



Hurricane Matthew Situation Report October 13, 2016 12:00pm

The final Situation Report for Hurricane Matthew will be issued on Friday, October 14, 2016.

OVERVIEW

Following Hurricane Matthew, significant flooding continues across eastern North Carolina, with flood warnings in effect for most of the region. River flooding will continue in portions of North and South Carolina throughout the week. Flooding has impeded restoration efforts in hard-hit, especially around Lumberton, North Carolina.

IMPACTS AND PREPARATIONS FOR HURRICANE MATTHEW

ELECTRICITY:

- Restoration efforts from Hurricane Matthew across the southeastern U.S. Atlantic coastline continue and significant progress has been made over the past few days. Flooding resulting from levy and dam breaches hindered restoration efforts in portions of North Carolina. Restoration crews are being rerouted from areas that have seen near complete restoration to areas that are still impacted. A large percentage of customers have already had power restored, especially in Florida, Georgia, and Virginia. Restoration continues in the Carolinas. Many service areas will be completely restored by the end of the week, although restoration will take longer for customers in areas with significant flooding, namely Eastern North Carolina. Mutual assistance agreements are working well and utility crews have arrived from other parts of the country, as well as Canada to assist in the restoration.

Electricity Outages as of 11:00 AM EDT 10/13/2016			
Impacted State	Current Confirmed Customer Outages	Percent of Confirmed State Customers without Power	24-hr Peak Customer Outages
Florida	16,241	<1%	47,675
Georgia	9,482	<1%	36,296
South Carolina	91,247	4%	177,315
North Carolina	46,260	<1%	111,886
Virginia	1,034	<1%	6,497
Total	164,264		*

*There is no sum of the Peak Customer Outage column because peaks for individual utilities occur at different times; a total would not reflect peak outages.



- Florida
 - As of 11:00 AM EDT, October 13, the State of Florida has 16,241 customer outages. This represents <1% of customers in the state.
 - As of 11:00 AM EDT, October 13, Florida Power and Light Company (FPL) has 3,547 customer outages.
 - As of 11:00 AM EDT, October 13, Jacksonville Electric Authority has 11,890 customer outages.
 - As of 11:00 AM EDT, October 13, Duke Energy has 539 customer outages.
 - FPL is the third-largest electric utility in the United States, serving more than 4.8 million customer accounts or more than 10 million people across nearly half of the state of Florida.
 - FPL has released restoration crews from service as restoration requests are decreasing and FPL crews are now assisting in other impacted states.
 - Jacksonville Electric Authority (JEA) was in one of the hardest hit areas of Florida. The utility has 29 electric crews including contractors in the field working to restore power following Hurricane Matthew. An additional 43 Mutual Aid crews from Electric Cities of Georgia, TECO (Tampa), CPS Energy (San Antonio), and a number of Missouri municipal utilities are providing assistance. As FPL completes their restoration work south of Jacksonville, they are providing additional assistance to JEA with approximately 150 utility workers and vegetation support.
 - JEA is reporting that tree devastation is causing the restoration process to take longer than expected. JEA is receiving assistance from utilities in Florida and four other states. Restoration times continue to be assessed.
 - Duke Energy Florida has restored almost all customers impacted by Hurricane Matthew as of the afternoon of Tuesday, October 12. Crews are ready to deploy to the Carolinas to assist in restoration efforts.
 - Clay Electric concluded its restoration efforts the night of Monday, October 10, having restored power to more than 73,000 members in a three-day period beginning at 6:00 AM EDT on Saturday, October 8. The cooperative has ended its Emergency Operation Plan status and is returning to normal operating activities.

- Georgia
 - As of 11:00 AM EDT, October 13, the State of Georgia has 9,482 customer outages as a result of Hurricane Matthew. This represents <1% of customers in the state.
 - As of 11:00 AM EDT, October 13, Georgia Power has 9,375 customer outages.
 - Georgia Power's restoration crews continue to repair damage to electrical infrastructure including more than 500 distribution poles that have either been damaged or broken.
 - Georgia Power has mobilized a workforce of nearly 5,000 personnel from Georgia Power and mutual assistance crews from other states, including Alabama, Mississippi, Louisiana and Texas.
 - Georgia Power estimates that damage from Hurricane Matthew included:
 - Approximately 1,000 power poles broken or damaged.
 - Nearly 80 miles of wire needing to be replaced.
 - More than 1,800 fallen trees causing damage to electrical equipment.



