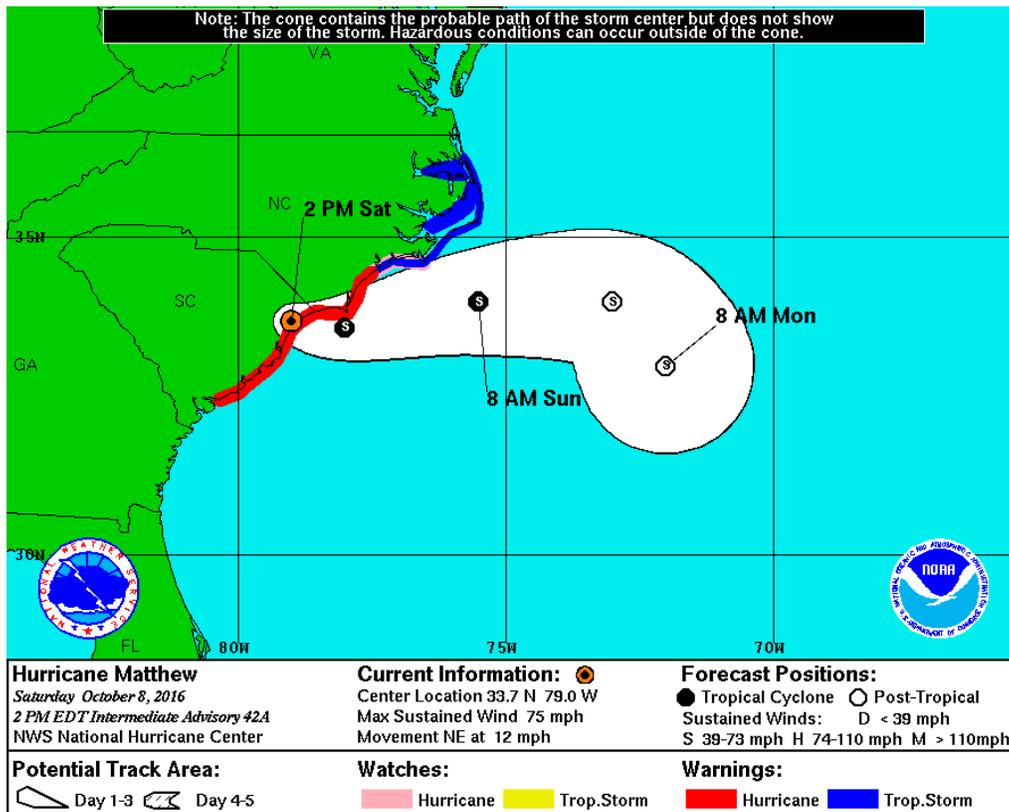




### Hurricane Matthew Situation Report October 8, 2016 4:00pm

#### OVERVIEW

As of the 2:00pm EDT, the center of Hurricane Matthew was over Myrtle Beach, South Carolina moving northeast at 12 mph, with maximum sustained winds of 75 mph (category 1). Hurricane-force winds extend outward up to 25 miles from the center and tropical storm-force winds extend outward up to 185 miles. The center of Matthew will continue along the northern coast of South Carolina and southern coast of North Carolina tonight, before turning east, early Sunday. There continues to be significant rainfall in North and South Carolina and flooding remains a concern. Matthew is expected to continue to weaken over the next 48 hours.





