Monthly Flash Estimates of

Electric Power Data

Data for: August 2005

Section 1. Commentary

The summer of 2005 continued to be unusually hot in August, with cooling degree days 37 percent higher than August 2004. Year-todate, cooling degree days were up 13.8 percent. The retail sales of electricity in August 2005 were driven primarily by higher cooling needs, and increased 10.0 percent from August 2004. Residential sector retail sales showed the greatest response to the hot weather -- up 16.2 percent from August 2004. The commercial sector was up 8.8 percent from August 2004. Average retail prices, at 8.65 cents per kilowatthour, increased 6.7 percent above the August 2004 level in response to the higher electricity demand and high fuel prices. Year-to-date total retail sales through August were up 3.1 percent from 2004, driven by the increase in the cooling load. Average retail prices for the rolling 12 months ending in August continue to run ahead of 2004 prices by 4.3 percent, with higher fuel prices the major factor.

Electricity generation increased 9.8 percent from the previous August, closely tracking growth in retail sales. The strong growth in sales and generation is reflected in the use of natural gas and petroleum liquids, the fuels typically used to meet incremental demand. Natural gas-fired generation increased 30.8 percent from July 2004, and petroleum-fired generation was up 33.6 percent. Year to date, natural gas consumption for power generation is up 9.7 percent, reflecting both demand growth and the continuing introduction of new gas-fired power plants.

Coal generation was up 5.0 percent in August 2005 compared to August 2004. August hydroelectric generation started a seasonal down trend, dropping 17.1 percent from July 2005. Year to date, however, hydro generation was up 5.5 percent, indicating easing of last year's drought conditions. Nuclear generation continued to lag its 2004 performance -- down 0.1 percent from August 2004 and down 2.5 percent year to date. The lower output from base-load nuclear plants, due to greater lost capacity than in 2004 from planned and unplanned maintenance, is another factor contributing to the increased use of natural gas and petroleum.

All through 2005 monthly coal inventories have been below their historical 2003 and 2004 monthly levels. The improvement seen in coal stocks in April and May of 2005 reversed as the Powder River Basin rail problems began in late May. Once again, coal stocks in August 2005 are off from August 2004, with a drop of 9.2 million tons, or 8.5 percent. (For more information on coal related issues visit http://www.eia.doe.gov/cneaf/coal/page/coalnews/coalmar.html.) In addition to the decline in coal stocks, normally stable oil inventories are down by 19.3 percent from August, reaching the lowest level of the year so far. It appears that high oil product prices are leading generators to burn down petroleum liquid inventories in lieu of making new purchases of oil. Petroleum inventories at power plants may bear watching as generators approach the winter.

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| his report v epartment | vas prepared by the Energy Information Administration, the independent statistical and analytical agency within the U.S. of Energy. The information contained herein should be attributed to the Energy Information Administration and should not | 6 | eia.doe.g |

Tł be construed as advocating or reflecting any policy of the Department of Energy or any other organization. For additional information, contact Orhan Yildiz at 202-287-1586, or at Orhan.Yildiz@eia.doe.gov.

| Table 2.1 Key Generation Indicators | | | | | | | | | |
|-------------------------------------|---------------------|-----------------------|-----------------------------|--|--|--|--|--|--|
| | Total Generation | Nuclear Generation | Hydroelectric Generation | | | | | | |
| Total Change From: | | | | | | | | | |
| July 2005 | 0.5% | 0.4% | -17.1% | | | | | | |
| August 2004 | 9.8% | -0.1% | -0.7% | | | | | | |
| Year to Date | 2.4% | -2.5% | 5.5% | | | | | | |
| Latest 12 Month Period* | 2.3% | -1.2% | 6.3% | | | | | | |
| | | | | | | | | | |

Table 2.2 Key Consumption and Stocks Indicators

| | Natural Gas Consumption | Coal Consumption | Coal Stocks |
|-------------------------|----------------------------|---------------------|-------------|
| Total Change From: | | | |
| July 2005 | 0.9% | 1.1% | -5.8% |
| August 2004 | 28.5% | 5.2% | -8.5% |
| | | | |
| Year to Date | 9.7% | 2.0% | n/a |
| Latest 12 Month Period* | 10.3% | 1.7% | n/a |

Change in total consumption or generation for the latest 12 month period (September 2004 to August 2005) compared to the prior 12 month period (September 2003 to August 2004).

