EIA Hurricane Florence Electricity Status Report

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

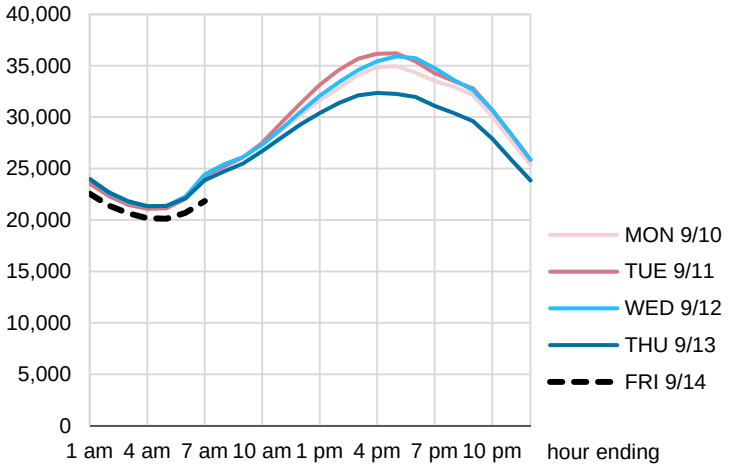
Friday September 14, 2018 – AM Edition

- **Weather:** At 7:15 a.m. this morning, the center of the Category 1 Hurricane Florence made landfall east of Wilmington, North Carolina. Florence is moving west at a slow 6 miles per hour (mph) and is expected to remain fairly close to the coast today. Estimated maximum winds are 90 mph.
- **Electricity:** Electricity loads in the Carolinas' coastal balancing authority areas (Santee Cooper (SC), South Carolina Electric & Gas (SCEG), and Duke Energy Progress East (CPLE)) have decreased substantially over the past two days.
- **Generators:** The Brunswick nuclear plant located just south of Wilmington on the North Carolina coast shut down yesterday in preparation for hurricane-force winds.
- **Customers:** As of 9:30 a.m. about 485,000 customers in North Carolina and 32,600 customers in South Carolina have reported electricity outages, roughly 10% and 1% of the customers in the states, respectively.

REGIONAL OVERVIEW

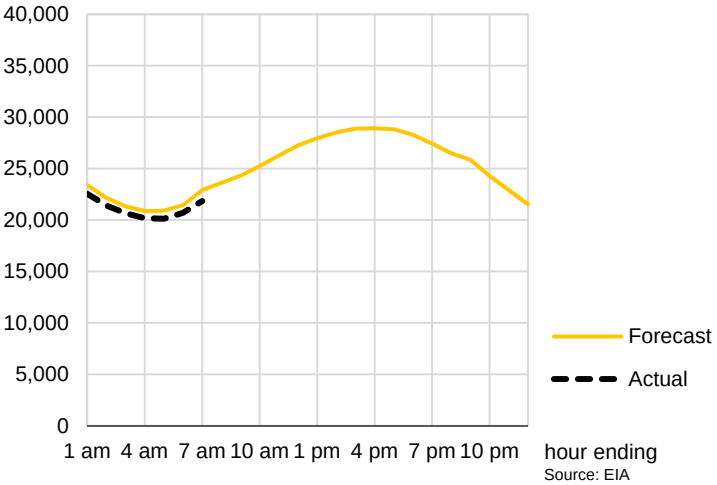
North & South Carolina region electricity load current day vs. past 4 days

megawatts



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

megawatts



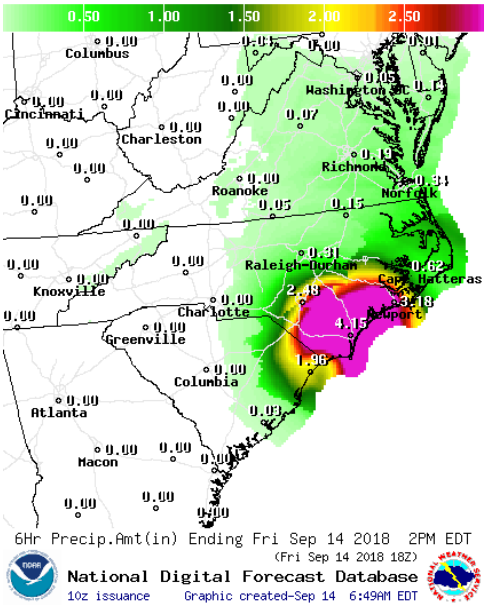
Source: EIA

WEATHER PROJECTIONS

Precipitation

inches

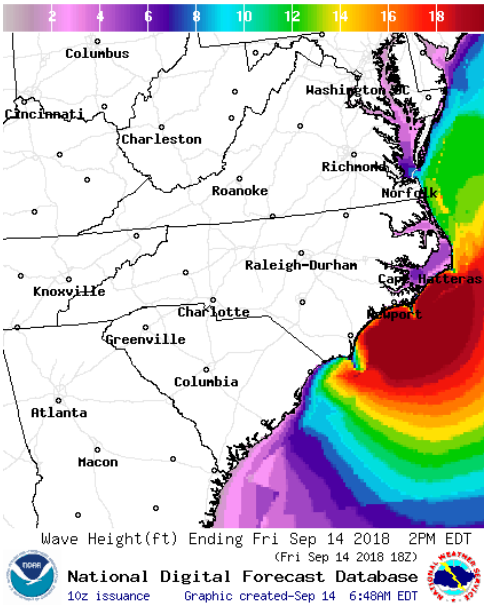
6 hr period ending Fri Sep 14 at 2 pm EDT



Wave Height

feet

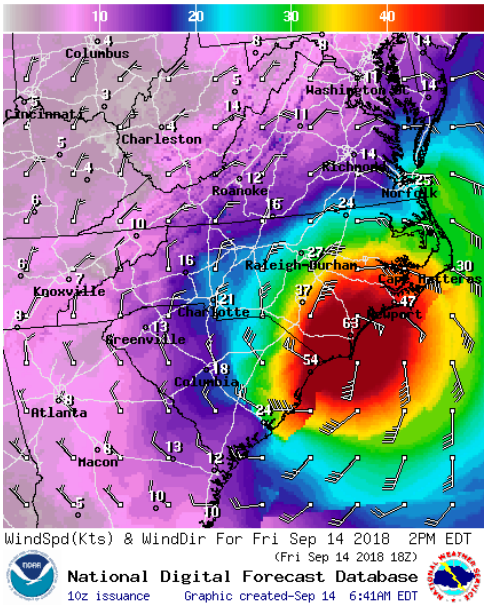
for Fri Sep 14 at 2 pm EDT



Wind Speed & Direction

knots (1 knot = 1.15 mph)

for Fri Sep 14 at 2 pm EDT



Source: NOAA

Send questions or comments about this report to infoelectric@eia.gov.

