



# Hurricanes Maria & Irma

## November 6 Event Summary (Report #74)

<b>REPORT TIME &amp; DATE:</b>	12:00 PM EDT   November 6, 2017
<b>INCIDENT START DATE:</b>	Friday, August 25, 2017
<b>PRIMARY LOCATION(S):</b>	Puerto Rico & U.S. Virgin Islands
<b>REPORT DISTRIBUTION:</b>	Public

*The U.S. Department of Energy (DOE) will issue situation reports with updates about the response and recovery efforts in Puerto Rico and the U.S. Virgin Islands on Mondays and Thursdays.*

### EXECUTIVE SUMMARY

DOE continues to support response and restoration efforts for Hurricanes Maria and Irma. ESF #12 responders remain deployed to St. Thomas, St. Croix, and Puerto Rico in support of FEMA Incident Management Assistance Teams. ESF #12 responders are also deployed to the National Response Coordination Center and a team of 25 personnel from the DOE Western Area Power Administration are on St. Thomas to provide mutual aid. DOE has also deployed seven subject matter experts to provide technical assistance to the U.S. Army Corps of Engineers for restoration planning on Puerto Rico.

### Electricity Sector Summary (as of 10:30 AM EDT Monday)

- Puerto Rico: Approximately 42.2% of normal peak load has been restored and 39 of 78 municipalities are partially energized or have energized facilities. DOE continues to coordinate closely with FEMA, Puerto Rico, and the U.S. Army Corps of Engineers to support restoration efforts and facilitate industry support, including additional mutual aid as requested by PREPA.
- USVI: VIWAPA reports that approximately 11,113 customers across the USVI have been restored (23.6% of total customers). Approximately 70.25% of customers on St. Thomas, 82.39% of customers on St. Croix, and 83.72% of customers on St. John remain without power. Restoration efforts continue across the Territory, mainly focusing on the backbone feeders for the grid.

### Oil and Natural Gas Sector Summary (as of 10:30 EDT Monday)

- As of November 6, a total of 927 out of 1,100 retail gas stations are operational on Puerto Rico.
- Fuel stocks are adequate across the region; however, DOE continues to monitor the situation in coordination with the Energy Information Administration.

# Hurricane Maria

## ELECTRICITY SECTOR

### Puerto Rico

ESTIMATED ELECTRICITY OUTAGES AS OF 11:00 AM EDT 11/06/2017		
Impacted Territory	Current Estimated Customer Outages	Percent of Estimated Customers without Power
Puerto Rico	~907,342	~57.8%
<b>PR Total</b>	<b>~907,342</b>	<b>~57.8%</b>

*Note: Estimate number of customers without power is based on percent of average peak load restored. On November 1, PREPA indicated that it would take at least a month before the utility was able to directly provide customer outage information.*

- As of 11:00 AM EDT, November 6, Puerto Rico reported that restored load was 42.2% of normal peak load (approximately 1133 MW of 2,685 MW normal peak load).
- As of 11:00 AM EDT, November 6, DOE estimates 907,342 customers (57.8%) remain without power on Puerto Rico.
  - A total of 39 out of 78 municipalities on Puerto Rico are at least partially energized. A map listing of these areas is available at: [status.pr/Maps/Map/AEE](http://status.pr/Maps/Map/AEE).
- On November 5, PREPA reported 390 (35%) of Puerto Rico’s 1,112 transmission lines or line segments are functioning.
- On November 5, PREPA reported 181 (36.5%) of Puerto Rico’s 342 substations are functioning.
- DOE is coordinating with PREPA, FEMA, the U.S. Army Corps of Engineers (USACE), and industry to support restoration efforts, including providing technical subject matter experts and to felicitating mutual assistance.
  - On Monday, October 16, USACE awarded a contract to support transmission and distribution systems restoration efforts on Puerto Rico.
  - On Wednesday, October 18, USACE awarded a contract for the repair of the distribution system in the western region of Puerto Rico.
  - On October 31, PREPA formally requested mutual assistance from industry for restoration efforts across the Territory.



**U.S. Virgin Islands**

ELECTRICITY OUTAGES AS OF 7:02 PM EDT 11/03/2017		
Source: VIWAPA		
Impacted Territory	Current Customer Outages	Percent of Customers without Power
St. Thomas	17,738	70.25%
St. John	2,554	82.39%
St. Croix	15,714	83.72%
<b>USVI Total</b>	<b>36,006</b>	<b>76.42%</b>

*Note: As the extent of damage is confirmed and additional data becomes available, the baseline number of VIWAPA customers reported has been updated based on data from VIWAPA. DOE will continue to validate customer outage data as it is collected.*