Net Generation (Total, All Sectors)

| Table 3.1 Total Net Generation (All Sectors) | | | | | | | | | |
|--|---------|---------|----------|---------|----------|--|--|--|--|
| Net Generation (thousand megawatthours) | Aug-05 | Aug-04 | % Change | Jul-05 | % Change | | | | |
| Coal | 187,391 | 178,424 | 5.0% | 186,043 | 0.7% | | | | |
| Petroleum Liquids | 12,162 | 9,104 | 33.6% | 10,894 | 11.6% | | | | |
| Natural Gas | 100,424 | 76,750 | 30.8% | 96,494 | 4.1% | | | | |
| Nuclear | 70,963 | 71,064 | -0.1% | 70,703 | 0.4% | | | | |
| Hydroelectric Conventional | 21,572 | 21,730 | -0.7% | 26,037 | -17.1% | | | | |
| All Other | 10,861 | 10,235 | 6.1% | 11,130 | -2.4% | | | | |
| Total (All Energy Sources) | 403,373 | 367,307 | 9.8% | 401,301 | 0.5% | | | | |

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 | Aug-05 | Aug-04 | % Change | Jul-05 | % Change | | | | |
| Coal (Thousand Short Tons) | 98,342 | 93,452 | 5.2% | 97,275 | 1.1% | | | | |
| Petroleum Liquids (Thousand Barrels) | 20,781 | 15,745 | 32.0% | 18,643 | 11.5% | | | | |
| Natural Gas (Million Cubic Feet) | 846,922 | 658,880 | 28.5% | 839,420 | 0.9% | | | | |

Fossil Fuel Stocks (Electric Power Sector)

| Table 3.3 Total Fossil Fuel Stocks (Electric Power Sector) | | | | | | | | |
|--|--------|---------|----------|---------|----------|--|--|--|
| Fossil Fuel Stocks | Aug-05 | Aug-04 | % Change | Jul-05 | % Change | | | |
| Coal (Thousand Short Tons) | 99,527 | 108,714 | -8.5% | 105,601 | -5.8% | | | |
| Petroleum Liquids (Thousand Barrels) | 36,422 | 45,145 | -19.3% | 37,735 | -3.5% | | | |

Notes:

- Coal consumption and generation includes subbituminous coal, bituminous coal, anthracite, lignite, waste coal and synthetic coal (synfuel).

- Coal stocks includes the coal categories listed immediately above except for waste coal.

- 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, except waste oil is excluded from data collected for January 2004 and subsequently. Data prior to 2004 contains small quantities of waste oil.

- 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: August 2005

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

| Year-to-Date Comparison | n |
|-------------------------|---|
|-------------------------|---|

| | Starting Month | Ending Month | Coal | Petroleum Liquids | Natural Gas | Nuclear | Hydroelectric Conventional | All Other | Total |
|----------------|----------------|--------------|-----------|-------------------|-------------|---------|-------------------------------|-----------|-----------|
| Current Period | January 2005 | August 2005 | 1,342,037 | 64,018 | 528,830 | 519,232 | 192,448 | 85,385 | 2,731,950 |
| Prior Period | January 2004 | August 2004 | 1,322,133 | 72,907 | 477,431 | 532,536 | 182,434 | 80,802 | 2,668,243 |
| Percent Change | | | 1.5% | -12.2% | 10.8% | -2.5% | 5.5% | 5.7% | 2.4% |

Comparison to Prior 12 Month Period

| | Starting Month | Ending Month | Coal | Petroleum Liquids | Natural Gas | Nuclear | Hydroelectric Conventional | All Other | Total |
|----------------|----------------|--------------|-----------|-------------------|-------------|---------|-------------------------------|-----------|-----------|
| Current Period | September 2004 | August 2005 | 1,996,237 | 90,139 | 751,009 | 775,252 | 279,651 | 124,826 | 4,017,114 |
| Prior Period | September 2003 | August 2004 | 1,980,881 | 99,970 | 677,708 | 784,347 | 263,102 | 121,659 | 3,927,667 |
| Percent Change | | | 0.8% | -9.8% | 10.8% | -1.2% | 6.3% | 2.6% | 2.3% |