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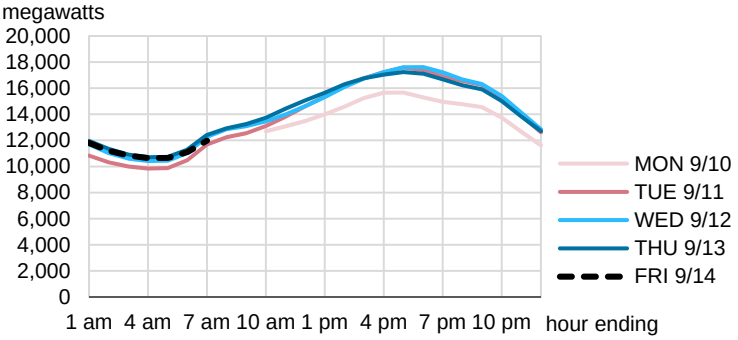
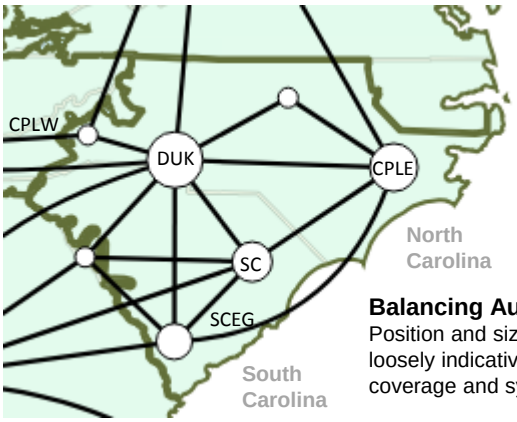
BALANCING AUTHORITY OVERVEW

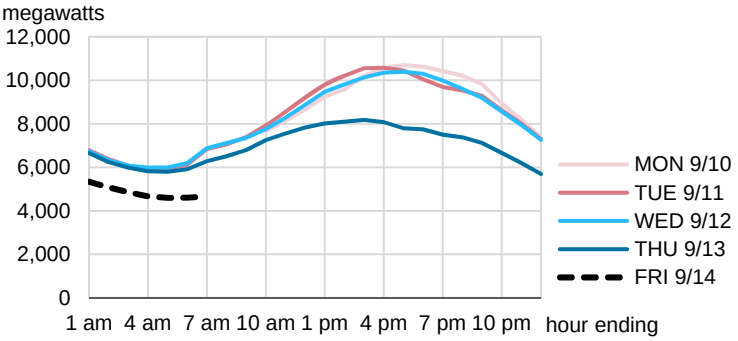
Duke Energy Carolinas (DUK) electricity load



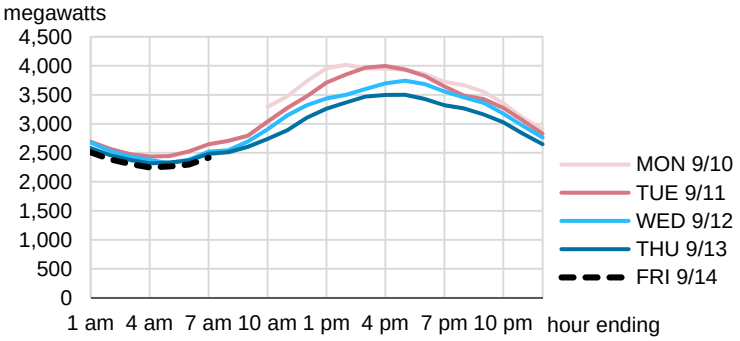


Balancing Authorities
Position and size of circles are loosely indicative of geographic coverage and system size

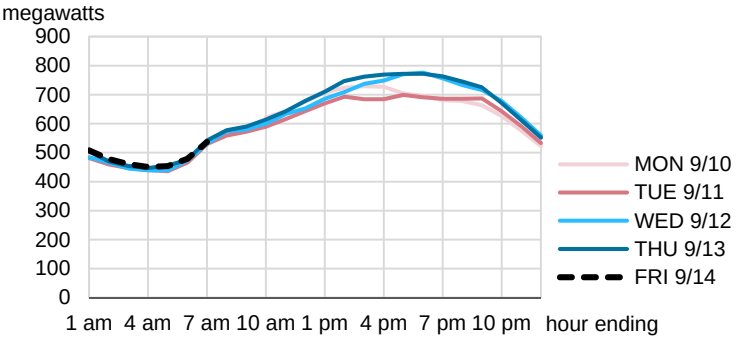
Duke Energy Progress East (CPLE) electricity load



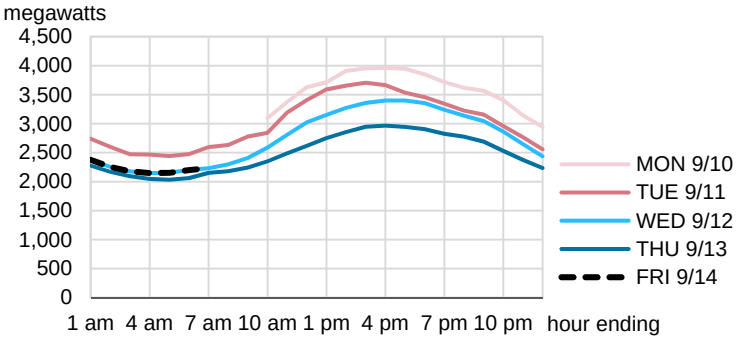
South Carolina Electric & Gas Co (SCEG) electricity load



