



Hurricanes Maria & Irma

March 28 Event Summary (Report #97)

REPORT TIME & DATE:	12:00 PM EST March 28, 2018
INCIDENT START DATE:	Friday, August 25, 2017
PRIMARY LOCATION(S):	Puerto Rico & U.S. Virgin Islands
REPORT DISTRIBUTION:	Public

The U.S. Department of Energy (DOE) will be discontinuing weekly Situation Reports related to Hurricanes Maria & Irma on April 4, 2018. DOE will continue to provide updates on any significant issues as appropriate. Information on current electricity restoration progress in Puerto Rico can be found at [Status.PR](#) or the official Twitter page of the U.S. Army Corps of Engineers [@USACEHQ](#).

EXECUTIVE SUMMARY

The U.S. Department of Energy (DOE) continues to support restoration and recovery efforts related to Hurricanes Maria and Irma. In Puerto Rico, DOE continues to provide support to FEMA. Subject matter experts from the DOE Power Marketing Administration remain deployed to provide technical assistance to the U.S. Army Corps of Engineers and DOE has deployed a responder to Puerto Rico under the National Disaster Recovery Framework to support the FEMA recovery mission and development of a Federal Recovery Plan. DOE currently anticipates that subject matter experts will remain deployed through the end of May 2018 to support restoration efforts.

Electricity Sector Summary (as of 11:00 AM EST Wednesday)

- Puerto Rico: PREPA reports that 90.1% of normal peak load and 94.56% of customers (1,392,902) have been restored and all 78 municipalities are at least partially energized. Approximately 80,000 customers remain without power.

Oil and Natural Gas Sector Summary (as of 11:00 AM EST Wednesday)

- As of March 28, a total of 970 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.

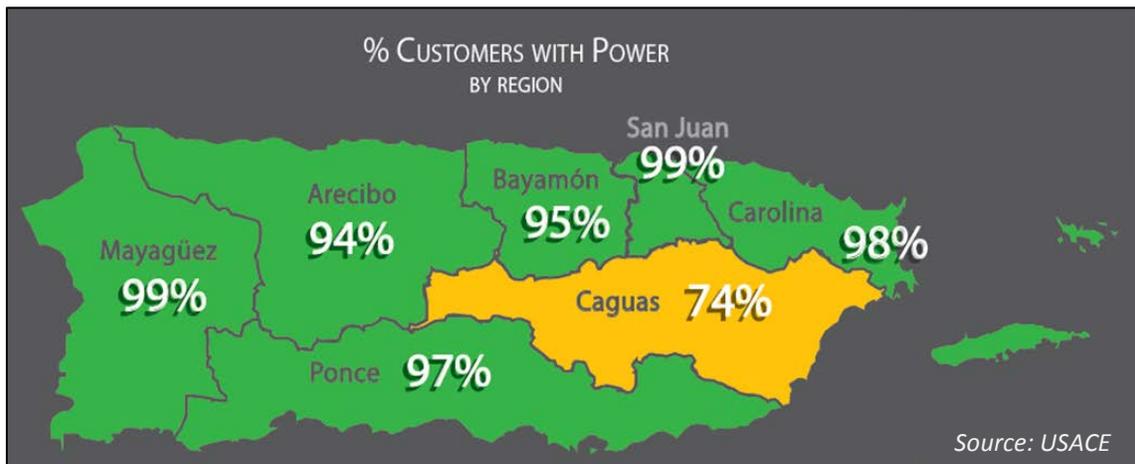
ELECTRICITY SECTOR

Puerto Rico

ESTIMATED ELECTRICITY OUTAGES AS OF 11:00 AM AST 03/28/2018				
Impacted Territory	Instant Maximum Production (MW)	Total Average Peak Load Percentage of Pre-Storm Capacity	Estimated Total Customer Outages	Percent of Total Customers without Power*
Puerto Rico	2,258	90.1%	~80,100	5.44%

Note: The Puerto Rico Electric Power Authority (PREPA) has begun to report on the number of customers restored.

- Per deployed DOE subject matter experts, on the evening of March 18, PREPA experienced a cyber incident on a business networks, which currently appears to be ransomware. Customer data and operational systems are not believed to be impacted at this time. DOE has reached out to PREPA to offer making arrangements for technical assistance, if requested, and is coordinating with the DHS National Cybersecurity & Communications Integration Center and FBI National Cyber Investigative Task Force. PREPA has been in contact with the FBI field office in San Juan regarding the incident, but has not requested technical assistance.
- On March 28, Puerto Rico reported that restored load was 90.1% of normal peak load
- On March 28, PREPA reported that 94.56% of customers (1,392,902) have power, which leaves 5.44% of customers (~80,100) remaining without power.
- On March 27, PREPA reported 71.4% of their 56 transmission centers are functioning.
- On March 27, PREPA reported 94.4% of Puerto Rico’s 342 substations are functioning.
- On March 27, USACE reported a total of 2,922 workers are assisting with restoration efforts.
- PREPA, the U.S. Army Corps of Engineers (USACE), and industry continue to work to ensure that materials are procured and delivered as quickly as possible to prevent delays.
- DOE has been coordinating with PREPA, FEMA, USACE, and industry to support restoration efforts, including providing technical subject matter experts and facilitating mutual assistance.



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. 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 EST 03/28/2018</i>				
State	Details	Effective Dates		Status
		Start	End	
Regional (Multi-State): Florida, Puerto Rico, U.S. Virgin Islands	This extension of the Regional Declaration of Emergency addresses ongoing emergency conditions creating a need for immediate transporting of supplies and equipment into the Affected States and jurisdictions or transporting persons into or from the Affected States and jurisdictions or providing other assistance in the form of emergency services during the emergency in the Affected States and jurisdictions resulting from Hurricanes Irma, Jose and/or Maria.	09/06/2017	Extension: 03/08/18	Expired
Puerto Rico	State of Emergency	Extended: 09/18/17	--	Active
U.S. Virgin Islands	State of Emergency	Extended: 09/18/17	Extension: 02/02/18	Expired

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



FUEL WAIVERS

- There are currently no active fuel specification waivers issued by the U.S. Environmental Protection Agency (U.S. EPA). Please see earlier Situation Reports for any needed details about waivers that have since expired.

OTHER WAIVERS

- **Department of Transportation (DOT)**
 - There are currently no active U.S. DOT or the Pipeline and Hazardous Materials Safety Administration (PHMSA) waivers. Please see earlier Situation Reports for any needed details about waivers that have since expired.
- **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 discretion covered mobile power generators that were imported for use in Puerto Rico until January 31, 2018.
 - On November 21, the EPA extended enforcement discretion for PREPA facilities that had been impacted or damaged by Hurricane Maria through January 31, 2018. The action extended a “no action assurance” issued by EPA on October 6 that provided the utility relief from some Clean Air Act permit conditions and permitting requirements, including emission limits, hours of operation limits, fuel usage restrictions, and restrictions on the shutdown or bypass of pollution control equipment for most of their electric generating units operating in Puerto Rico. This enforcement discretion has expired.