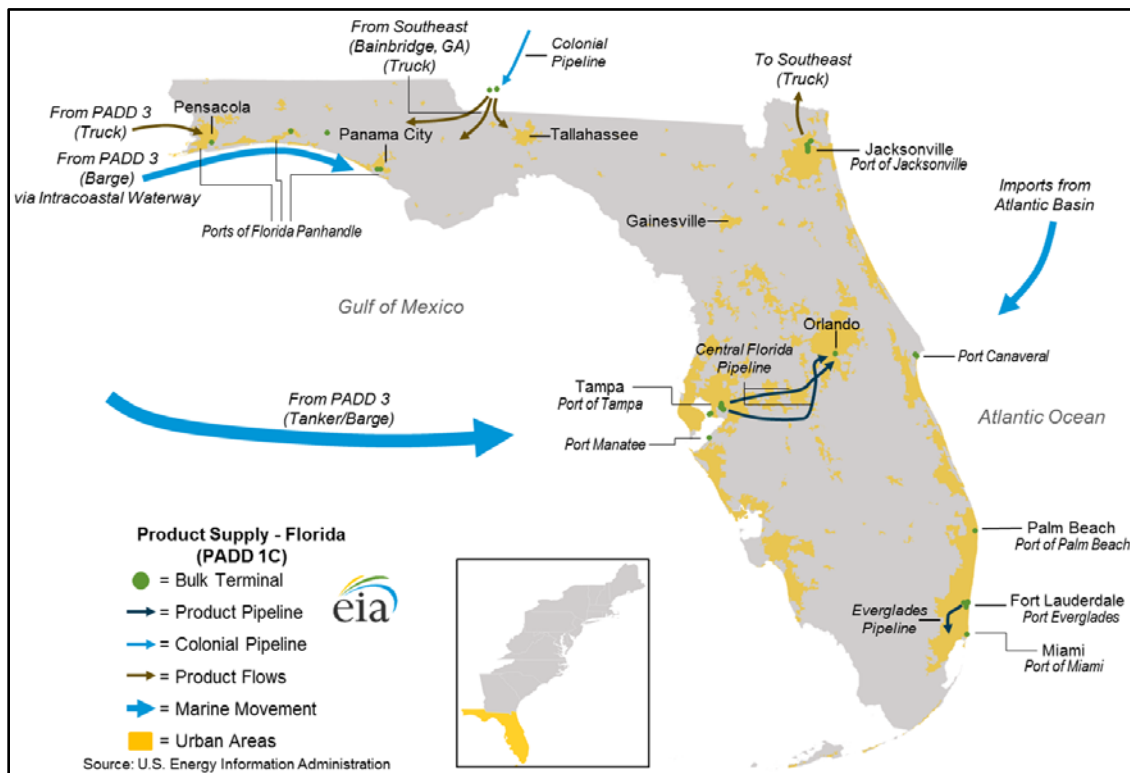
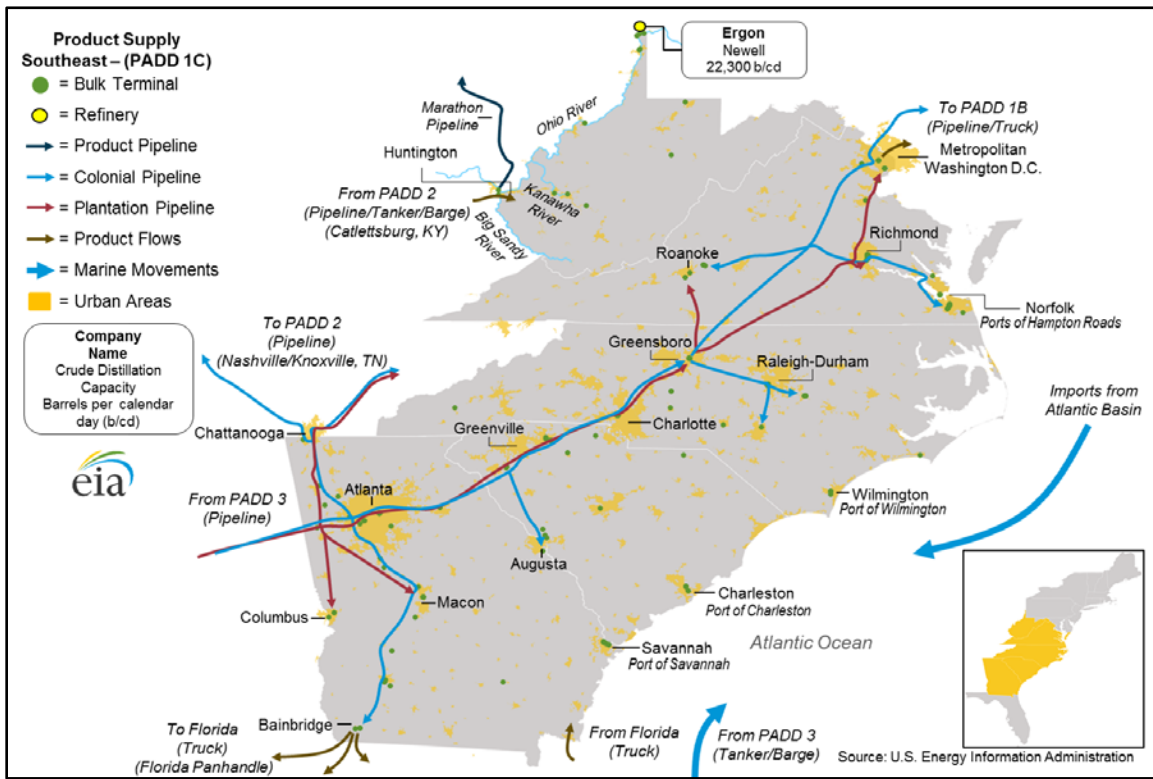
- As of 9:00 AM EDT, October 13, Georgia Power reported power had been restored to over 95% of all affected customers. Over 340,000 customers were impacted by Hurricane Matthew. Approximately 5,000 personnel remain engaged in restoration efforts and are concentrating in the Savannah Area.
- South Carolina
 - As of 11:00 AM EDT, October 13, the State of South Carolina has 91,247 customer outages as a result of Hurricane Matthew. This represents 4% of customers in the state.
 - As of 11:00 AM EDT, October 13, Duke Energy has 32,449 customer outages.
 - As of 11:00 AM EDT, October 13, South Carolina Electric and Gas (SCE&G) has 11,423 customer outages.
 - As of 11:00 AM EDT, October 13, Santee Cooper has 5,878 customer outages.
 - The highest concentrations of power outages are in the Southeast corner of the state.
 - At its peak, 680,000 Duke Energy customers in North and South Carolina were without power.
 - Estimated time for nearly full restoration may extend into the weekend due to flood conditions impeding access to damaged areas.
 - Duke Energy has over 10,000 crewmembers making repairs. Additional crews have come from as far away as Canada.
 - Duke Energy has identified more than 115 substations that were impacted by flooding. As of the morning of Wednesday, October 12, approximately 98 have been restored. Many of the remaining substations are submerged.
 - Duke Energy has identified more than 800 broken poles and miles of downed lines; however, repairs are being hampered by downed trees, flooded or damaged roads.
 - Duke Energy contacted the Southeastern Electric Exchange and other utilities and related services to bring in roughly 6,000 personnel in addition to the 5,600 personnel already assembled.
 - Orlando Utilities Commission crews have deployed to assist Santee Cooper's restoration.
 - As of the afternoon of October 12, SCE&G crews have restored power to 90% of customers impacted by Hurricane Matthew from a peak of 290,000. Hardest hit were the coastal counties of Charleston, Beaufort, Dorchester and Colleton as well as Richland County in the Midlands. SCE&G secured more than 1,000 off-system crew members to supplement the more than 2,000 SCE&G employees assisting with storm restoration efforts. SCE&G expects substantial restoration to be complete by end-of-day Sunday, October 16.