Duke Energy Progress West (CPLW) electricity load

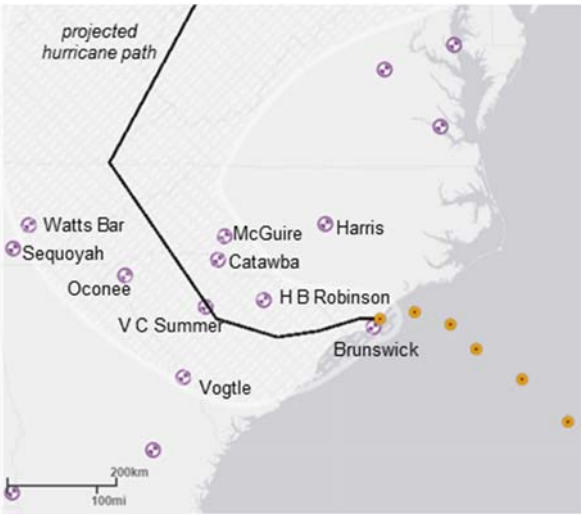


Santee Cooper/SC Public Service Auth. (SC) electricity load



Source: EIA

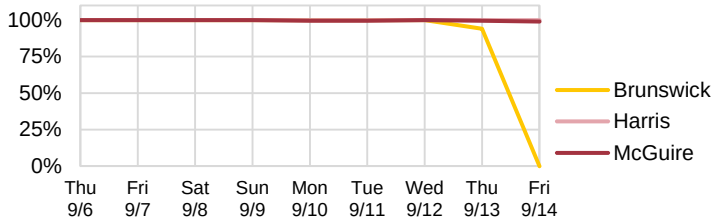
NUCLEAR PLANTS & AVAILABILITY



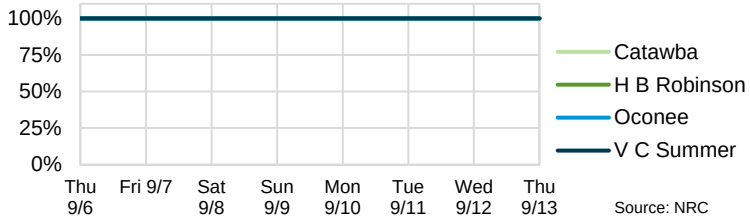
Daily snapshot of nuclear plant availability

percent of total plant capacity

North Carolina



South Carolina



Source: NRC

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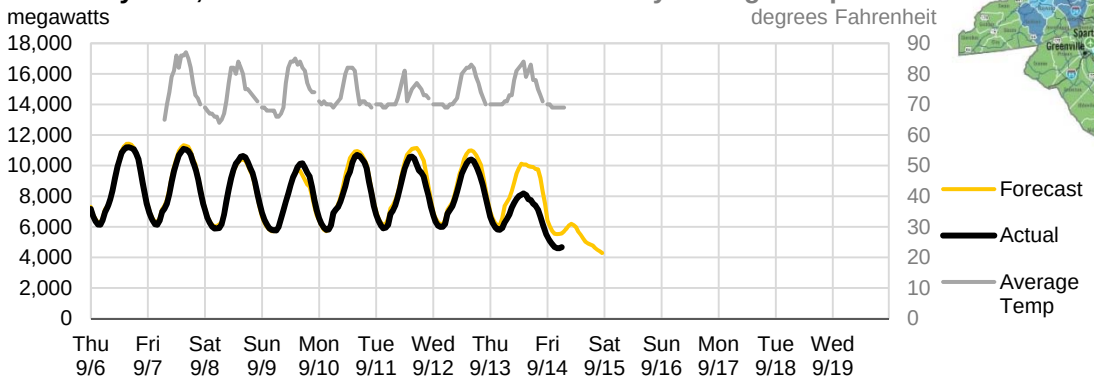
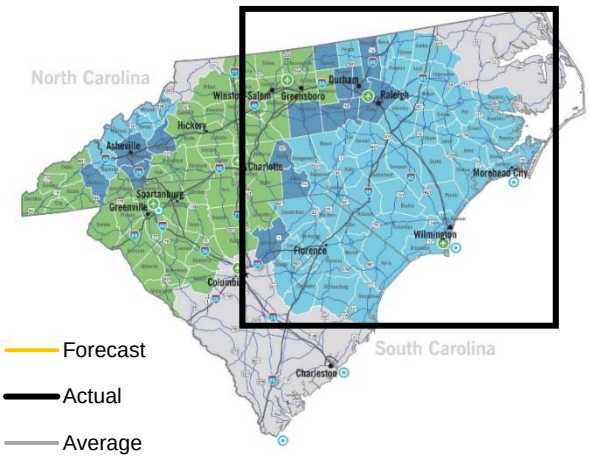
DUKE ENERGY PROGRESS EAST (CPLE)

Current electricity load data through hour ending 7 am

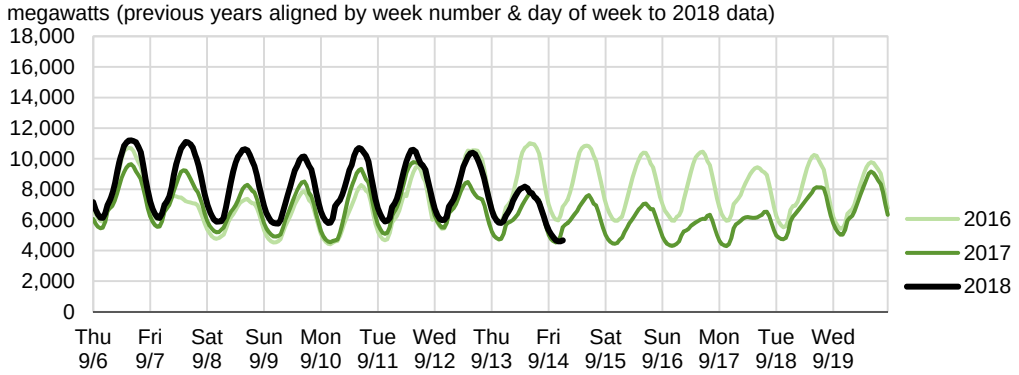
Duke Energy Progress East (CPLE) Electricity load, actual vs. forecast

