



## Tropical Cyclone Michael | Report #9

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**REPORT TIME & DATE:** 9:00 AM EDT | Sunday, October 14, 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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### 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 7:00 AM EDT:
  - Alabama: 6,570 customer outages (0.3%), decrease of 37% since last report
  - Florida: 200,762 customer outages (2%), decrease of 19% since last report
  - Georgia: 152,724 customer outages (3.2%), decrease of 14% since last report
  - North Carolina: 109,473 customer outages (2.2%), decrease of 42% since last report
  - South Carolina: No significant customer outages
  - Virginia: 84,245 customer outages (2.2%), decrease of 44% since last report
  - *Total: 554,789 customer outages, decrease of 30% since last report*
- Damage assessments and restoration efforts are underway across the affected region. Efforts in the hardest-hit areas may be prolonged due to access constraints and the level of damage.
- Fluctuation in the outage numbers is expected and normal during large-scale restoration efforts.
- Mutual assistance networks have been activated and over 35,000 personnel are supporting the restoration efforts from 26 states.

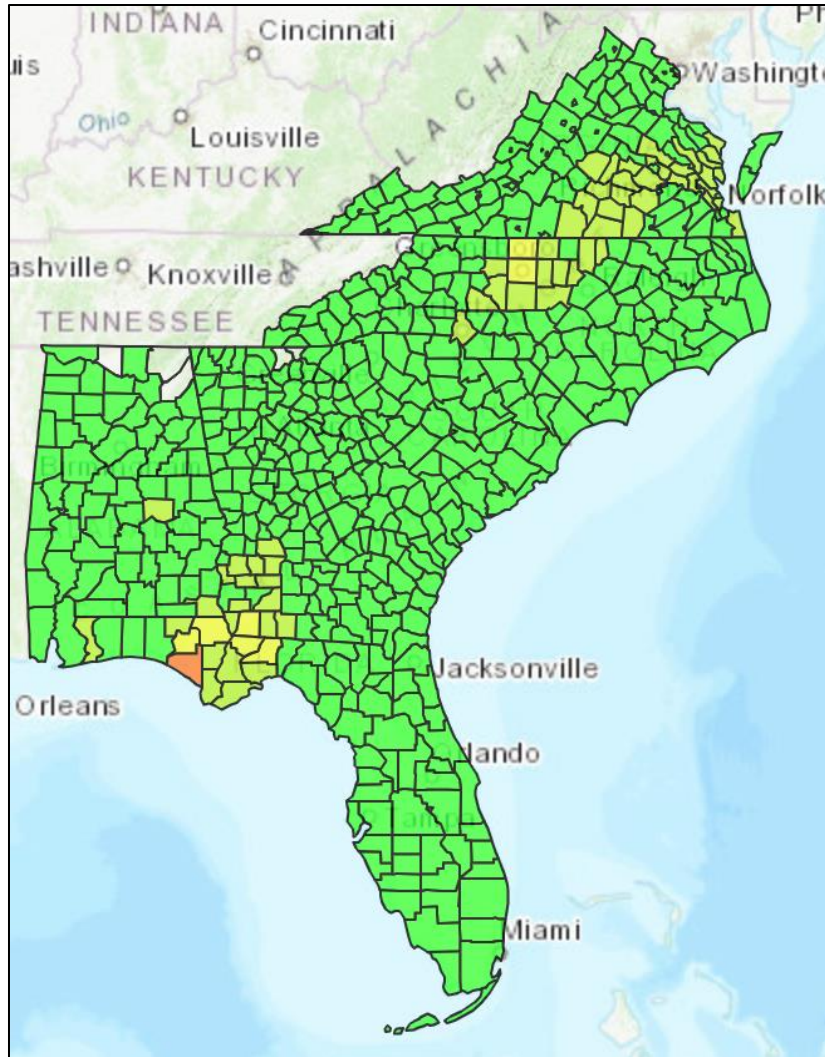
#### Oil & Natural Gas Sector Summary

- 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 6:00 AM October 14, 6.0% of Florida gas stations (including 39% of Florida Panhandle stations), 3.8% of Georgia gas stations, and 2.4% 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 8:00 AM EDT)**



