



Tropical Cyclone Michael | Report #6

REPORT TIME & DATE: 5:00 PM EDT | Friday, October 12, 2018
INCIDENT START DATE: Wednesday, October 10, 2018
PRIMARY LOCATION(S): Alabama, Florida, Georgia, North Carolina, South Carolina, Virginia
REPORT DISTRIBUTION: Public

EXECUTIVE SUMMARY

Hurricane Michael made landfall near Mexico Beach, Florida as a category 4 storm on Wednesday October 10 and then moved across the southeast of the U.S., across Georgia, South Carolina, North Carolina, and southeastern Virginia on October 11, before moving into the Atlantic. Michael caused significant damage to portions of the Florida Panhandle and southwestern Georgia and numerous power outages across the affected region.

Electricity Sector Summary

- Customer Outages as of 3:00 PM EDT:
 - Alabama: 9,897 customer outages (0.4%), decrease of 61%
 - Florida: 343,684 customer outages (3.4%), decrease of 2%
 - Georgia: 288,677 customer outages (6.1%), decrease of 5%
 - North Carolina: 362,468 customer outages (7.3%), increase of 26%
 - South Carolina: 4,873 customer outages (0.2%), decrease of 34%
 - Virginia: 365,300 customer outages (9.7%), decrease of 30%
- Crews across the impacted area are performing damage assessments and restorations.
- Fluctuation in the outage numbers is expected and normal during large-scale restoration efforts.
- Utilities across the impacted area pre-staged crews, equipment, and materials and mutual assistance networks have been activated, with over 35,000 personnel positioned to support restoration efforts from 26 states.

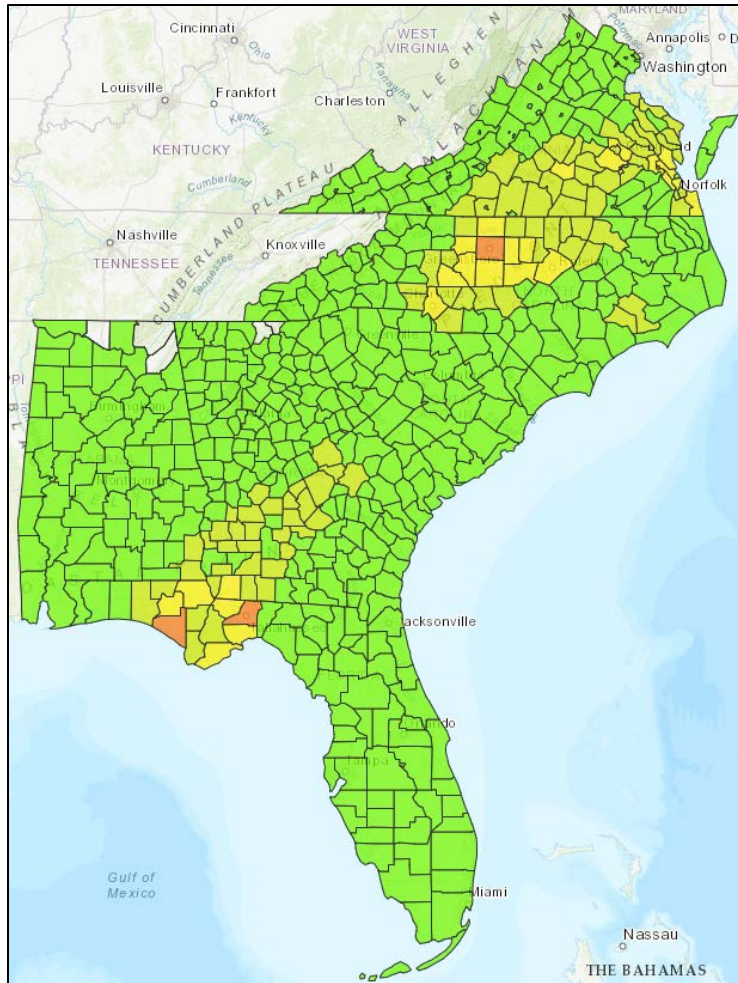
Oil & Natural Gas Sector Summary

- For the week ending on October 5, the Lower Atlantic Region (WV, VA, NC, SC, GA, and FL) had 28.1 million barrels of total gasoline stocks, according to the Energy Information Administration. This is 9% higher than the 5-year average for this time of year.
- As of 1:00 PM October 12, 6.0% of Florida gas stations (including 39% of Florida Panhandle stations), 3.4% of Georgia gas stations, and 1.7% of Alabama gas stations were reported out-of-service due to lack of fuel and/or power. Not all stations have been updated following the storm.