- North Carolina
 - As of 11:00 AM EDT, October 13, the State of North Carolina has 46,260 customer outages as a result of Hurricane Matthew. This represents <1% of customers in the state.
 - As of 11:00 AM EDT, October 13, Duke Energy has 31,985 customer outages.
 - As of 11:00 AM EDT, October 13, Dominion Power has 781 customer outages.
 - North Carolina's 26 electric cooperatives collectively serve approximately 2.5 million people in 93 of the state's 100 counties.
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- Duke Energy has identified more than 800 broken poles and miles of downed lines; however, repairs are being hampered by downed trees, flooded or damaged roads.
- Duke Energy contacted the Southeastern Electric Exchange and other utilities and related services to bring in roughly 6,000 personnel in addition to the 5,600 personnel already assembled.
- In all service territories, some homes and businesses may not be able to receive power due to damage from flooding until they are repaired and inspected. DOE is working with state and industry partners, as well as FEMA to ensure residents understand restoration process in flood inundation areas.
- Virginia
 - As of 11:00 AM EDT, October 13, the Commonwealth of Virginia has 1,034 customer outages. This represents <1% of customers in the Commonwealth.
 - As of 11:00 AM EDT, October 13, Southside Electric Cooperative has 544 customer outages.
 - As of 11:00 AM EDT, October 13, Dominion Power has 405 customer outages.
 - As of Wednesday morning, October 12, Dominion Power has restored power to 97% of the As of Thursday morning, October 13, Dominion Power has restored power to 99% of the 462,000 customers impacted by Hurricane Matthew. The majority of those impacted are in southeastern Virginia and northeastern North Carolina, where historic rainfall, high winds, and saturated ground combined to cause damage to roads, bridges and electrical infrastructure.
 - Since the beginning of the storm, more than 3,500 crews from utilities in 11 states as far as Massachusetts and Florida have traveled to over 4,500 separate work locations to restore power.