- As of 7:02 PM EDT, November 3, the U.S. Virgin Islands Water and Power Authority (VIWAPA) reported approximately 36,006 (76.42%) customers remain without power within the territory.
  - On St. Thomas, 17,738 customers (70.25%) were reported to be without power.
  - On St. John, 2,554 customers (82.39%) were reported to be without power.
  - On St. Croix, 15,714 customers (83.72%) were reported to be without power.
- On St. Thomas, crews will work along Frenchman’s Bay Road toward Bakerroe and Bolongo. Other crews will perform reconstruction and restoration work along Smith Bay Road near Margaritaville, and in Estates Mandahl and Wintberg.
- On St. John, crews will work in the Fish Bay area, along the Northshore road, and from Bellevue to Giff Hill School.
- On St. Croix, crews will continue work in Hannah’s Rest, Frederiksted town as well as in Christiansted.
- Additional manpower, equipment, and supplies arrived in the territory over the weekend to augment the restoration efforts. There are now more than 500 off-island linemen equally divided between both districts assisting the restoration efforts.
- VIWAPA has removed electrical meters at locations where damage was apparent to either the meter base and/or weather head and reminding customer that the customer is responsible for ensuring repairs and inspection are complete, which is standard practice during a restoration. DOE is working with FEMA Public Affairs to help amplify the message to residents to ensure it does not delay restoration.

**OIL & GAS SECTOR**

**PORTS**

- The U.S. Coast Guard has reopened all ports that receive marine delivery of petroleum products in Sector San Juan (Puerto Rico and the U.S. Virgin Islands). Draft restrictions and daylight-only restrictions remain in place at several ports.



# Emergency Declarations & Waivers

## EMERGENCY DECLARATIONS

- On September 18, Puerto Rico and USVI declared emergencies due to Hurricane Maria. These declarations automatically waived select Federal Motor Carrier Safety Regulations (FMCSRs), including hours-of-service (HOS) regulations, for motor carriers hauling resources to aid in restoration. Some HOS waivers applied specifically to the movement of petroleum products in or through the state. On September 20, President Trump approved a major disaster declaration.
- On September 26, President Trump amended the Puerto Rico and U.S. Virgin Islands disaster declarations to authorize increased cost sharing to 100 percent Federal funding for debris removal and emergency protective measures beginning September 17. The declaration includes direct Federal assistance for 180 days from the start of the incident period and a 90 percent Federal cost share thereafter.
- The table below summarizes emergency declarations and hours of service (HOS) waivers issued by states and FMCSA. Please see earlier Situation Reports for details about waivers that have expired.

State Emergency Declarations and HOS Waivers <i>as of 10:00 AM EDT 11/06/2017</i>				
State	Details	Effective Dates		Status
		Start	End	
Regional (Multi-State)	Regional Emergency Declarations and FMCSR waivers issued by FMCSA. On October 4, the FMCSA extended the Regional Emergency Declaration for Puerto Rico, and the U.S. Virgin Islands.	Extended: 10/04	Extension to 11/06/17	Active
Puerto Rico	State of Emergency	Extended: 09/18/17	--	Active
U.S. Virgin Islands	State of Emergency	Extended: 09/18/17	--	Active

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



**FUEL WAIVERS**

- The table below lists fuel-related waivers issued by the U.S. Environmental Protection Agency (U.S. EPA). Waivers that have expired have been removed from the table. Please see earlier Situation Reports for any needed details about waivers that have since expired.

Fuel Waivers as of 10:00 AM EDT 11/06/2017					
State	Waiver	Issued By	Effective Dates		Status
			Start	End	
Puerto Rico	<b>Sulfur content requirement</b> of 15 ppm waived. Permits the sale, distribution and use of higher sulfur heating oil and ECA marine fuel. EPA extended the waiver as it applies to mobile non-road generators or pumps used for emergency purposes.	U.S. EPA	09/26/17 Extended: 10/11/17 10/27/17	10/15/17 Extended: 10/30/17 11/15/17	Active

Sources: U.S. Environmental Protection Agency; State Governments

**OTHER WAIVERS**

- **Department of Transportation (DOT)**
  - On September 20, PHMSA issued an Emergency Stay of Enforcement for pipeline operators that may be affected by Maria. PHMSA will not take enforcement action relating to operator noncompliance with certain operator qualification requirements, or pre-employment and random drug testing requirements, arising from the use of personnel for pipeline activities related to response and recovery. The waiver took effect on September 20 and will expire on November 4.
- **Environmental Protection Agency (EPA)**
  - On September 22, the EPA announced that it will exercise enforcement discretion for mobile power generators being imported into the United States that will be used as emergency sources of power in Puerto Rico as a result of Hurricane Maria. EPA will not pursue enforcement actions for certain violations of the Clean Air Act for mobile power generators being imported for use in Puerto Rico that have not been certified to meet U.S. pollution control standards. This covers mobile power generators that are imported for use in Puerto Rico until January 31, 2018.

