitation observed across almost all States east of the Mississippi River in April 2010.

Following the year-over-year increase in coal generation, the consumption of coal to produce electricity increased 0.5 percent when compared to April 2009. Over the same time period, petroleum liquids consumption decreased 24.6 percent, while natural gas consumption increased 5.8 percent.

Total coal stocks in the Electric Power Sector increased 6.4 percent from the previous month. The March 2010 to April 2010 change in coal stocks consisted of a 7.3-percent increase in bituminous coal and a 3.7-percent increase in subbituminous coal. Petroleum liquid stocks decreased 0.6 percent from March 2010.

References for weather data:

http://www.ncdc.noaa.gov/oa/climate/research/2010/apr/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.	Month-to-Month Comparisons: Electric Power Retail Sales and Average Prices	Page	7
8.	Retail Sales Trends	Page	8
9.	Average Retail Price Trends	Page	9
10.	Heating and Cooling Degree Days	Page 1	0
11.	Documentation	Page 1	11
			_

This report was prepared by the U.S. Energy Information Administration, the independent statistical and analytical agency within the U.S. Department of Energy. The information contained herein should be attributed to the U.S. Energy Information Administration and should not be construed as advocating or reflecting any policy the Department of Energy or any other organization. For additional information, contact Chris Cassar at 202-586-5448, or at Christopher.Cassar@eia.doe.gov.

Table 2.1 Key Generation Indicators										
	Total Generation	Nuclear Generation	Hydroelectric Generation							
Total Change From:										
March 2010	-8.1%	-10.9%	-6.5%							
April 2009	-1.2%	-3.0%	-24.3%							
Year to Date	1.6%	-1.9%	-7.3%							
Latest 12 Month Period*	-2.1%	-2.4%	2.1%							

Table 2.2 Key Consumption and Stocks Indicators

	Natural Gas Consumption	Coal Consumption	Coal Stocks
Total Change From:			
March 2010	5.3%	-12.0%	6.4%
April 2009	5.8%	0.5%	0.4%
Year to Date	3.9%	3.4%	
Latest 12 Month Period*	4.5%	-5.7%	
1			

Change in total consumption or generation for the latest 12 month period (May 2009 to April 2010) compared to the prior 12 month period (May 2008 to April 2009).

Net Generation (Total, All Sectors)

Table 3.1 Total Net Generation (All Sectors)											
Net Generation (thousand megawatthours) Apr-10 Apr-09 % Change Mar-10											
Coal	128,269	126,461	1.4%	145,198	-11.7%						
Petroleum Liquids	1,199	1,607	-25.4%	1,249	-4.0%						
Natural Gas	64,833	61,770	5.0%	62,882	3.1%						
Nuclear	57,611	59,408	-3.0%	64,639	-10.9%						
Hydroelectric Conventional	19,242	25,418	-24.3%	20,574	-6.5%						
All Other	15,533	15,458	0.5%	17,390	-10.7%						
Total (All Energy Sources)	286,687	290,120	-1.2%	311,933	-8.1%						

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 Apr-10 Apr-09 % Change Mar-10 % Change										
Coal (Thousand Short Tons)	67,667	67,328	0.5%	76,855	-12.0%					
Petroleum Liquids (Thousand Barrels) 1,994 2,646 -24.6% 2,142 -6.9%										
Natural Gas (Million Cubic Feet)										

Fossil Fuel Stocks (Electric Power Sector)

Table 3.3 Total Fossil Fuel Stocks (Electric Power Sector)									
Fossil Fuel Stocks Apr-10 Apr-09 % Change Mar-10 % Change									
Coal (Thousand Short Tons)	186,711	185,989	0.4%	175,432	6.4%				
Petroleum Liquids (Thousand Barrels) 37,482 40,633 -7.8% 37,724 -0.6%									

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 and coal synfuel.