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 2005 | August 2005 | 699,531 | 109,574 | 4,508,750 | | | | |
| Prior Period | January 2004 | August 2004 | 686,115 | 125,362 | 4,109,551 | | | | |
| Percent Change | | | 2.0% | -12.6% | 9.7% | | | | |

| Comparison to Prior 12 Month Period | | | | | | | | | | | |
|-------------------------------------|----------------|--------------|-------------------------|---|-------------------------------------|--|--|--|--|--|--|
| | | | | | | | | | | | |
| | Starting Month | Ending Month | Coal (Thousand Tons) | Petroleum Liquids (Thousand Barrels) | Natural Gas (Million Cubic Feet) | | | | | | |
| Current Period | September 2004 | August 2005 | 1,042,980 | 154,458 | 6,419,534 | | | | | | |
| Prior Period | September 2003 | August 2004 | 1,025,237 | 171,065 | 5,820,349 | | | | | | |
| Percent Change | | | 1.7% | -9.7% | 10.3% | | | | | | |









Retail Sales

| Table 6.1 Retail Sales (Million Kwh) | | | | | | | | | | |
|--------------------------------------|---------|---------|----------|---------|----------|--|--|--|--|--|
| Ultimate Customer | Aug-05 | Aug-04 | % Change | Jul-05 | % Change | | | | | |
| Residential | 147,292 | 126,724 | 16.2% | 144,754 | 1.8% | | | | | |
| Commercial | 124,654 | 114,569 | 8.8% | 122,565 | 1.7% | | | | | |
| Industrial | 92,057 | 89,703 | 2.6% | 89,917 | 2.4% | | | | | |
| Transportation | 680 | 662 | 2.7% | 694 | -2.0% | | | | | |
| All Sectors | 364,683 | 331,658 | 10.0% | 357,929 | 1.9% | | | | | |

Average Retail Price

| Table 6.2 Average Retail Price (Cents/kWh) | | | | | | | | |
|--|------|------|-------|------|------|--|--|--|
| Ultimate Customer Aug-05 Aug-04 % Change Jul-05 % Change | | | | | | | | |
| Residential | 9.90 | 9.47 | 4.5% | 9.73 | 1.7% | | | |
| Commercial | 9.10 | 8.67 | 5.0% | 8.97 | 1.4% | | | |
| Industrial | 6.04 | 5.49 | 10.0% | 5.96 | 1.3% | | | |
| Transportation | 8.30 | 6.81 | 21.9% | 8.12 | 2.2% | | | |
| All Sectors | 8.65 | 8.11 | 6.7% | 8.52 | 1.5% | | | |

Section 7. Retail Sales Trends

Table 7.1 Trends in Total Retail Sales of Electricity (All Sectors) Millions of Kilowatthours

| Year-to-Date Comparison | | | | | | | | |
|-------------------------|----------------|-------------|-------------|------------|------------|----------------|----------------------------|--|
| | Starting Month | Ending | Residential | Commercial | Industrial | Transportation | Total | |
| Current Period | January 2005 | August 2005 | 919,640 | 849,325 | 689,839 | 5,481 | (All Sectors) 2,464,285 | |
| Prior Period | January 2004 | August 2004 | 884,036 | 820,020 | 680,193 | 5,110 | 2,389,359 | |
| Percent Change | | | 4.0% | 3.6% | 1.4% | 7.3% | 3.1% | |

| Comparison to Prior 12 Month Period | | | | | | | | |
|-------------------------------------|----------------|-----------------|-------------|------------|------------|----------------|------------------------|--|
| | Starting Month | Ending Month | Residential | Commercial | Industrial | Transportation | Total (All Sectors) | |
| Current Period | September 2004 | August 2005 | 1,329,053 | 1,257,811 | 1,030,529 | 8,045 | 3,625,438 | |
| Prior Period | September 2003 | August 2004 | 1,286,933 | 1,217,927 | 1,017,711 | 7,388 | 3,529,960 | |
| Percent Change | | | 3.3% | 3.3% | 1.3% | 8.9% | 2.7% | |