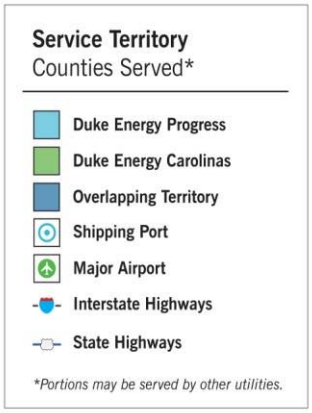




Duke Energy Progress East (CPLE) electricity load, 2018 vs. past two years

megawatts (previous years aligned by week number & day of week to 2018 data)

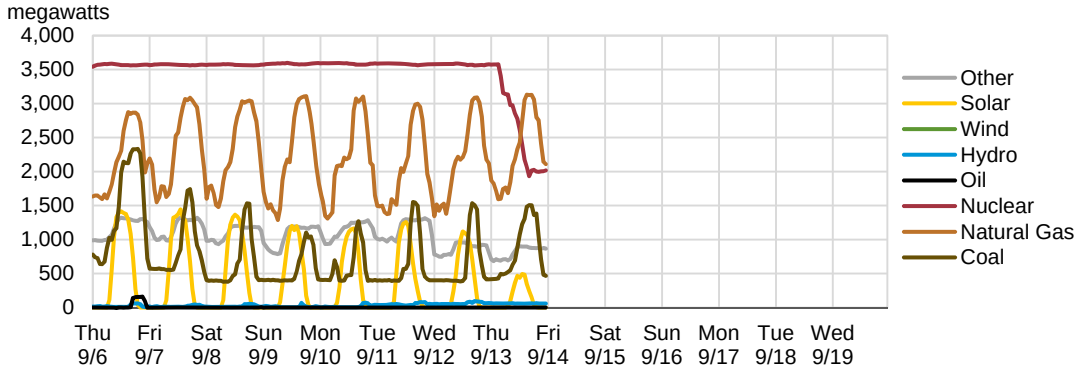




Source: Duke Energy

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

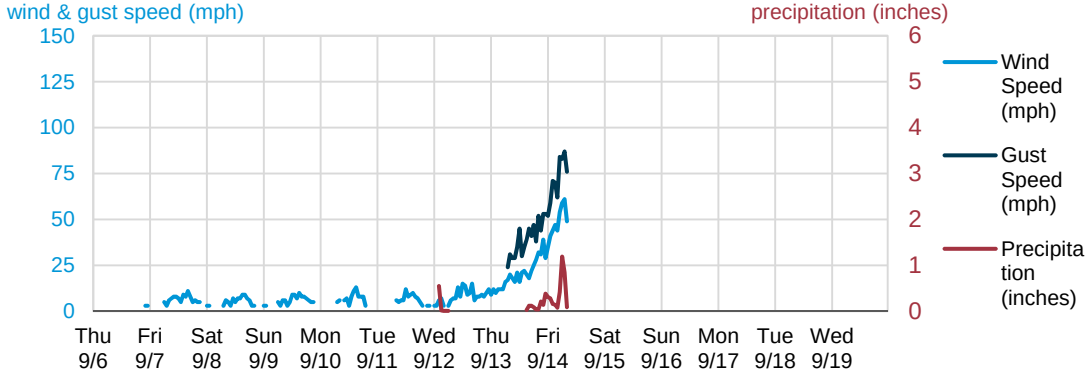
megawatts



Source: EIA

Wilmington, North Carolina weather

wind & gust speed (mph) — precipitation (inches)



Source: NOAA

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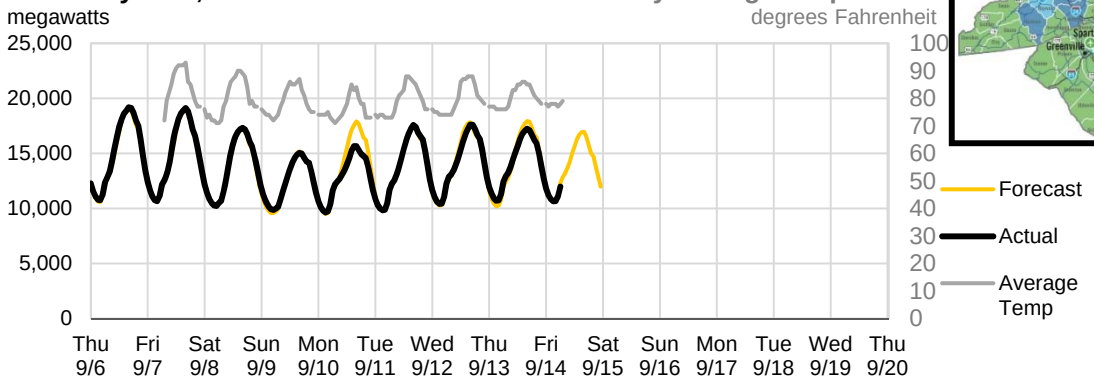
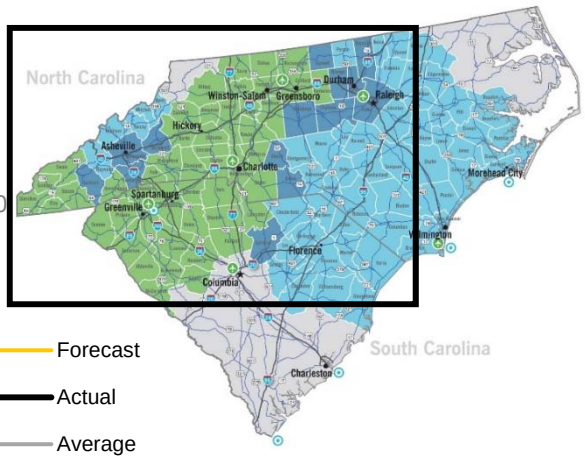
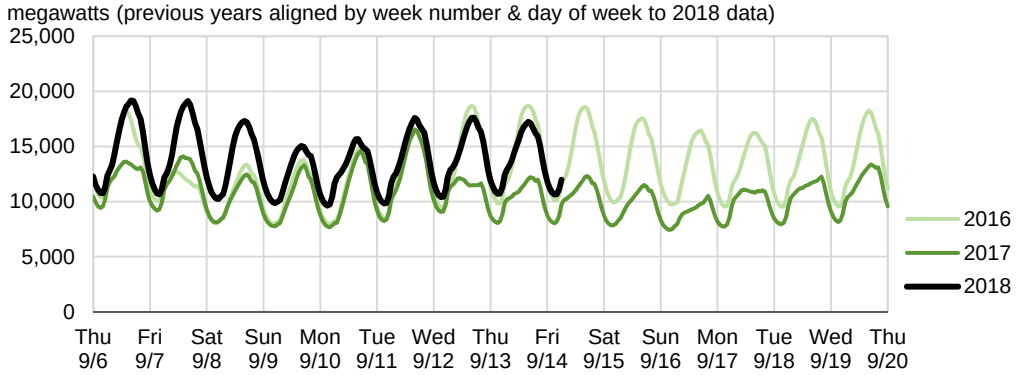
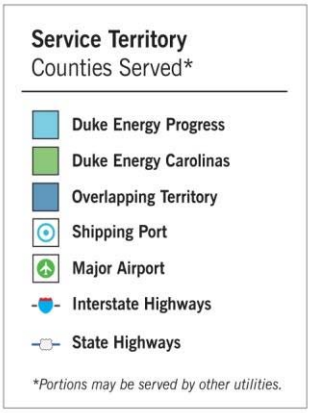