- 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: April 2010

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 2010	April 2010	600,819	6,853	266,986	260,032	82,336	61,038	1,278,064				
Prior Period	January 2009	April 2009	576,699	10,716	258,173	264,979	88,825	58,491	1,257,883				
Percent Difference			4.2%	-36.0%	3.4%	-1.9%	-7.3%	4.4%	1.6%				

Comparison to Prior Twelve-Month Period

	Starting Month	Ending Month	Coal	Petroleum Liquids	Natural Gas	Nuclear	Hydroelectric Conventional	All Other	Total
Current Period	May 2009	April 2010	1,788,606	21,928	929,192	793,798	265,642	174,125	3,973,291
Prior Period	May 2008	April 2009	1,905,232	32,678	883,295	813,273	260,185	164,009	4,058,672
Percent Difference			-6.1%	-32.9%	5.2%	-2.4%	2.1%	6.2%	-2.1%

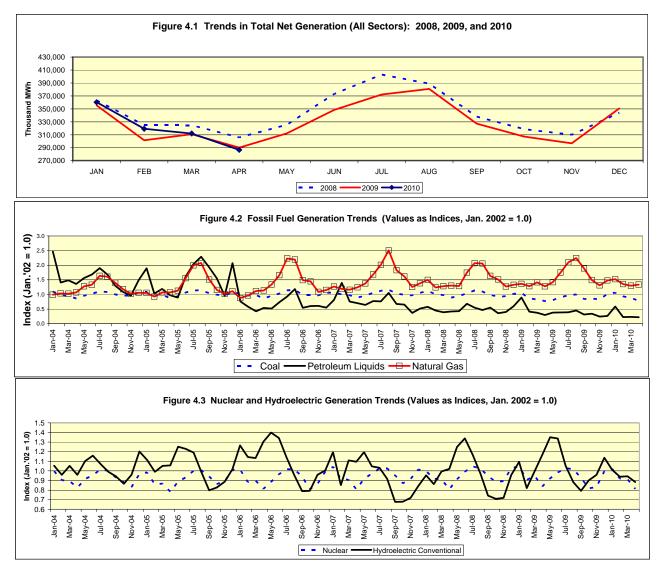
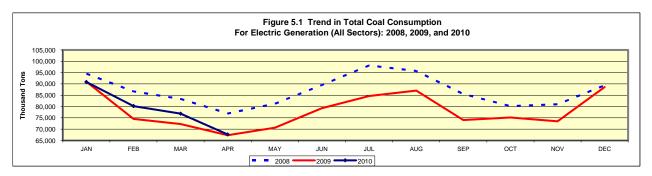
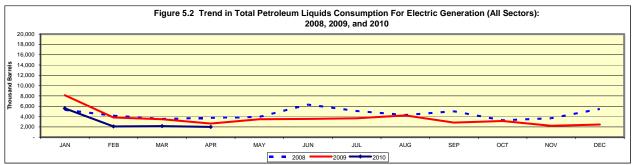


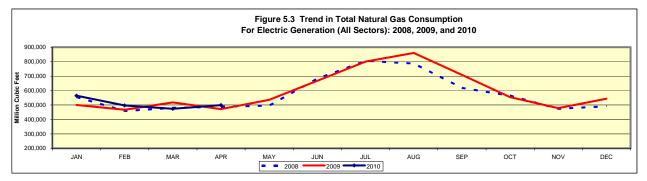
Table 5.1 Trends in Fossil Fuel Consumption For Electric Generation, Total (All Sectors)

Year-to-Date Comparison										
	Starting Month	Ending Month	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Natural Gas (Million Cubic Feet)					
Current Period	January 2010	April 2010	315,667	11,819	2,033,726					
Prior Period	January 2009	April 2009	305,188	18,105	1,957,116					
Percent Difference			3.4%	-34.7%	3.9%					

Comparison to Prior 12 Month Period										
	Starting Month	Ending Month	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Natural Gas (Million Cubic Feet)					
Current Period	May 2009	April 2010	948,538	37,386	7,181,209					
Prior Period	May 2008	April 2009	1,005,991	55,206	6,873,419					
Percent Difference			-5.7%	-32.3%	4.5%					