Section 8. Average Retail Price Trends

Table 8.1 Trends in Average Retail Price of Electricity (All Sectors) Cents Per Kilowatthours

| Year-to-Date Comparison | | | | | | | |
|-------------------------|----------------|-----------------|-------------|------------|------------|----------------|------------------------|
| | | 1 | | | | | |
| | Starting Month | Ending Month | Residential | Commercial | Industrial | Transportation | Total (All Sectors) |
| Current Period | January 2005 | August 2005 | 9.30 | 8.51 | 5.47 | 7.42 | 7.95 |
| Prior Period | January 2004 | August 2004 | 8.91 | 8.17 | 5.12 | 6.43 | 7.57 |
| Percent Change | | | 4.4% | 4.2% | 6.8% | 15.4% | 5.0% |

| Comparison to Prior 12 Month Period | | | | | | | | |
|---|----------------|-------------|------|------|------|------|------|--|
| Starting Month Ending Residential Commercial Industrial Transportation (All Sectors | | | | | | | | |
| Current Period | September 2004 | August 2005 | 9.21 | 8.40 | 5.34 | 7.16 | 7.82 | |
| Prior Period | September 2003 | August 2004 | 8.85 | 8.08 | 5.10 | 6.73 | 7.50 | |
| Percent Change | | | 4.1% | 4.0% | 4.7% | 6.4% | 4.3% | |





Section 9. Heating and Cooling Degree Days

Table 9.1 Degree Days

| Heating Degree Days | | | | | Cooling Degree Days | | | |
|---------------------|-------------|------------------------|----------------------------------|------------------------------|------------------------|----------------------------------|------------------------------|--|
| | Month | Heating Degree Days | Normal Heating Degree Days | Deviation From the Normal | Cooling Degree Days | Normal Cooling Degree Days | Deviation From the Normal | |
| Current Period | August 2005 | 4 | 15 | -11 | 348 | 290 | 58 | |
| Previous Period | August 2004 | 16 | 15 | 1 | 254 | 290 | -36 | |
| Percent Change | | -75.0% | | | 37.0% | | | |

Table 9.2 Trends in Heating and Cooling Degree Days

| Year-to-Date Comparison | | | | | | | | |
|-------------------------|----------------|--------------|------------------------|------------------------|--|--|--|--|
| | Starting Month | Ending Month | Heating Degree Days | Cooling Degree Days | | | | |
| Current Period | January 2005 | August 2005 | 2,645 | 1,125 | | | | |
| Prior Period | January 2004 | August 2004 | 2,669 | 989 | | | | |
| Percent Change | | | -0.9% | 13.8% | | | | |

| Comparison to Prior 12 Month Period | | | | | | | | |
|-------------------------------------|----------------|--------------|------------------------|------------------------|--|--|--|--|
| | | | | | | | | |
| | Starting Month | Ending Month | Heating Degree Days | Cooling Degree Days | | | | |
| Current Period | September 2004 | August 2005 | 4,200 | 1,395 | | | | |
| Prior Period | September 2003 | August 2004 | 4,230 | 1,236 | | | | |
| Percent Change | | | -0.7% | 12.9% | | | | |









Section 10. 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, 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," Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

The survey data is collected monthly from a statistically-derived sample of power plants and electricity retailers. The nominal sample sizes are: for the Form EIA-826, approximately 450 electric utilities and other energy service providers; for the Form EIA-920, approximately 300 combined heat and power (CHP) plants; and for the Form EIA-906, approximately 1,440 non-CHP plants. With the exception of stocks, a regression-based method is used to estimate totals from the sample. Essentially complete samples are collected for the *Electric Power Monthly*, which includes State-level values. The *Flash Estimates* is based on an incomplete sample and includes only national-level estimates. Stocks data for out-of-sample plants and any monthly non-respondents are estimated by bringing forward the last reported value for a plant.

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 independent rounding. 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).