



## Tropical Cyclone Michael | Report #14

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**REPORT TIME & DATE:** 4:30 PM EDT | Tuesday, October 16, 2018  
**INCIDENT START DATE:** Wednesday, October 10, 2018  
**PRIMARY LOCATION(S):** Alabama, Florida, Georgia, North Carolina, South Carolina, Virginia  
**REPORT DISTRIBUTION:** Public

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*NOTE: Beginning on Wednesday, October 17, DOE will issue a single report per-day on impacts from Hurricane Michael.*

### EXECUTIVE SUMMARY

Hurricane Michael made landfall near Mexico Beach, Florida as a category 4 storm on Wednesday October 10, then moved 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 4:00 PM EDT:
  - Alabama: 2,303 customer outages (0.09%), decrease of 16% since last report
  - Florida: 138,588 customer outages (1.37%), decrease of 1% since last report
  - Georgia: 59,000 customer outages (1.25%), decrease of 16% since last report
  - North Carolina: 4,287 customer outages (0.1%), decrease of 49% since last report
  - Virginia: 6,219 customer outages (0.2%), decrease of 38% since last report
  - *Total: 210,711 customer outages, decrease of 9% since last report*
- Restoration efforts are underway across the affected region. Efforts in the hardest-hit areas may be prolonged due the level of damage, which will require partial system rebuilds.
- Fluctuation in the outage numbers is expected and normal during large-scale restoration efforts.
- Mutual assistance networks have been activated and over 36,000 personnel are supporting the restoration efforts from 27 states.

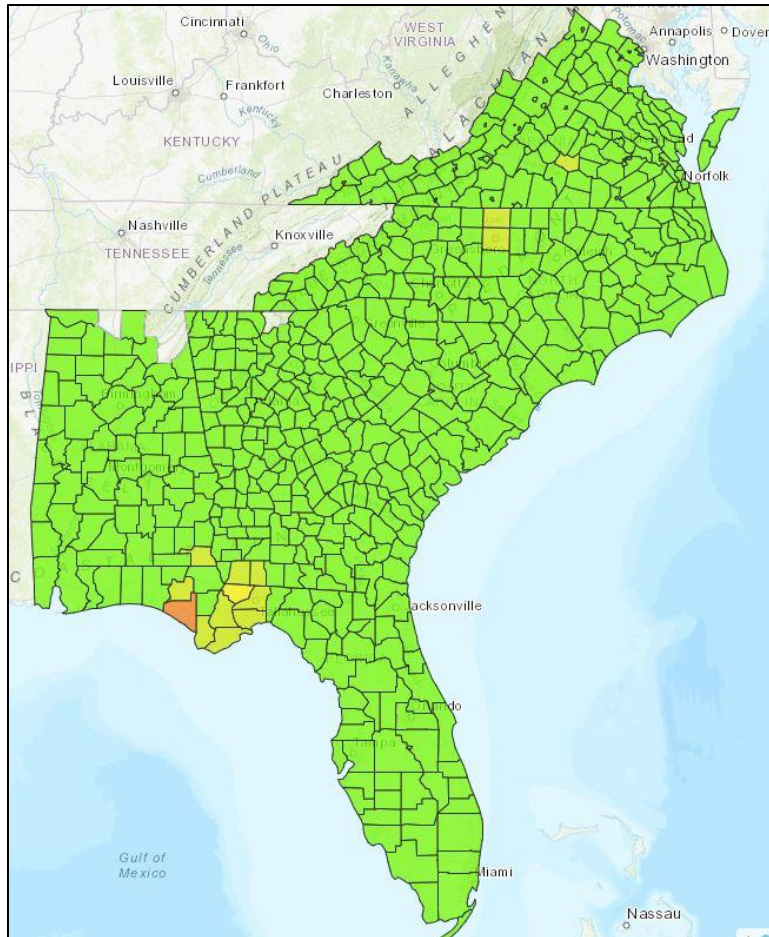
#### Oil & Natural Gas Sector Summary

- 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 1:30 PM October 16, 5.4% of Florida gas stations (including 34% of Florida Panhandle stations), 3.4% of Georgia gas stations, and 2.6% 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 10/16/2018**

Source: ESF-12 Responders & EAGLE-I

Impacted State	Current Customers Outages	Percent of Total Customers in State without Power	24-Hour Peak Customer Outages
Alabama	2,303	0.09%	6,004
Florida	138,588	1.37%	150,898
Georgia	59,000	1.25%	84,835
North Carolina	4,287	0.09%	26,914
South Carolina	314	0.01%	2,653
Virginia	6,219	0.17%	25,751
<b>Total</b>	<b>210,711</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.