Duke Energy Carolinas (DUK) electricity load, 2018 vs. past two years

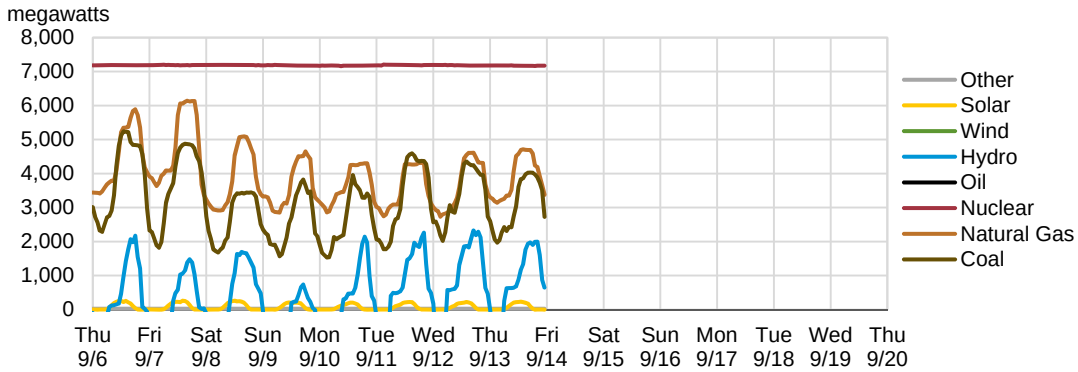
megawatts (previous years aligned by week number & day of week to 2018 data)





