Tuesday September 18, 2018  Note: this will be the final report of the series

**Weather:** Post-tropical cyclone Florence is producing rain over many Mid-Atlantic and New England states. Expected rainfall is 1 to 2 inches with some areas receiving up to 4 inches through Tuesday. Some flooding continues in portions of the Carolinas. **Electricity:** Loads in the Carolinas region began returning to pre-hurricane levels on Monday, particularly for DUK and SCEG, while today’s forecasts indicate continued recovery, especially for CPLE. SCEG’s reported load for yesterday returned to pre-hurricane levels faster than originally forecast.

**Generators:** As load recovers, the generation mix is also returning to pre-hurricane patterns. The Brunswick nuclear plant remains offline, and the McGuire nuclear plant remains at 50% outage for maintenance. **Customers:** As of 9:30 a.m., about 339,400 customers in North Carolina, 3,000 customers in South Carolina, and 6,500 customers in Virginia have reported electricity outages, roughly 6.6%, 0.1%, and 0.2% of the customers in the states, respectively. Outage numbers are falling across the region as restoration is underway.

**REGIONAL OVERVIEW**

North & South Carolina region electricity load
current day actual vs. forecast
megawatts

North & South Carolina region electricity load
current day vs. past 4 days
megawatts

**WEATHER PROJECTIONS**

**Precipitation**
6 hr period ending Tue Sep 18 at 2 pm EDT

**Wave Height**
feet for Tue Sep 18 at 2 pm EDT

**Wind Speed & Direction**
knots (1 knot = 1.15 mph) for Tue Sep 18 at 2 pm EDT

Send questions or comments about this report to infoelectric@eia.gov.
Daily snapshot of nuclear plant availability
percent of total plant capacity

**North Carolina**

- Total plant capacity: Brunswick (1,870 MW)
- Harris (932 MW)
- McGuire (2,316 MW)

**South Carolina**

- Total plant capacity: Catawba (2,310 MW)
- H B Robinson (741 MW)
- Oconee (2,554 MW)
- V C Summer (971 MW)

Data through Sep 16, 2018 6 am

Source: EIA
EIA Hurricane Florence Electricity Status Report
Tracking the electricity impact of Hurricane Florence on the Southeastern region of the United States

DUKE ENERGY PROGRESS EAST (CPLE)
Current electricity load data through hour ending 7 am

Duke Energy Progress East (CPLE) Electricity load, actual vs. forecast
megawatts

Wilmington, North Carolina
Hourly average temperature
degrees Fahrenheit

Duke Energy Progress East (CPLE) electricity load, 2018 vs. past two years
megawatts (previous years aligned by week number & day of week to 2018 data)

Duke Energy Progress East (CPLE) net generation by energy source
megawatts

Duke Energy Progress East (CPLE) & Duke Energy Progress West (CPLE) Balancing Authorities’ Combined Total Customers
2,302,785 customers, 44% of all customers in North Carolina
179,577 customers, 7% of all customers in South Carolina
1,017 customers in Tennessee

Wilmington, North Carolina weather
wind & gust speed (mph)
1 hr precipitation (inches)

Source: Duke Energy
Source: EIA
Source: NOAA
DUKE ENERGY CAROLINAS (DUK)

EIA Hurricane Florence Electricity Status Report
Tracking the electricity impact of Hurricane Florence on the Southeastern region of the United States

Duke Energy Carolinas (DUK)

Duke Energy Carolinas (DUK) electricity load, actual vs. forecast
megawatts
25,000
20,000
15,000
10,000
5,000
0
Thu Fri Sat Sun Mon Tue Wed Thu
Forecast
Actual
Average

Charlotte, North Carolina
Hourly average temperature
degrees Fahrenheit

Duke Energy Carolinas (DUK) electricity load, 2018 vs. past two years
megawatts (previous years aligned by week number & day of week to 2018 data)
25,000
20,000
15,000
10,000
5,000
0
Thu Fri Sat Sun Mon Tue Wed Thu
2016
2017
2018

Duke Energy Carolinas (DUK) net generation by energy source
megawatts
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Thu Fri Sat Sun Mon Tue Wed Thu
Other
Solar
Wind
Hydro
Oil
Nuclear
Natural Gas
Coal

Charlotte, North Carolina weather
wind & gust speed (mph)
1 hr precipitation (inches)

Source: DOE
Source: EIA
Source: NOAA

Duke Energy Carolinas (DUK) Balancing Authority
Total Customers
2,639,107 customers, 51% of all customers in North Carolina
940,763 customers, 36% of all customers in South Carolina
394 customers in Georgia

Source: EIA
DUKE ENERGY PROGRESS WEST (CPLW)