ELECTRICITY SECTOR

POWER OUTAGES

Outage Map (as of 4:00 PM EDT)



ELECTRICITY OUTAGES AS OF 3:00 PM EDT 10/12/2018**

Impacted State	Current Customers Outages	Percent of Total Customers in State without Power	24-Hour Peak Customer Outages
Alabama	9,897	0.39%	38,344
Florida**	343,684	3.39%	398,741
Georgia**	288,677	6.10%	470,410
North Carolina	362,468	7.32%	587,818
South Carolina	4,873	0.19%	117,221
Virginia	365,300	9.72%	572,666
Total	1,374,899	-	*

*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.

**Outage number for Florida & Georgia are from the State Emergency Operations Centers as of 12:00pm

ELECTRICITY IMPACTS & RESTORATION EFFORTS

- Crews in the impacted area have begun to perform damage assessments and restorations. Some restorations in the hardest hit areas may be limited due to access constrains.
- The electric industry has mobilized over 35,000 personnel, including utility crews, contractors, and mutual assistance workers from 26 states to support the restoration efforts.
- No generation impacts have been reported.
- Mutual aid networks have been activated and crews from utilities across the country are supporting the restoration efforts.
- Fluctuation in the outage numbers is expected and normal during large-scale restoration efforts.

Alabama

9,897 Customer Outages	↓ 61% since Oct 12, 7:00 AM EDT	38,344 24-hr Peak Outages
-------------------------------	--	----------------------------------

- **Significantly Impacted Utilities**
 - Alabama Power: 9,627 Customer Outages

Florida

343,684 Customer Outages	↓ 2% since Oct 12, 7:00 AM EDT	398,741 24-hr Peak Outages
---------------------------------	---------------------------------------	-----------------------------------

- **Significantly Impacted Utilities**
 - Gulf Power (Southern Company): 106,351 Customer Outages
 - Tallahassee Electric: 74,173 Customer Outages
 - Talquin Electric Coop: 46,130 Customer Outages
 - Duke Energy Florida: 25,341 Customer Outages

Georgia

288,677 Customer Outages	↓ 5% since Oct 12, 7:00 AM EDT	470,410 24-hr Peak Outages
---------------------------------	---------------------------------------	-----------------------------------

- **Significantly Impacted Utilities**
 - Georgia Power: 68,028 Customer Outages
 - Mitchell EMC: 24,021 Customer Outages
 - Grady EMC: 15,611 Customer Outages
 - Sumter EMC: 9,405 Customer Outages

North Carolina

362,468 Customer Outages	↓ 26% since Oct 12, 7:00 AM EDT	587,818 24-hr Peak Outages
---------------------------------	--	-----------------------------------

- **Significantly Impacted Utilities**
 - Duke Energy: 313,401 Customer Outages
 - Piedmont EMC: 16,897 Customer Outages
 - Energy United: 16,473 Customer Outages

South Carolina

4,873 Customer Outages	↓ 34% since Oct 12, 7:00 AM EDT	117,221 24-hr Peak Outages
-------------------------------	--	-----------------------------------

- **Significantly Impacted Utilities**
 - Duke Energy: 1,696 Customer Outages



Virginia

365,300 Customer Outages | **↓ 30%** since Oct 11, 3:00 PM EDT | **572,666** 24-hr Peak Outages

- **Significantly Impacted Utilities**
 - Dominion Power: 276,290 Customer Outages
 - VA Electric Cooperatives: 43,438 Customer Outages
 - Appalachian Power: 15,280 Customer Outages