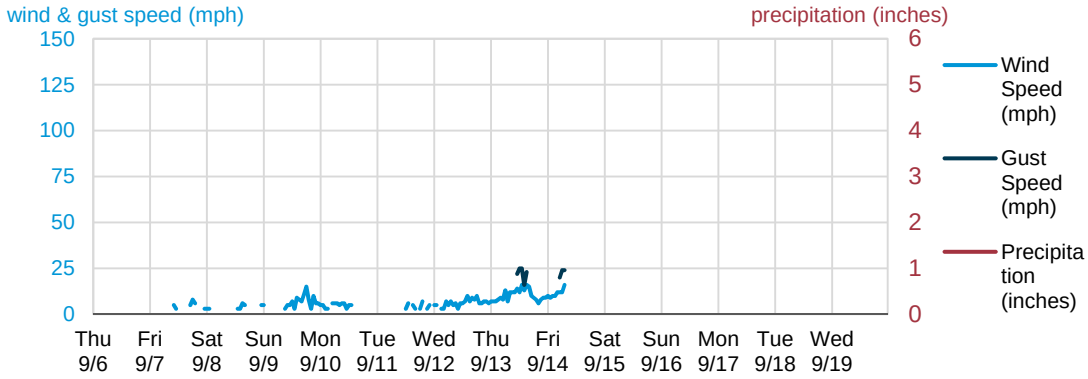
Source: Duke Energy

Duke Energy Carolinas (DUK) net generation by energy source



Source: EIA

Charlotte, North Carolina weather



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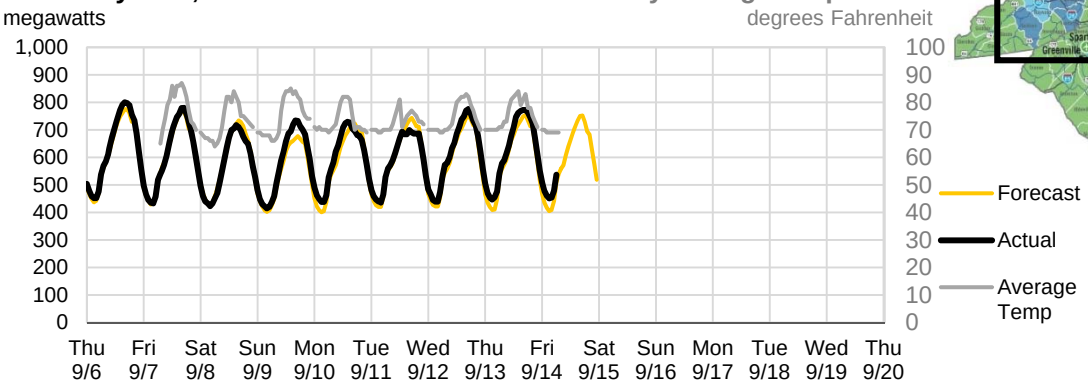
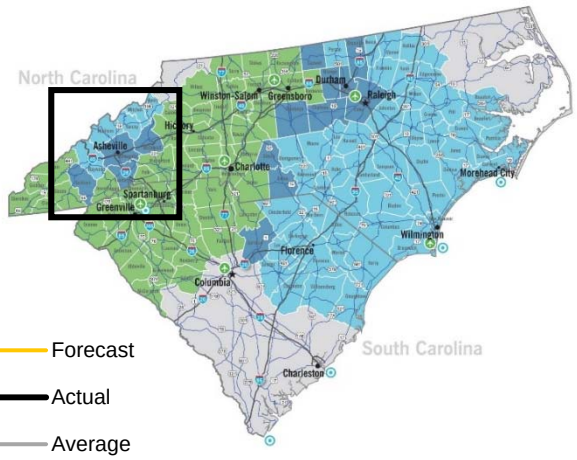
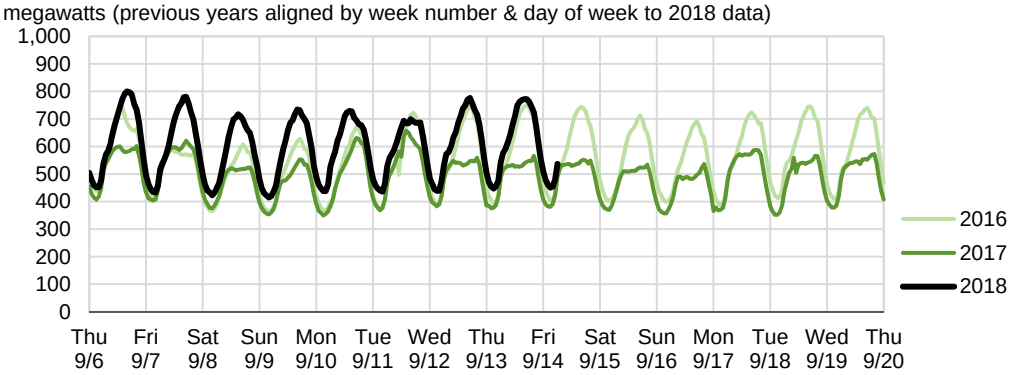
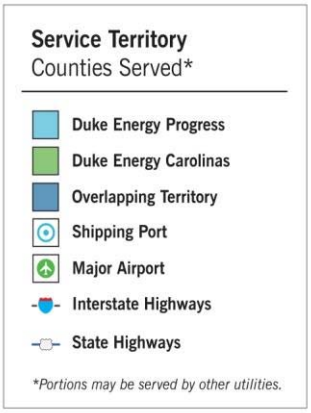




Duke Energy Progress West (CPLW) electricity load, 2018 vs. past two years

megawatts (previous years aligned by week number & day of week to 2018 data)

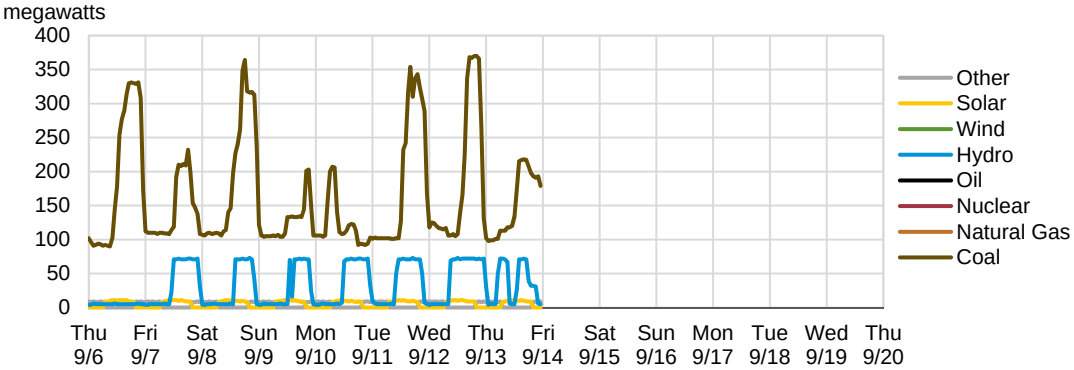




Source: Duke Energy

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

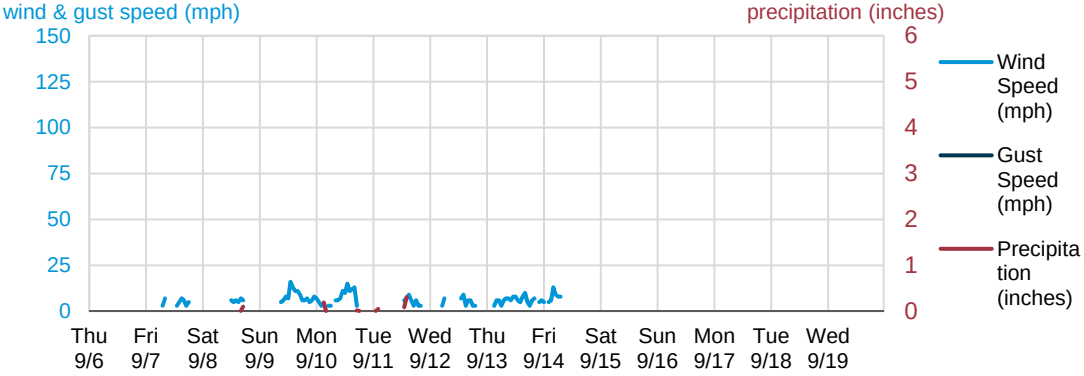
megawatts



Source: EIA

Asheville, North Carolina weather

wind & gust speed (mph) precipitation (inches)



Source: NOAA

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SOUTH CAROLINA ELECTRIC & GAS (SCEG)