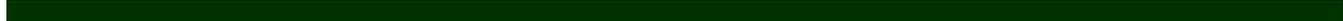
## IMPACTS AND PREPARATIONS FOR HURRICANE MATTHEW

### ELECTRICITY:

- Hurricane Matthew continues to impact the Carolinas after heavily impacting Florida and Georgia. Many customers have already had service restored in parts of Florida, however, hardest hit areas around Jacksonville may take several days to restore. Restoration efforts are beginning in Georgia and will begin in the Carolinas as soon as conditions are safe. On Thursday, October 07, President Obama declared States of Emergency for Florida, Georgia, South Carolina, and North Carolina.
- Florida
  - As of 3:00 PM EDT, October 08, the State of Florida has approximately 763,828 customer outages.
    - As of 3:00 PM EDT, October 08, Florida Power and Light Company (FPL) has approximately 406,240 customer outages.
    - As of 3:00 PM EDT, October 08, Duke Energy has approximately 102,413 customer outages.
    - A number of other utilities make up the other 255,175 customer outages reported in Florida.
  - 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 a workforce of more than 15,000 responding, including 12,000 field personnel.
  - As of 11:00 AM, FPL has been able to restore about 60% of customers who lost power during Matthew.
  - Restoration is essentially complete in Miami, Dade and Broward Counties.
  - As of 1PM October 8, about 50% of customers have been restored in Brevard County.
  - The majority of restoration, including Palm Beach County, is expected to be complete by the end of Sunday.
  - Restoration in hard hit areas and in isolated areas may extend into Monday.
  - Orlando Utilities Commission reported as of 10:00 AM EDT October 8 that restoration is 99% complete.
  - Jacksonville Electric Authority (JEA) covers one of the hardest hit areas in Florida. As of 10:30 AM EDT, October 8, JEA reports the estimated time for restoration is not yet known.
  - New Smyrna Beach Utilities Commission and Vero Beach municipal utilities were also in hard hit areas. Restoration estimates are unavailable at this time.
  - Duke Energy Florida reports more than 2,200 line and vegetation personnel are on the ground and an additional 170 Duke Energy crews will be arriving from the Midwest.
  - Beginning at 6 AM on Saturday, October 8, more than 150 Clay Electric Cooperative personnel, along with help from nearly 500 construction and right-of-way personnel from other cooperatives and outside contractors, began a major effort to restore service to members that were impacted by Hurricane Matthew. As of 12:30 PM October 8, approximately 30% of outages had been restored.



- Governor Scott directed the state to begin setting up housing for utility crews in strategic areas across the state. Camp Blanding in Northeast Florida is now able to house over 1,000 utility workers and their trucks.
- Georgia
  - As of 3:00 PM EDT, October 08, the State of Georgia has 311,253 customer outages as a result of Hurricane Matthew.
    - As of 3:00 PM EDT, October 08, Georgia Power has approximately 253,880 customer outages.
    - A number of other utilities make up the other 57,373 customer outages reported in Georgia.
  - Georgia Power has implemented its emergency plan. Nearly 5,000 workers are ready to deploy to the hardest areas as soon as Hurricane Matthew passes.
  - As of 7:30 AM EDT October 8, Georgia Power reported 2,576 individual cases of damage, including broken poles and downed lines. Damage and power outages are concentrated in Coastal Georgia, including Chatham, Camden Glynn, McIntosh, Liberty, Bryan, Effingham, and Wayne Counties.
  - The Georgia State Operations Center (SOC) is operating 24/7 through the holiday weekend.
  - The Governor of Georgia has issued a mandatory evacuation for all Georgia residents living east of I-95.
  - Georgia Power utility crews have joined the Georgia Re-Entry Strike Teams to expedite cleaning debris from roads with downed power lines.
  - Georgia Power crews are staged and ready to begin restoration once winds subside.
- South Carolina
  - As of 3:00 PM EDT, October 08, the State of South Carolina has 706,449 customer outages as a result of Hurricane Matthew.
    - As of 3:00 PM EDT, October 08, South Carolina Electric and Gas has approximately 276,302 customer outages.
  - The highest concentrations of power outages are in the Southeast corner of the state.
  - Multiple utilities are prepositioned and will restore customers in heavily impacted areas as conditions permit.
  - South Carolina Electric & Gas (SCE&G) has publically clarified that it does not plan to shut down natural gas or power before the storm, despite rumors to the contrary. It has secured an additional 250 off-system crew members to supplement the more than 2,000 employees responding to the storm.
- North Carolina
  - As of 3:00 PM EDT, October 08, the State of North Carolina has 144,666 customer outages as a result of Hurricane Matthew.
  - North Carolina's 26 electric cooperatives collectively serve approximately 2.5 million people in 93 of the state's 100 counties.
  - Electric cooperatives are beginning to experience outages in inland and coastal southern counties. Crews are staged and additional crews from western North Carolina and Virginia have moved in to help.