<b>ELECTRICITY OUTAGES AS OF 7:00 AM EDT 10/14/2018</b>			
<b>Impacted State</b>	<b>Current Customers Outages</b>	<b>Percent of Total Customers in State without Power</b>	<b>24-Hour Peak Customer Outages</b>
Alabama	6,570	0.26%	14,252
Florida	200,762	1.98%	263,933
Georgia	152,724	3.23%	199,561
North Carolina	109,473	2.21%	238,005
South Carolina	15	0.00%	2,678
Virginia	84,245	2.24%	206,571
<b>Total</b>	<b>553,789</b>	<b>-</b>	<b>*</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 damage assessments and restorations in the hardest hit areas may be limited due to access constraints.
- 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.
- Fluctuation in the outage numbers is expected and normal during large-scale restoration efforts.

**Alabama**

<b>6,570</b> Customer Outages	↓ <b>37%</b> since Oct 13, 3:00 PM EDT	<b>14,252</b> 24-hr Peak Outages
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- **Significantly Impacted Utilities**
  - Wiregrass Electric Coop: 6,356 Customer Outages

**Florida**

<b>200,762</b> Customer Outages	↓ <b>19%</b> since Oct 13, 3:00 PM EDT	<b>263,933</b> 24-hr Peak Outages
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- **Significantly Impacted Utilities**
  - Gulf Power (Southern Company): 69,312 Customer Outages
  - Talquin Electric Coop: 29,909 Customer Outages
  - West Florida Electric Coop Association: 23,423 Customer Outages
  - Tallahassee Electric: 18,094 Customer Outages
  - Duke Energy Florida: 16,249 Customer Outages

**Georgia**

<b>152,724</b> Customer Outages	↓ <b>14%</b> since Oct 13, 3:00 PM EDT	<b>199,561</b> 24-hr Peak Outages
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- **Significantly Impacted Utilities**
  - Georgia Power: 25,161 Customer Outages
  - Mitchell EMC: 18,004 Customer Outages
  - Grady EMC: 11,879 Customer Outages
  - Sumter EMC: 7,243 Customer Outages

**North Carolina**

<b>109,473</b> Customer Outages	↓ <b>42%</b> since Oct 13, 3:00 PM EDT	<b>238,005</b> 24-hr Peak Outages
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- **Significantly Impacted Utilities**
  - Duke Energy: 173,965 Customer Outages
  - Energy United: 6,928 Customer Outages
  - Piedmont EMC: 5,548 Customer Outages

**South Carolina**

<b>15</b> Customer Outages	↓ <b>99%</b> since Oct 13, 3:00 PM EDT	<b>2,678</b> 24-hr Peak Outages
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- Outages in South Carolina are or below at pre-storm day-to-day levels.