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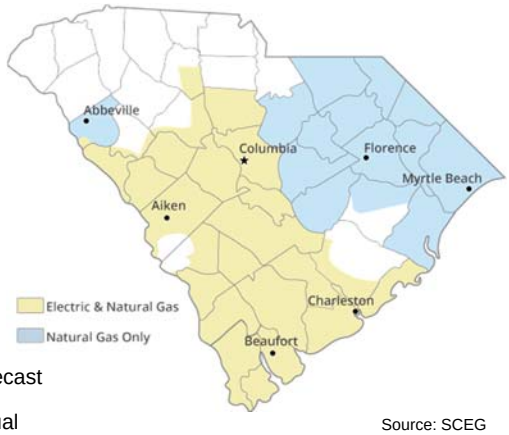
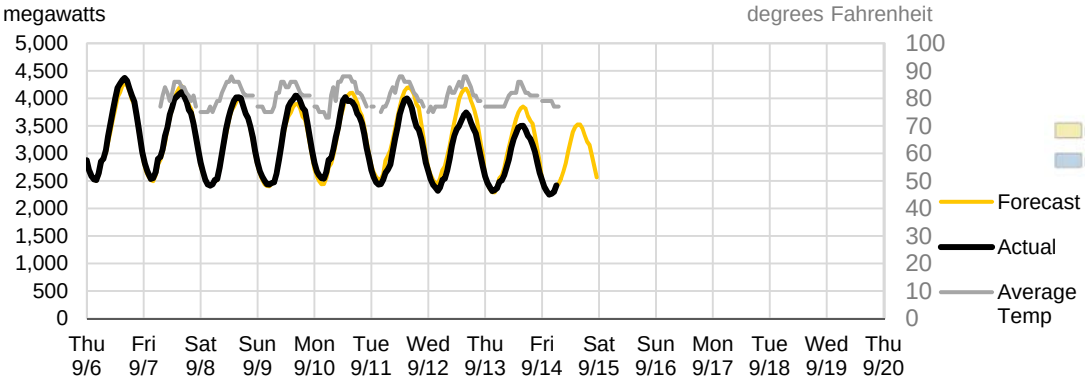
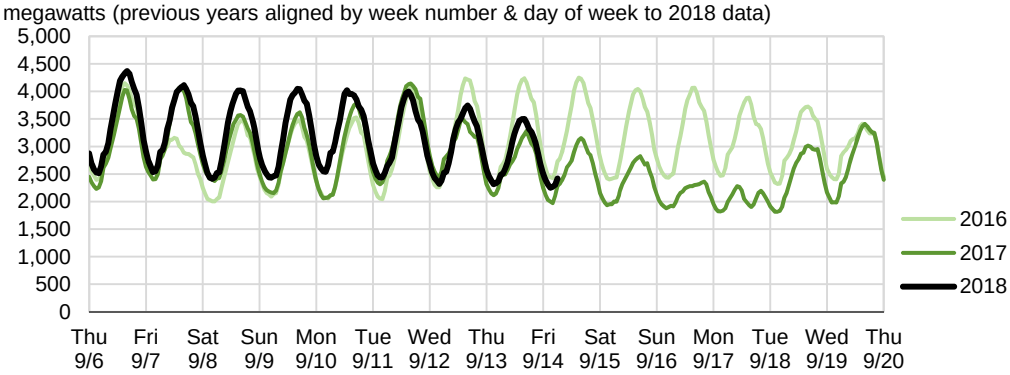


Source: SCEG

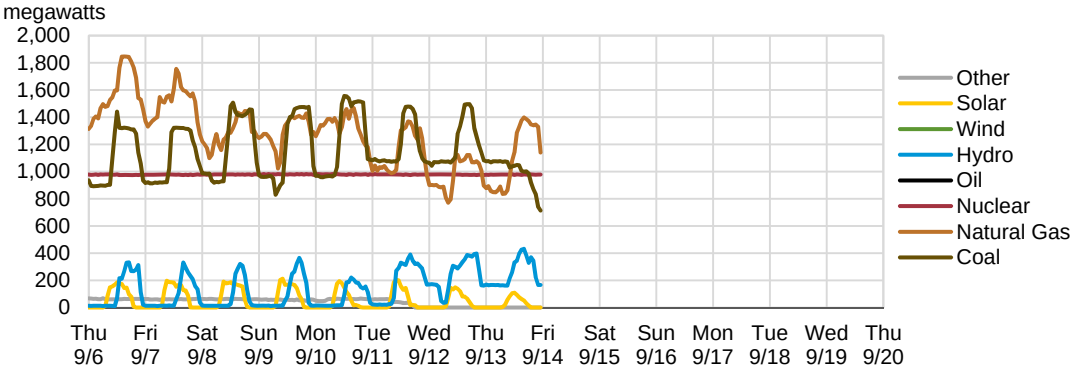
South Carolina Electric & Gas Co (SCEG) Electricity load, actual vs. forecast



South Carolina Electric & Gas Co (SCEG) electricity load, 2018 vs. past two years

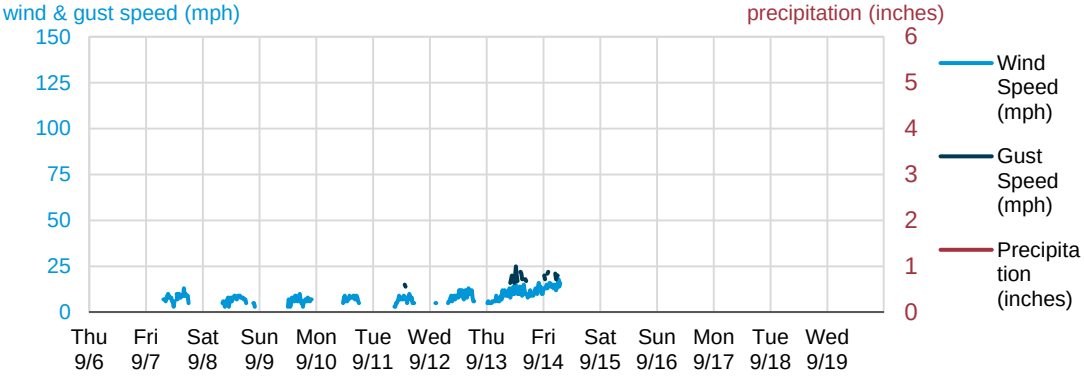


South Carolina Electric & Gas Co (SCEG) net generation by energy source



Source: EIA

Charleston, South Carolina weather



Source: NOAA

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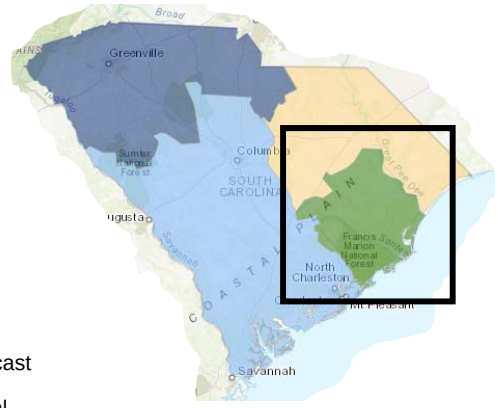
SANTEE COOPER/SC PUBLIC SERVICE AUTHORITY (SC)