- Brunswick Nuclear Power Plant is operational at this time and has prepared for the storm; however, per standard operating procedure, the plant would be required to shut down two hours prior to the impact of hurricane force winds of 72 miles per hour or greater. Current forecast of sustained winds of 50-65 mph,
  - Duke Energy has 2,300 line workers in place in anticipation of widespread power outages. As part of the company's preparation efforts, teams completed aerial inspections of the main transmission lines in the coastal North Carolina area to verify that trees were safely cleared away.
  - Currently, the North Carolina Emergency Operations Center (EOC) is operating from 8AM to 5PM. That will change to a 24/7 schedule at 7:00 AM, Saturday, October 08.
  - Per 11:00 PM EDT October 7 Field Report, there is currently no known concern regarding the status of the NC Nuclear Power Plants (i.e. Brunswick).
- Virginia
    - As of 3:00 PM EDT, October 08, the State of Virginia has 1,392 customer outages.

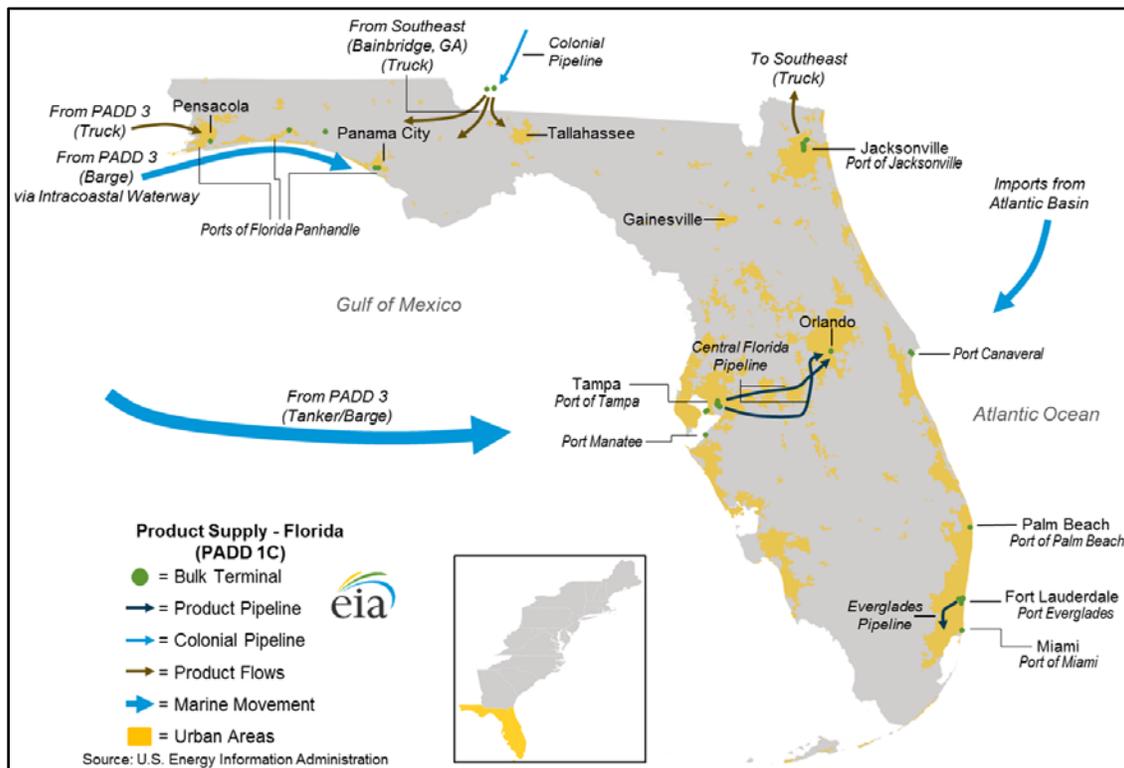
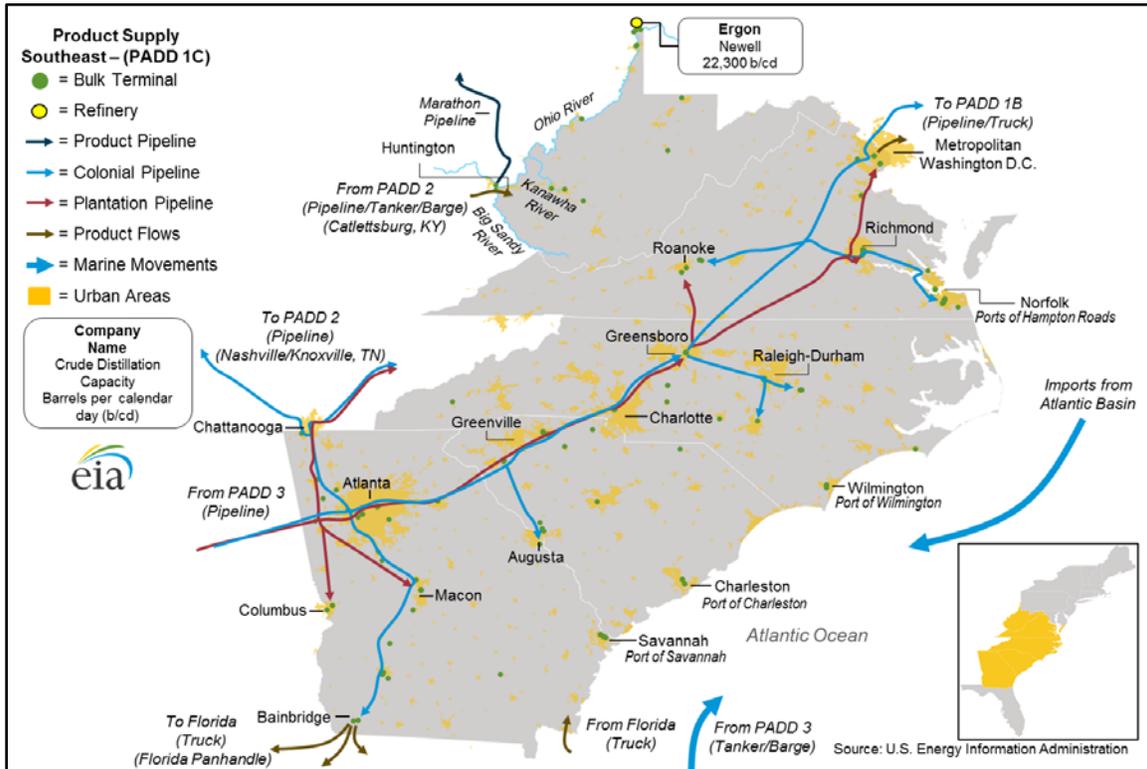
<b>Table 1. Electricity Outages as of 3:00 PM EDT 10/08/2016</b> According to Field reports and utility websites			
<b>Impacted State</b>	<b>Current Confirmed Customer Outages</b>	<b>Percent of Confirmed State Customers without Power</b>	<b>24-hr Peak Customer Outages</b>
Florida	763,828	8%	869,531
Georgia	311,253	7%	311,253
South Carolina	706,449	28%	706,449
North Carolina	144,666	3%	144,666
Virginia	1,392	<1%	5,133
<b>Total</b>	<b>1,927,588</b>		*