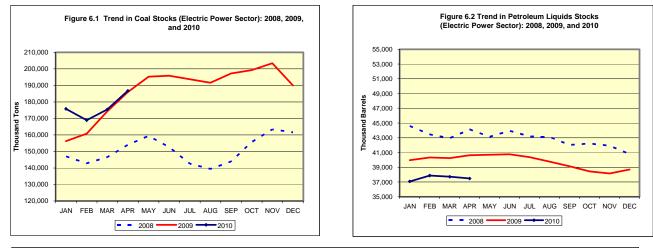


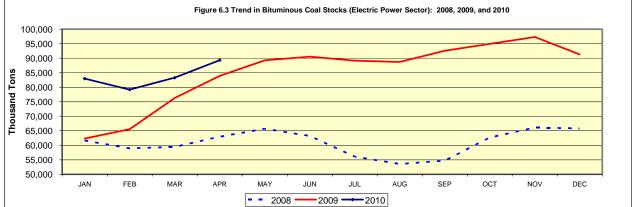


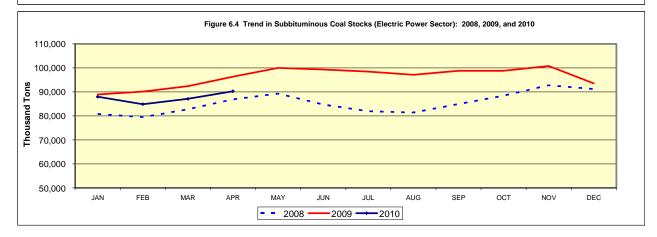


Section 6. Fossil Fuel Stock Trends

Table 6.1 Trends in Total Fossil Fuel Stocks (Electric Power Sector)										
Fossil Fuel Stocks	Apr-10	Apr-09	% Change	Mar-10	% Change					
Coal, Total (Thousand Short Tons)	186,711	185,989	0.4%	175,432	6.4%					
Bituminous (includes anthracite and coal synfuel)	89,330	83,900	6.5%	83,287	7.3%					
Subbituminous	90,284	96,306	-6.3%	87,097	3.7%					
Lignite	7,097	5,783	22.7%	5,049	40.6%					
Petroleum Liquids (Thousand Barrels)	37,482	40,633	-7.8%	37,724	-0.6%					







Section 7. Month-to-Month Comparisons: Electric Power Retail Sales and Average Prices

Retail Sales

Table 7.1 Retail Sales (Million kWh)												
Ultimate Customer	Apr-10	Apr-09	% Change	Mar-10	% Change							
Residential	88,128	91,395	-3.6%	112,057	-21.4%							
Commercial	101,486	101,302	0.2%	103,426	-1.9%							
Industrial	76,105	70,730	7.6%	75,905	0.3%							
Transportation	598	604	-1.0%	651	-8.1%							
All Sectors	266,318	264,032	0.9%	292,039	-8.8%							

Average Retail Price

Table 7.2 Average Retail Price (Cents/kWh) U.S. Total										
Ultimate Customer	Apr-10	Apr-09	% Change	Mar-10	% Change					
Residential	11.75	11.55	1.7%	11.20	4.9%					
Commercial	9.97	9.97	0.0%	10.03	-0.6%					
Industrial	6.57	6.73	-2.4%	6.50	1.1%					
Transportation	11.21	11.19	0.2%	11.17	0.4%					
All Sectors	9.59	9.65	-0.6%	9.56	0.3%					