**Virginia**

<b>84,245</b> Customer Outages	↓ <b>44%</b> since Oct 13, 3:00 PM EDT	<b>206,571</b> 24-hr Peak Outages
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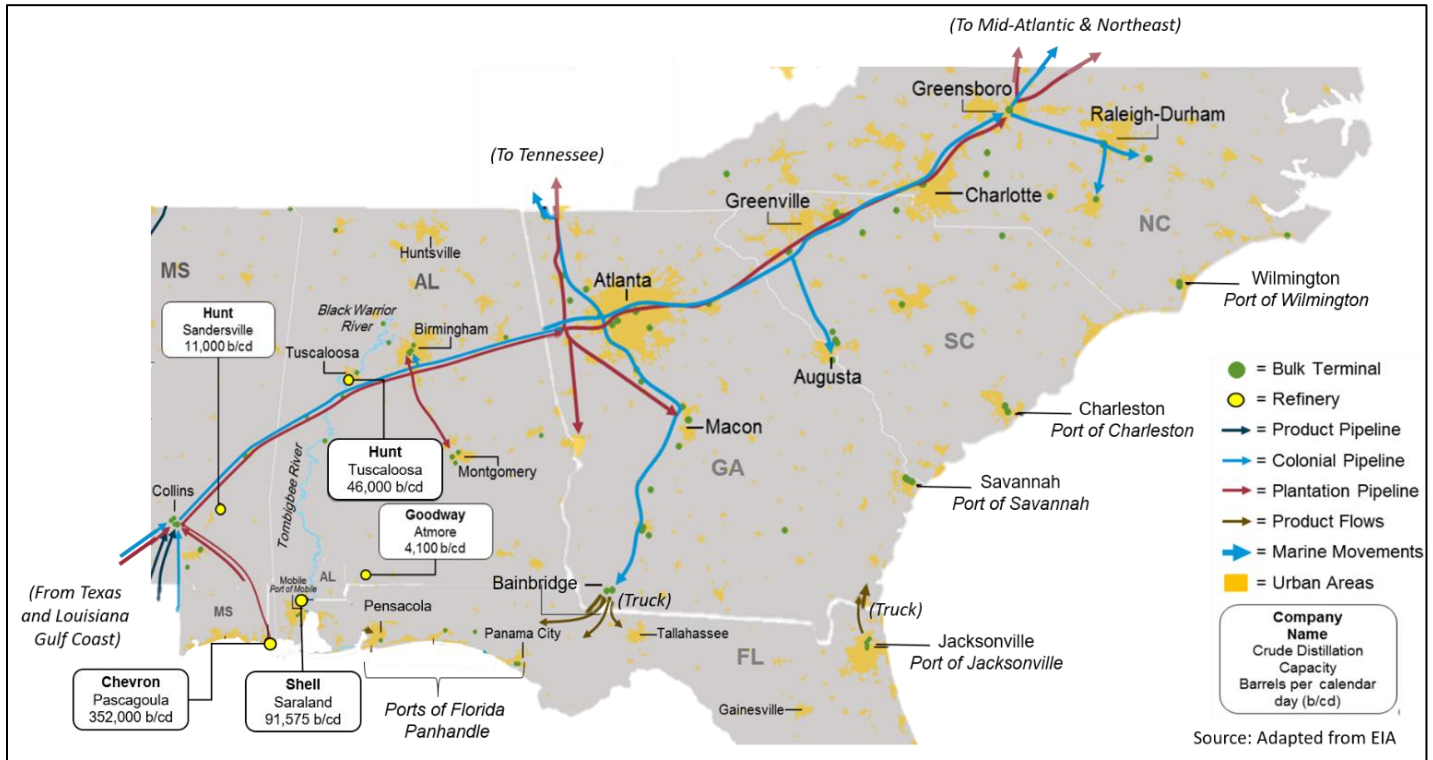
- **Significantly Impacted Utilities**
  - Dominion Power: 116,858 Customer Outages
  - VA Electric Cooperatives: 24,464 Customer Outages
  - Appalachian Power: 5,111 Customer Outages



## 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 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 10/13/2018		
Production	Pre-Event	Shut-In (10/12)
Crude Oil (b/d)	1,700,000	330,394
Natural Gas (MMcf/d)	2,560	247
Infrastructure	Pre-Event Count	Evacuated (10/12)
Manned Platforms	687	1
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 7:30 AM EDT 10/13/2018							
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	Open with restrictions.	10/12	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 6:00 AM October 14, 6.0% of Florida gas stations (including 39% of Florida Panhandle stations), 3.8% of Georgia gas stations, and 2.4% 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.** 86% of stations in Pensacola, 73% in Panama City, 80% in Tallahassee, 33% in Thomasville, 32% in Albany, and 51% 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	<u>FMCSA Regional Emergency Declaration</u>	10/09	11/09	Active
Florida*	<u>State of Emergency Declaration</u>	10/07	12/06	Active
South Carolina**	<u>State of Emergency Declaration</u>	10/08	11/07	Active
Alabama	<u>State of Emergency Declaration</u>	10/08	11/07	Active
Georgia*	<u>State of Emergency Declaration</u>	10/09	10/16	Active
North Carolina*	<u>State of Emergency Declaration</u>	10/10	Until Rescinded	Active
Kentucky	<u>State of Emergency Declaration</u>	10/10	11/10	Active
Virginia	<u>State of Emergency Declaration</u>	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	<u>Restriction on red-dyed diesel fuel for highway use.</u> 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.