**ELECTRICITY IMPACTS & RESTORATION EFFORTS**

- Crews in the impacted area continue to perform damage assessments and restorations. Some restorations in the hardest hit areas may be prolonged due to the extent of damage.
- The electric industry has mobilized over 36,000 personnel, including utility crews, contractors, and mutual assistance workers from 27 states to support the restoration efforts.
- Fluctuation in the outage numbers is expected and normal during large-scale restoration efforts.

**Alabama**

<b>2,303</b> Customer Outages	↓ <b>16%</b> since Oct 16, 7:00 AM EDT	<b>6,004</b> 24-hr Peak Outages
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- **Significantly Impacted Utilities**
  - Wiregrass Electric Coop: 2,005 Customer Outages

**Florida**

<b>138,588</b> Customer Outages	↓ <b>1%</b> since Oct 16, 7:00 AM EDT	<b>150,898</b> 24-hr Peak Outages
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- **Significantly Impacted Utilities**
  - Gulf Power (Southern Company): 55,222 Customer Outages
  - West Florida Electric Coop Association: 17,733 Customer Outages
  - Talquin Electric Coop: 15,369 Customer Outages
  - Duke Energy Florida: 12,860 Customer Outages
  - Tallahassee Electric: 2,603 Customer Outages

**Georgia**

<b>59,000</b> Customer Outages	↓ <b>16%</b> since Oct 16, 7:00 AM EDT	<b>84,835</b> 24-hr Peak Outages
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- **Significantly Impacted Utilities**
  - Mitchell EMC: 13,163 Customer Outages
  - Grady EMC: 7,188 Customer Outages
  - Georgia Power: 4,072 Customer Outages
  - Diverse Power: 830 Customer Outages
  - Sumter EMC: 1,081 Customer Outages

**North Carolina**

<b>4,287</b> Customer Outages	↓ <b>49%</b> since Oct 16, 7:00 AM EDT	<b>26,914</b> 24-hr Peak Outages
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- **Significantly Impacted Utilities**
  - Duke Energy: 3,965 Customer Outages

**Virginia**

<b>6,219</b> Customer Outages	↓ <b>38%</b> since Oct 16, 7:00 AM EDT	<b>25,751</b> 24-hr Peak Outages
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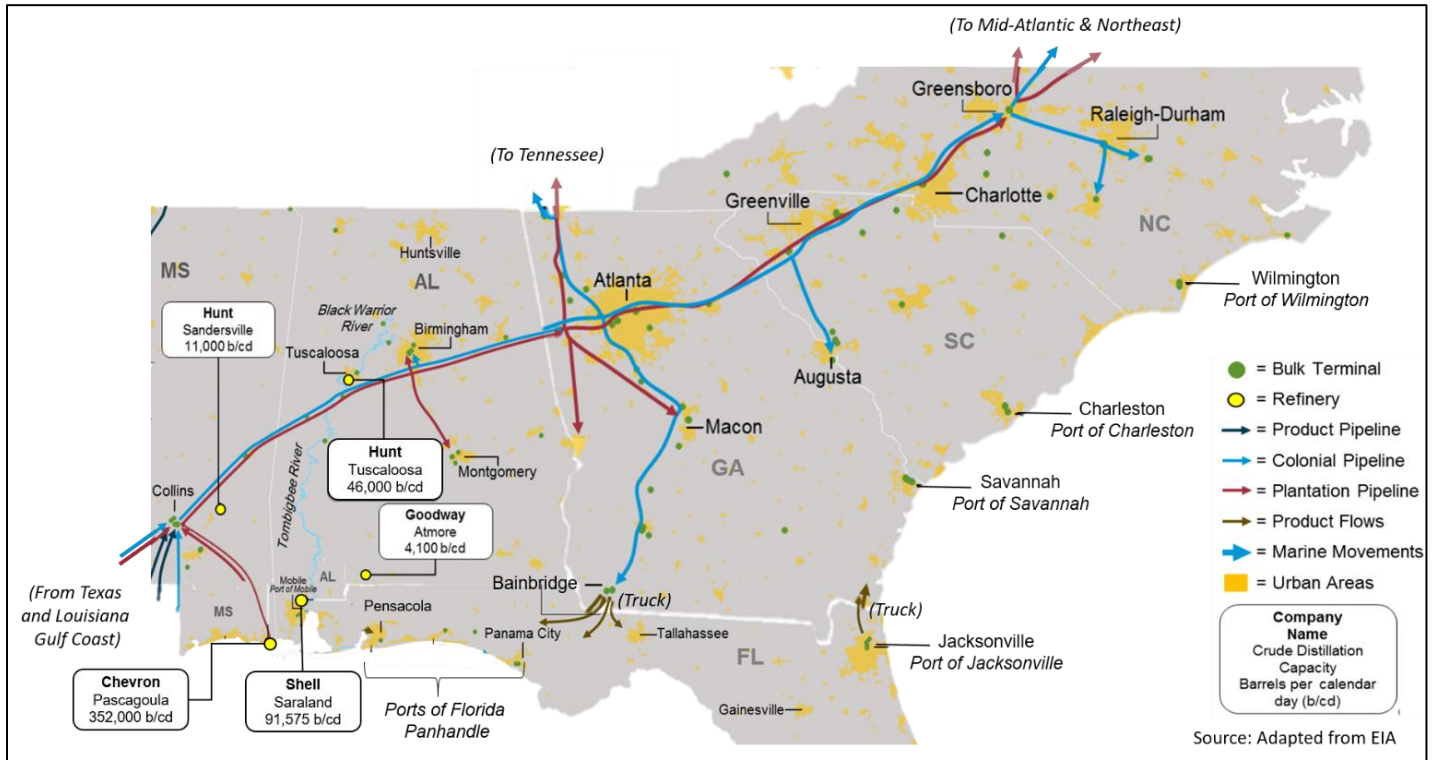
- **Significantly Impacted Utilities**
  - VA Electric Cooperatives: 2,893 Customer Outages
  - Dominion Power: 2,456 Customer Outages