Table 7.3 Average Retail Price (Cents/kWh) by Census Division											
Census Division		Residential			All Sectors						
	Apr-10	Apr-09	% Change	Apr-10	Apr-09	% Change					
New England	17.15	18.06	-5.0%	15.07	15.90	-5.2%					
Middle Atlantic	15.90	14.48	9.8%	13.12	12.48	5.1%					
East North Central	11.57	11.11	4.1%	8.83	8.82	0.1%					
West North Central	9.38	8.92	5.2%	7.33	7.26	1.0%					
South Atlantic	11.17	11.27	-0.9%	9.37	9.70	-3.4%					
East South Central	9.76	9.79	-0.3%	7.83	8.03	-2.5%					
West South Central	11.34	11.57	-2.0%	8.80	9.12	-3.5%					
Mountain	10.18	9.77	4.2%	8.24	7.96	3.5%					
Pacific Contiguous	11.84	11.55	2.5%	10.57	10.46	1.1%					
Pacific Noncontiguous	22.76	20.08	13.3%	20.70	17.40	19.0%					
U.S. Total	11.75	11.55	1.7%	9.59	9.65	-0.6%					

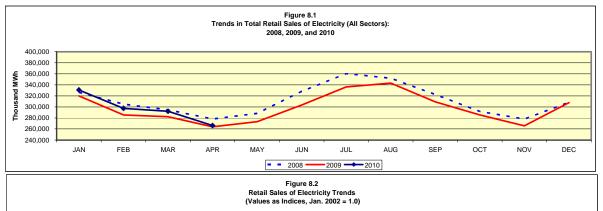
Section 8. Retail Sales Trends

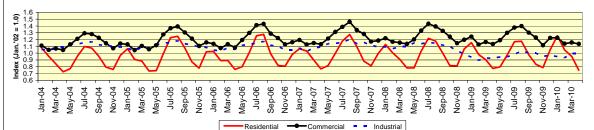
Table 8.1 Trends in Total Retail Sales of Electricity (All Sectors) Millions of Kilowatthours

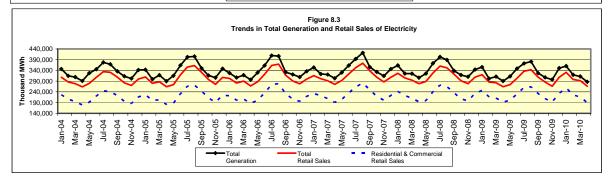
Year-to-Date Comparison										
	Starting Month	Ending Month	Residential	Commercial	Industrial	Transportation	Total (All Sectors)			
Current Period	January 2010	April 2010	471,364	416,452	296,014	2,674	1,186,505			
Prior Period	January 2009	April 2009	449,199	417,216	282,526	2,670	1,151,610			
Percent Difference			4.9%	-0.2%	4.8%	0.1%	3.0%			

Comparison to Prior Twelve-Month Period

	Starting Month	Ending Month	Residential	Commercial	Industrial	Transportation	Total (All Sectors)
Current Period	May 2009	April 2010	1,385,035	1,322,226	895,392	7,693	3,610,345
Prior Period	May 2008	April 2009	1,378,737	1,335,139	958,928	7,742	3,680,546
Percent Difference			0.5%	-1.0%	-6.6%	-0.6%	-1.9%





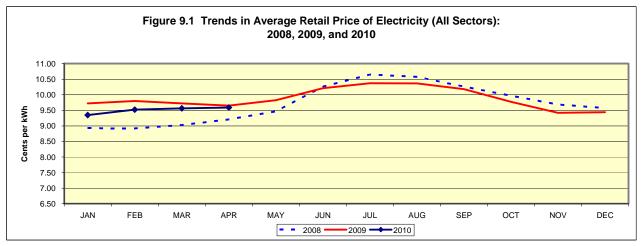


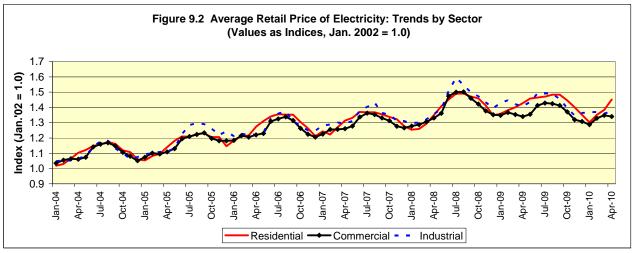
Section 9. Average Retail Price Trends

Table 9.1 Trends in Average Retail Price of Electricity (All Sectors) Cents per Kilowatthour