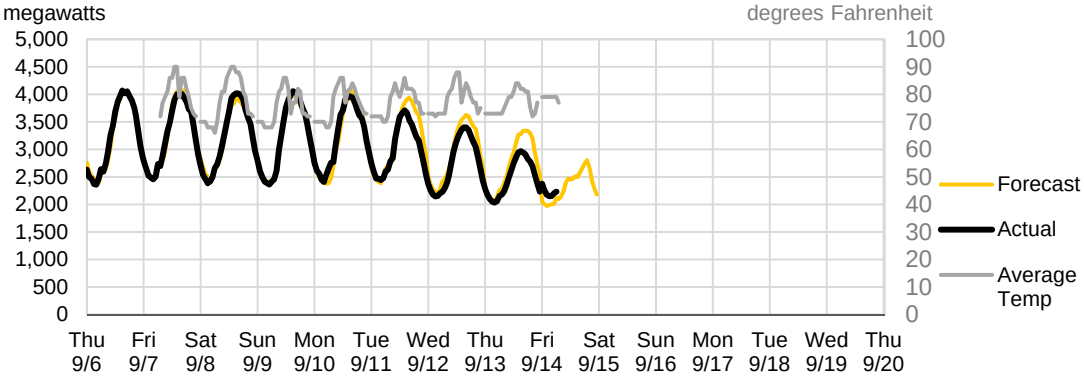
Current electricity load data through hour ending 7 am



Source: SCEMD

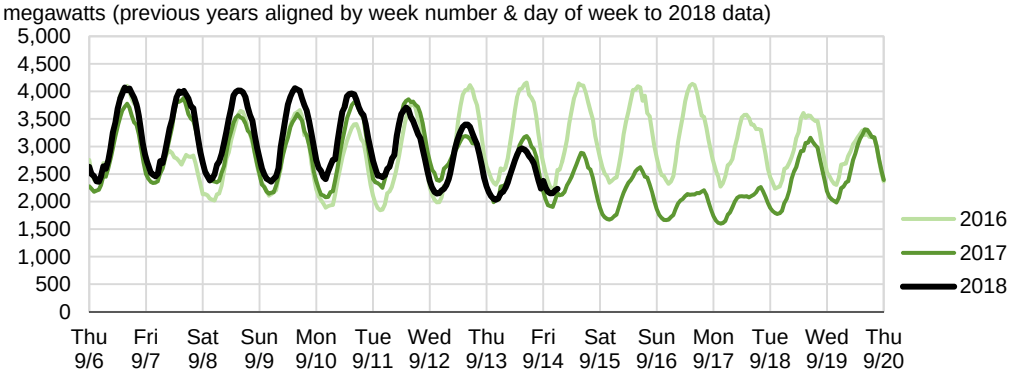
Santee Cooper (SC)
Electricity load, actual vs. forecast

Hourly average temperature



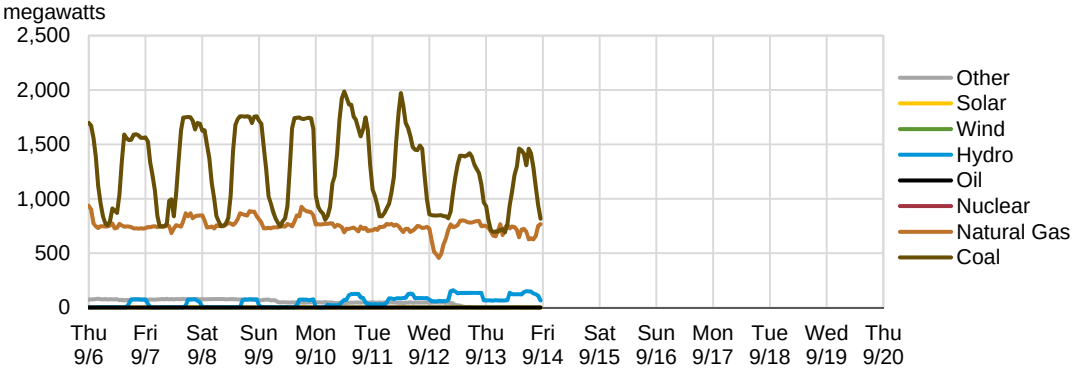
Santee Cooper (SC) electricity load, 2018 vs. past two years

megawatts (previous years aligned by week number & day of week to 2018 data)



Santee Cooper (SC) net generation by energy source

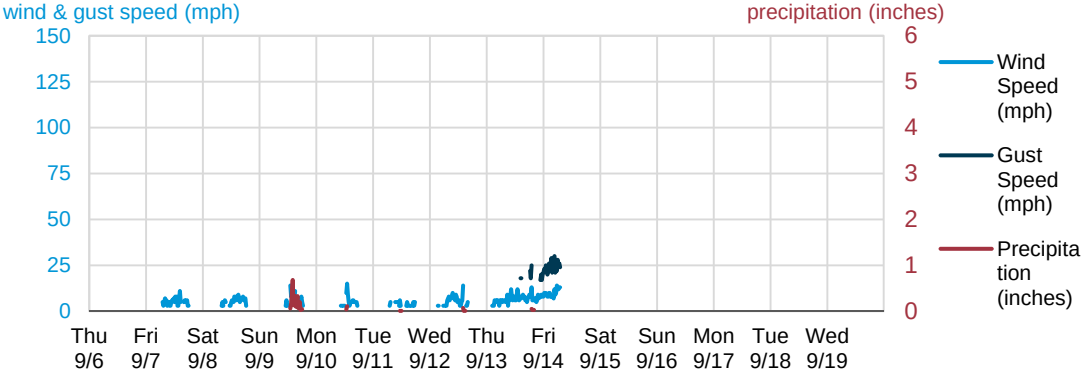
megawatts



Source: EIA

Conway, South Carolina weather

wind & gust speed (mph) | precipitation (inches)



Source: NOAA