Duke Energy Progress West (CPLW) electricity load, actual vs. forecast

Asheville, North Carolina
Hourly average temperature
degrees Fahrenheit

Forecast
Actual
Average
Temp

Duke Energy Progress West (CPLW) electricity load, 2018 vs. past two years
megawatts (previous years aligned by week number & day of week to 2018 data)

Duke Energy Progress West (CPLW) net generation by energy source
megawatts

Duke Energy Progress East (CPLE) & Duke Energy Progress West (CPLE)
Balancing Authorities’ Combined Total Customers
2,302,785 customers, 44% of all customers in North Carolina
179,577 customers, 7% of all customers in South Carolina
1,017 customers in Tennessee

Source: Duke Energy

Source: EIA

Asheville, North Carolina weather
wind & gust speed (mph)

1 hr precipitation (inches)

Source: NOAA
EIA Hurricane Florence Electricity Status Report
Tracking the electricity impact of Hurricane Florence on the Southeastern region of the United States

SOUTH CAROLINA ELECTRIC & GAS (SCEG)
Current electricity load data through hour ending 7 am

South Carolina Electric & Gas Co (SCEG) Net Generation by Energy Source
megawatts

South Carolina Electric & Gas Co (SCEG) Electricity Load, actual vs. forecast
megawatts

South Carolina Electric & Gas Co (SCEG) electricity load, 2018 vs. past two years
megawatts (previous years aligned by week number & day of week to 2018 data)

South Carolina Electric & Gas Co (SCEG) net generation by energy source
megawatts

Charleston, South Carolina weather
Wind & gust speed (mph)
1 hr precipitation (inches)

South Carolina Electric & Gas & Gas (SCEG) Balancing Authority Total Customers
746,512 customers, 28% of all customers in South Carolina

Source: SCEG

Source: EIA

Source: NOAA
Santee Cooper (SC) electricity load, actual vs. forecast

Myrtle Beach, South Carolina
Hourly average temperature
degrees Fahrenheit

Santee Cooper (SC) electricity load, 2018 vs. past two years
megawatts (previous years aligned by week number & day of week to 2018 data)

Santee Cooper (SC) net generation by energy source
megawatts

Myrtle Beach, South Carolina weather

Source: SCEMD

Source: NOAA

Tracking the electricity impact of Hurricane Florence on the Southeastern region of the United States

Santee Cooper (SC)
Balancing Authority
Total Customers
766,021 customers, 29% of all customers in South Carolina
• Hourly electricity load, load forecast, and generation by energy source: EIA-930 data. Note that information submitted by reporting entities (balancing authorities) is preliminary data and made available "as-is" by EIA. Neither EIA nor reporting entities are responsible for reliance on the data for any specific use. See the EIA-930 user guide for more information about the EIA-930 data collection.

Balancing authorities are responsible for assuring in real-time that electricity supply and demand are balanced within a specified geographical footprint. An electric utility that functions as a balancing authority will likely have an area of responsibility that extends beyond its service territory, providing grid balancing services to other electric power companies. For example, the Duke Energy Progress East (CPLE) balancing authority in North Carolina is responsible for balancing the grid in an area that extends beyond the Duke utility service territory.

Below are direct links to EIA-930 webpages (with select data series) or excel files (with all data series and a full history) for the balancing authorities highlighted in this report:

• Duke Energy Carolinas (DUK): website, Excel file (includes generation by energy source)
• Duke Energy Progress East (CPLE): website, Excel file (includes generation by energy source)
• Duke Energy Progress West (CPLW): website, Excel file (includes generation by energy source)
• Santee Cooper/South Carolina Public Service Authority (SC): website, Excel file (includes generation by energy source)
• South Carolina Electric & Gas Company (SCEG): website, Excel file (includes generation by energy source)

• Weather data: NOAA data for the cities and locations listed below:
  • Wilmington, NC: Wilmington International Airport
  • Morehead City, NC: Cherry Point Marine Corps Air Station
  • Charlotte, NC: Gastonia Municipal Airport
  • Asheville, NC: Asheville Regional Airport
  • Charleston, SC: Charleston Executive Airport
  • Myrtle Beach, SC: Conway Horry County Airport

• Nuclear plant outages: Nuclear Regulatory Commission, displayed on EIA’s Status of U.S. Nuclear Outages. The NRC updates its reactor status information once each morning on business days. The NRC information is supplemented as necessary by press reports.

• Number of customer outages: North Carolina Department of Public Safety, poweroutage.us, and utility websites. A “customer” typically represents one metered location. The number of customers is not equivalent to the number of persons without power. Customers include all types of power purchasers but are primarily residences. The outage estimates presented in the commentary section of this report are a snapshot in time. Outage numbers can change rapidly as weather conditions deteriorate or improve and repairs are effectuated.