Year-to-Date Comparison										
	Starting Month	Ending Month	Residential	Commercial	Industrial	Transportation	Total (All Sectors)			
Current Period	January 2010	April 2010	11.03	9.86	6.54	10.99	9.50			
Prior Period	January 2009	April 2009	11.23	10.06	6.82	11.29	9.72			
Percent Difference			-1.8%	-2.0%	-4.1%	-2.7%	-2.3%			

Comparison to Prior 12 Month Period										
	Starting Month	Ending Month	Residential	Commercial	Industrial	Transportation	Total (All Sectors)			
Current Period	May 2009	April 2010	11.47	10.15	6.75	11.07	9.81			
Prior Period	May 2008	April 2009	11.54	10.49	7.00	11.21	9.97			
Percent Difference			-0.6%	-3.2%	-3.6%	-1.2%	-1.6%			





Section 10. Heating and Cooling Degree Days

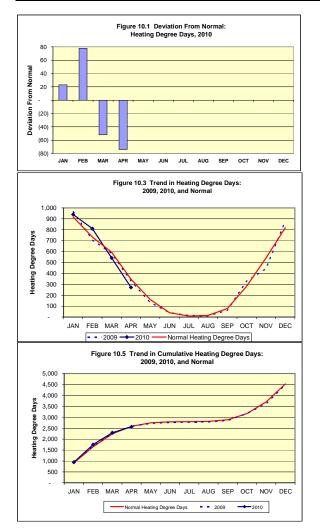
Data for: April 2010

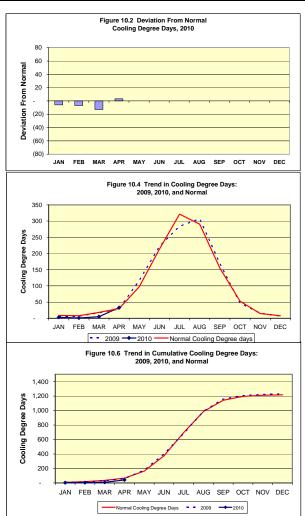
Table 10.1	Degree	Days
------------	--------	------

Heating Degree Days				Cooling Degree Days					
	Month	Heating Degree Days	Normal Heating Degree Days	Deviation From Normal	Percent Difference From Normal	Cooling Degree Days	Normal Cooling Degree Days	Deviation From Normal	Percent Difference From Normal
Current Period	April 2010	271	345	-74	-21.4%	33	30	3	10.0%
Prior Period	April 2009	330	345	-15	-4.3%	29	30	-1	-3.3%
Percent Difference		-17.9%				13.8%			

Table 10.2 Trends in Heating and Cooling Degree Days

Year-to-Date Comparison				Comparison to Prior 12 Month Period					
	Starting Month	Ending Month	Heating Degree Days	Cooling Degree Days		Starting Month	Ending Month	Heating Degree Days	Cooling Degree Days
Current Period	January 2010	April 2010	2,562	42	Current Period	May 2009	April 2010	4,468	1,211
Prior Period	January 2009	April 2009	2,587	60	Prior Period	May 2008	April 2009	4,512	1,271
Percent Difference			-1.0%	-30.0%	Percent Difference			-1.0%	-4.7%





Section 11. Documentation

General: The Monthly Flash Estimates of Electric Power Data ("Flash Estimates") is prepared by the Electric Power Division, Office of Coal, Nuclear, Electric and Alternate Fuels, U.S. Energy Information Administration (EIA), U.S. Department of Energy. Data published in the Flash Estimates are compiled from the following sources: Form EIA-826, "Monthly Electric Utility Sales and Revenues with State Distributions Report," and 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.doe.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 release 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).