## PETROLEUM SECTOR

### PETROLEUM 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 15, 198,622 b/d (11.7%) of the oil production and 168 MMcf/d (6.6%) 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 10/16/2018		
Production	Pre-Event	Shut-In (10/16)
Crude Oil (b/d)	1,700,000	130,138
Natural Gas (MMcf/d)	2,560	90
Infrastructure	Pre-Event Count	Evacuated (10/16)
Manned Platforms	687	0
Rigs	37	0

Source: BSEE

## PORTS

All ports in the Southeast have fully reopened except for Panama City, which is open with restrictions (daylight operations only) as of Oct. 12. The Port of Panama City has reported significant damage with an estimated timeline of 3 weeks to return to normal operations. The Port has commercial power.

## 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 1:30 PM October 16, 5.4% of Florida gas stations (including 34% of Florida Panhandle stations), 3.4% of Georgia gas stations, and 2.6% 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.** 87% of stations in Pensacola, 80% in Panama City, 82% in Tallahassee, 36% in Thomasville, 34% in Albany, and 58% in Dothan 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 10/13/2018				
State*	Details	Effective Dates		Status
		Start	End	
AL, FL, GA, LA, MS, NC, SC, TN	<a href="#">FMCSA Regional Emergency Declaration</a>	10/09	11/09	Active
Florida*	<a href="#">State of Emergency Declaration</a>	10/07	12/06	Active
South Carolina**	<a href="#">State of Emergency Declaration</a>	10/08	11/07	Active
Alabama	<a href="#">State of Emergency Declaration</a>	10/08	11/07	Active
Georgia*	<a href="#">State of Emergency Declaration</a>	10/09	10/16	Active
North Carolina*	<a href="#">State of Emergency Declaration</a>	10/10	Until Rescinded	Active
Kentucky	<a href="#">State of Emergency Declaration</a>	10/10	11/10	Active
Virginia	<a href="#">State of Emergency Declaration</a>	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. The table below lists fuel-related waivers issued by the EPA:

Fuel Waivers as of 7:30 AM EDT 10/13/2018				
State	Waiver	Effective Dates		Status
		Start	End	
Florida	<a href="#">Restriction on red-dyed diesel fuel for highway use.</a> Allows the sale, distribution, and use of red dyed non-road locomotive and marine (NRLM) diesel fuel for use in utility, emergency response and other diesel-powered highway vehicles responding to/assisting in recovery efforts in the panhandle area of Florida. Diesel fuel must meet the 15ppm standard.	10/12	10/26	Active

Sources: [U.S. Environmental Protection Agency](#); State Governments



**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.