BACKGROUND AND PREPARATIONS

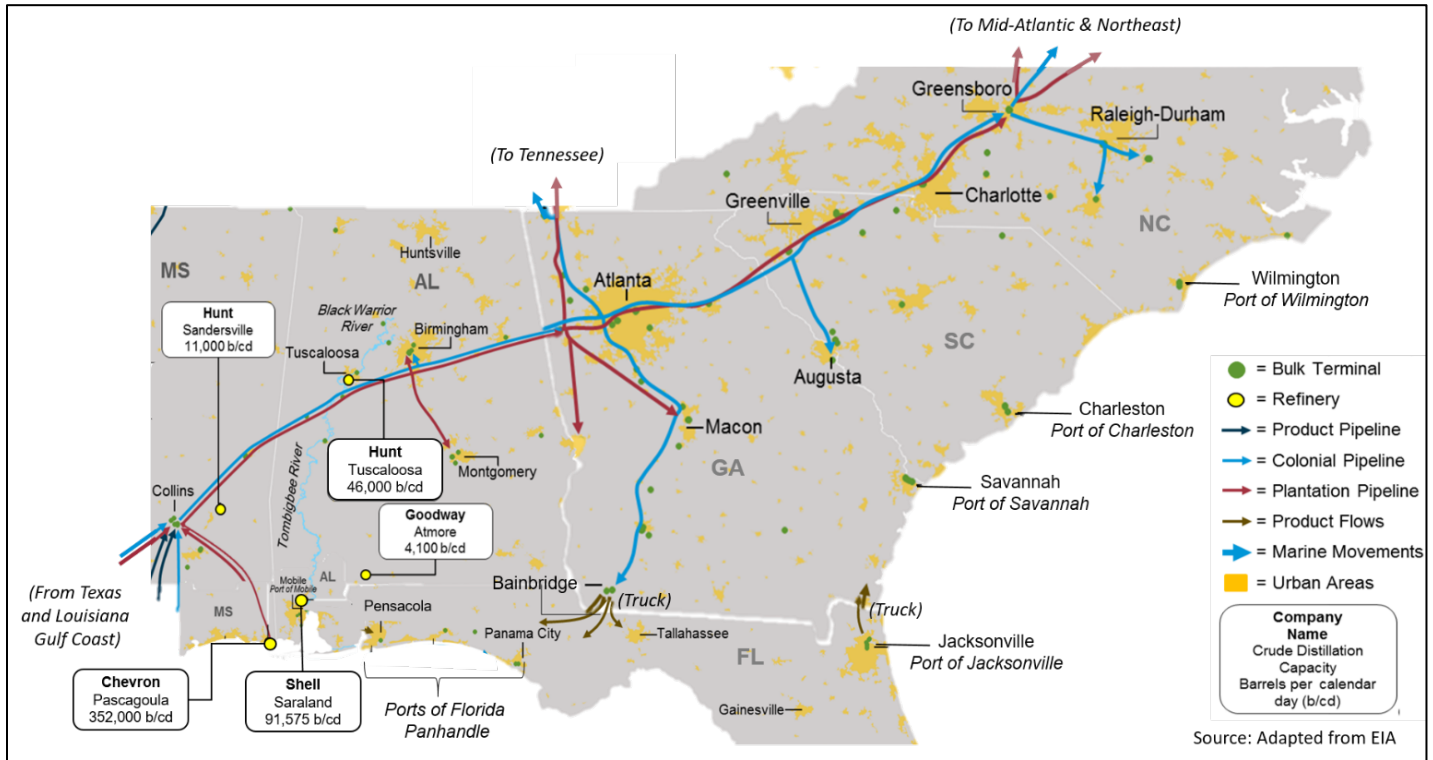
- The affected area is served by several utilities, including investor owned utilities, municipal utilities, and cooperative utilities. The three associations that represent these utilities and manage the mutual assistance networks, Edison Electric Institute (EEI), American Public Power Association (APPA), and the National Rural Electric Cooperative Association (NRECA), have been in regular contact with DOE, the potentially affected entities, and their mutual assistance networks.



OIL & NATURAL GAS SECTOR

OIL AND NATURAL GAS SECTOR OVERVIEW

The map below highlights the petroleum fuels supply chain in the area threatened by Hurricane Michael.



OFFSHORE PRODUCTION AND OIL & GAS PLATFORMS

- As of 12:30 PM EDT, October 12, 550,313 b/d (32.4%) of the oil production and 334 MMcf/d (13.05%) of the natural gas production in the federally administered areas of the U.S. Gulf of Mexico are shut-in, according to estimates by the Bureau of Safety and Environmental Enforcement (BSEE).

U.S. Gulf of Mexico Oil & Gas Production Status		
as of 12:30 PM EDT 10/12/2018		
Production	Pre-Event	Shut-In (10/12)
Crude Oil (b/d)	1,700,000	550,313
Natural Gas (MMcf/d)	2,560	334
Infrastructure	Pre-Event Count	Evacuated (10/12)
Manned Platforms	687	9
Rigs	37	0

Source: BSEE

PORTS

- The Louisiana Offshore Oil Port (LOOP), the largest privately-owned crude terminal in the United States, said it resumed normal operations at its Marine Terminal on Oct. 11 after operations were suspended ahead of Hurricane Michael.
- The U.S. Coast Guard has set the following conditions for Gulf Coast and Southeast ports as a result of Hurricane Michael.

Status of Southeast Ports as of 2:30 PM EDT 10/12/2018							
Port Sector	Port	Status	Date Stamp	2016 Volumes (b/d)			
				Products*		Crude Oil	
				In	Out	In	Out
Mobile	Mobile, AL	Open.	10/10	4,000	136,000	210,000	12,000
	Pascagoula, MS	Open.	10/10	13,000	114,000	156,000	2,000
	Panama City, FL	Closed. Port Status Zulu.	10/09	7,697	-	-	-
	Pensacola, FL	Open.	10/11	10,273	-	-	-
Jacksonville	Jacksonville, FL	Open.	10/11	86,000	1,000	-	-
Savannah	Savannah, GA	Open.	10/11	15,000	1,000	-	-
Charleston	Charleston, SC	Open.	10/11	22,000	-	-	-
North Carolina	Wilmington, NC	Open.	10/12	6,000	-	-	-
Hampton Roads	Norfolk, VA	Open.	10/12	7,000	9,000	-	-
	Newport News, VA	Open.	10/12	3,000	-	-	-

*Transportation fuels (gasoline, distillate, jet fuel) volumes only.