PETROLEUM INFORMATION:





PETROLEUM PORTS:

- The table below lists the status of ports that receive petroleum products and their 2013 average receipts of transportation fuels (gasoline, distillates, and jet fuel).

Table 2. Status of U.S. Southeast Petroleum Ports as of 03:00 pm EDT 10/08/2016

Port Sector	Fuel Receipts* (barrels/day)	Status	Date Stamp
Sector Miami			
Port Everglades	236,000	Open with no restrictions	10/07/2016
Miami	1,500	Open with no restrictions	10/07/2016
Palm Beach	500	Open with no restrictions	10/07/2016
Sector St. Petersburg			
Tampa	273,700	Open with no restrictions	10/07/2016
Port Manatee	700	Open with no restrictions	10/07/2016
Sector Jacksonville			
Jacksonville	69,800	Open with no restrictions	10/08/2016
Canaveral	32,000	Open with no restrictions	10/08/2016
Sector Savannah			
Savannah	12,600	Open, limited to daylight hours only.	10/12/2016
Sector Charleston			
Charleston	16,500	Open with no restrictions	10/11/2016
Sector North Carolina			
Wilmington	11,500	Open with no restrictions	10/11/2016
Hampton Roads			
Hampton Roads	7,400	Open with no restrictions	10/11/2016

*2013 annual average of imports and domestic receipts. Includes gasoline, distillates, and jet fuel.

Source: U.S. Coast Guard; U.S. Energy Information Administration, PADDs 1 and 3 Transportation Fuels Markets (January 2016)

PETROLEUM REFINERIES:

- There are no refineries currently located within the storm’s 3-day track.

RETAIL SERVICE STATIONS:

- Florida continues to monitor for supply, distribution, or retail fuel shortages or issues, specifically for isolated incidents of individual retailers experiencing temporary fuel shortages. Officials are also working with fuel partners and suppliers to increase the number trucks moving fuel from the ports to retail locations.
- Florida law requires all motor fuel terminals to be able to dispense fuel for a minimum of 72 hours using an alternative fuel supply to the electric grid. All gas stations built after 2006, gas stations within one-half mile of an interstate highway or designated evacuation route, or gas stations in certain sized counties with a certain number of fueling positions must be prewired for an alternative power source.



STATE WAIVERS:

- Six states have active emergency declarations in order to waive Hours of Service (HOS) regulations for truck drivers delivering transportation fuels or other essential resources for emergency response. Table 4 lists the status of state emergency declarations.

Table 4. State Emergency Declarations and Hours of Service (HOS) Waivers as of 03:00 pm EDT 10/08/2016

State	Resources Cited	Effective Dates		Status
		Start	End	
Florida	Emergency services or supplies.	10/10/2016	10/14/2016	Active
Georgia	Resources to assist in preparation, response, and recovery activities.	10/05/2016	10/12/2016	Active
South Carolina	Essential services during or immediately following the event.	10/04/2016	TBD	Active
North Carolina	Fuel oil, diesel oil, gasoline, kerosene, propane, liquid petroleum gas.	10/03/2016	11/02/2016	Active
Virginia	Essential relief supplies, passengers, equipment, fuel, construction materials, and other critical supplies to or from any portion of the Commonwealth for purpose of providing direct relief or assistance as a result of this disaster.	10/06/2016	11/06/2016	Active
Kentucky	Utility power restoration and debris removal vehicles as well as commercial vehicles transporting relief supplies.	10/07/2016	11/07/2016	Active

Sources: U.S. Department of Transportation; Governor Office Websites.