\*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.





PETROLEUM INFORMATION:





PETROLEUM PORTS:

- The Port of Hampton Roads in Virginia has been closed (Condition Zulu). In Sector Jacksonville, Port Canaveral has been opened with restrictions. Other ports in sectors Jacksonville, Savannah, Charleston and Wilmington remain closed. Ports in Sector Miami remain open. Table 1 lists the status of ports that receive petroleum products and their 2013 average receipts of transportation fuels (gasoline, distillates, and jet fuel).
- The State of Florida reported October 08 that Ports are beginning to reopen, and will resume normal fuel delivery schedules as ports reopen.

**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
<b>Sector Miami</b>			
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
<b>Sector St. Petersburg</b>			
Tampa	273,700	Open with no restrictions	10/07/2016
Port Manatee	700	Open with no restrictions	10/07/2016
<b>Sector Jacksonville</b>			
Jacksonville	69,800	Closed (Zulu)	10/06/2016
Canaveral	32,000	Open with restrictions	10/08/2016
<b>Sector Savannah</b>			
Savannah	12,600	Closed (Zulu)	10/07/2016
<b>Sector Charleston</b>			
Charleston	16,500	Closed (Zulu)	10/07/2016
<b>Sector North Carolina</b>			
Wilmington	11,500	Closed (Zulu)	10/07/2016
<b>Hampton Roads</b>			
Hampton Roads	7,400	Closed (Zulu)	10/08/2016

\*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.	10/03/2016	10/10/2016	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.