Source: U.S. Coast Guard [Homeport](#), U.S. Army Corp of Engineers, EIA Company Level Imports, American Maritime Partnership

FUEL STOCKS

- For the week ending on October 5, the Lower Atlantic Region (WV, VA, NC, SC, GA, and FL) had 28.1 million barrels of total gasoline stocks, according to the Energy Information Administration (EIA). This is 9% higher than the 5-year average for this time of year.
- For the week ending on October 5, the Lower Atlantic Region had 12.6 million barrels of total distillate stocks, according to EIA. This is equivalent to the 5-year average for this time of year.
- Florida Department of Emergency Management (FDEM) is monitoring statewide fuel stocks and retail fuel supplies; no reported supply shortages, distribution issues, or retail fuel shortage reported as of October 9.

RETAIL FUEL STATIONS

- As of 1:00 PM October 12, 6.0% of Florida gas stations (including 39% of Florida Panhandle stations), 3.4% of Georgia gas stations, and 1.7% of Alabama gas stations were reported out-of-service due to lack of fuel, lack of power, or both, according to GasBuddy.com.

Disclaimer: Data may not be current. 81% of stations in Pensacola, 59% of stations in Panama City, 71% of stations in Tallahassee, 28% of stations in Thomasville, and 22% of stations in Albany have updated status since 10/09/18.



EMERGENCY DECLARATIONS & WAIVERS

EMERGENCY DECLARATIONS

To provide vital supplies and transportation services to a disaster area in the United States, emergency declarations may be issued by the President, Governors of States, or Federal Motor Carrier Safety Administration (FMCSA). These declarations trigger the temporary suspension of certain Federal safety regulations, including Hours of Service, for motor carriers and drivers engaged in specific aspects of the emergency relief effort. See [49 CFR 390.23](#) for the actual emergency regulation.

State Emergency Declarations and HOS Waivers as of 7:30 AM EDT 10/12/2018				
State*	Details	Effective Dates		Status
		Start	End	
AL, FL, GA, LA, MS, NC, SC, TN	FMCSA Regional Emergency Declaration	10/09	11/09	Active
Florida*	State of Emergency Declaration	10/07	12/06	Active
South Carolina**	State of Emergency Declaration	10/08	11/07	Active
Alabama	State of Emergency Declaration	10/08	11/07	Active
Georgia*	State of Emergency Declaration	10/09	10/16	Active
North Carolina*	State of Emergency Declaration	10/10	Until Rescinded	Active
Kentucky	State of Emergency Declaration	10/10	11/10	Active
Virginia	State of Emergency Declaration	10/11	11/11	Active

Sources: [U.S. Department of Transportation](#); Governor Office Websites

*Includes 35 counties in northern Florida, 108 counties in southern Georgia, and 66 counties in North Carolina. See Declarations for the full listing.

**South Carolina issued a thirty day extension of its Hurricane Florence emergency declaration

FUEL WAIVERS

The Environmental Protection Agency (EPA), working with the Department of Energy (DOE), responds quickly to address fuel supply disruptions caused by hurricanes or other natural disasters by issuing emergency waivers of certain fuel standards in affected areas. There are no fuel waivers at this time.

OTHER FEDERAL WAIVERS

- On October 10, **PHMSA** issued an **Emergency Stay of Enforcement for pipeline and LNG facility operators** affected by Hurricane Michael. Under the stay, PHMSA does not intend to take enforcement action relating to operators’ temporary noncompliance with operator qualification requirements found in 49 C.F.R. §§ 192.801–192.809 and 195.501–195.509, or pre-employment and random drug testing requirements found in 49 C.F.R. § 199.105(a), (c) arising from the use of personnel for pipeline activities related to response and recovery. The stay which went into effect on October 10 will remain in effect for 45 days until November 24, unless PHMSA determines an extension is required. In addition, on October 10, **PHMSA** issued an **Emergency Assistance Personnel** waiver for Alabama, Florida, Georgia, North Carolina, and South Carolina affected by Hurricane Michael. For 30 days following October 10, PHMSA waived the notice required under 49 U.S.C. § 60118(d), which necessitates a 60-day review period for States to notify PHMSA that it intends to waive a pipeline safety regulation adopted by the State pursuant to State certification under 49 U.S.C. § 60105 for the above listed requirements.

