



***Puerto Rico Incident Management Team (IMT)  
Hurricane Maria***

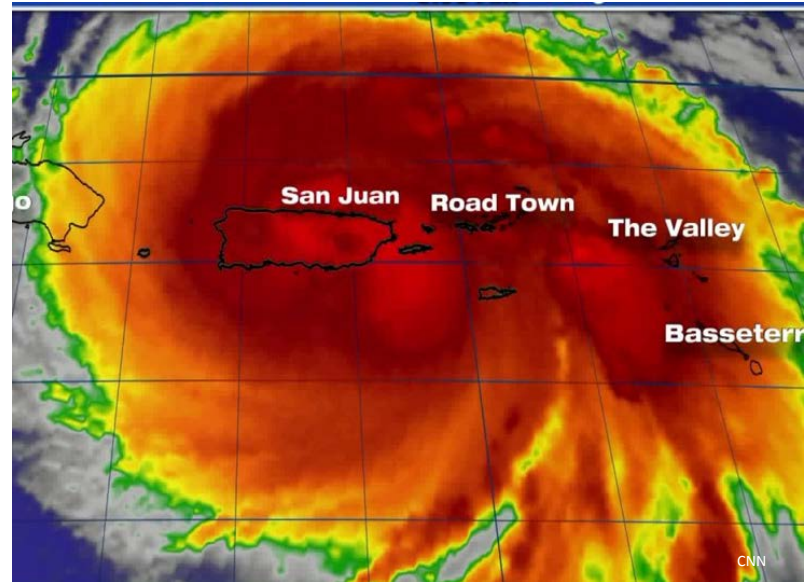
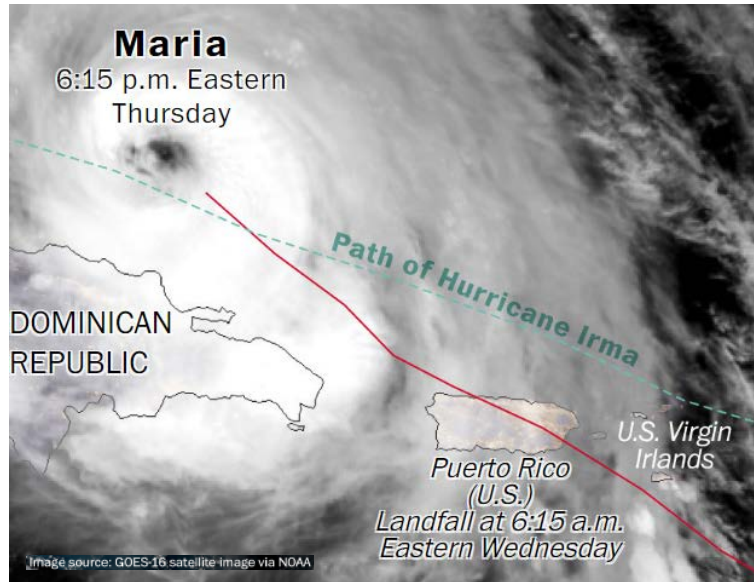


Danny Ee  
Director, Smart Grid & System Operations

Paul Vasquez  
Superintendent, System Operations

April 25, 2018

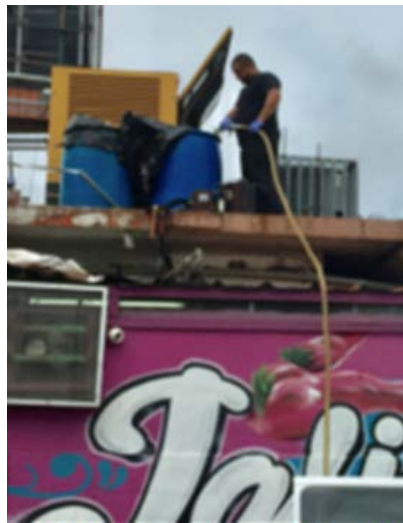
# Hurricane Maria



- Sept 6<sup>th</sup> Hurricane Irma hits the island
- Maria makes landfall on September 20<sup>th</sup> as a Category 4
- Most powerful hurricane in over 80 years
- Catastrophically damaged the power grid impacting 3.4 million residents
- Puerto Rico Electric Power Authority (PREPA) requested Mutual Assistance Oct 31<sup>st</sup>



# The Devastating Effects







# The Challenges

- **Widespread Outage** - Only 20% restored
- **An Island** – Everything has to be shipped in
- **Mobilization**
  - Materials & Equipment
  - Restoration Crews
- **Coordination & Planning**
  - Unified Incident Command Structure
  - Accurate Damage Assessments
- **Country Infrastructure**
  - Damaged Roadways
  - Water Supply
  - Fuel
- **Adverse Driving Conditions**







# The Mission and Plan

## Puerto Rico Incident Management Teams





# What We Did



## Austin Energy Personnel helped to safely restore the power grid through:

- Fostering relationships with PREPA, USACE, Utility, and Contractors
- Protecting cultural, historic, and natural resources
- Coordinating Planning, Operations, Logistics, and Safety
- Assisting in Public Outreach
- Providing Financial Accounting

*PREPA – Puerto Rico Electric Power Authority  
USACE – United States Army Corp of Engineers*





# Austin Energy Personnel Supporting Puerto Rico

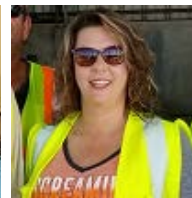
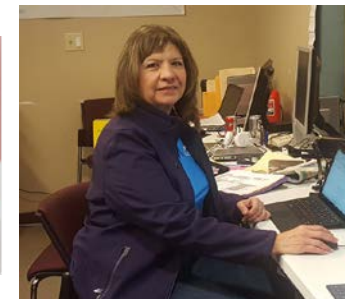
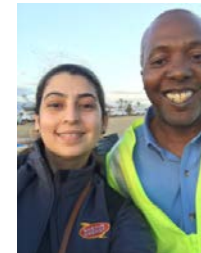
Wave #1     Danny Ee – Planning Section Chief  
               Paul Vasquez-Logistics Section Chief  
               Luis Rivas-Public Information/Logistics Support

Wave #2:     Shane Cooper – Planning Situational Lead  
               David Teltow – Logistics Chief  
               Victor Carr – Operational Technology Assistance

Wave #3:     Shane Cooper – Operations Chief  
               Darren Vicknair – Switching Coordinator  
               John Bell – Feeder Restoration Supervisor  
               Clay Hammack – Production Lead (Contractor)  
               Victor Carr – Operational Technology Assistance

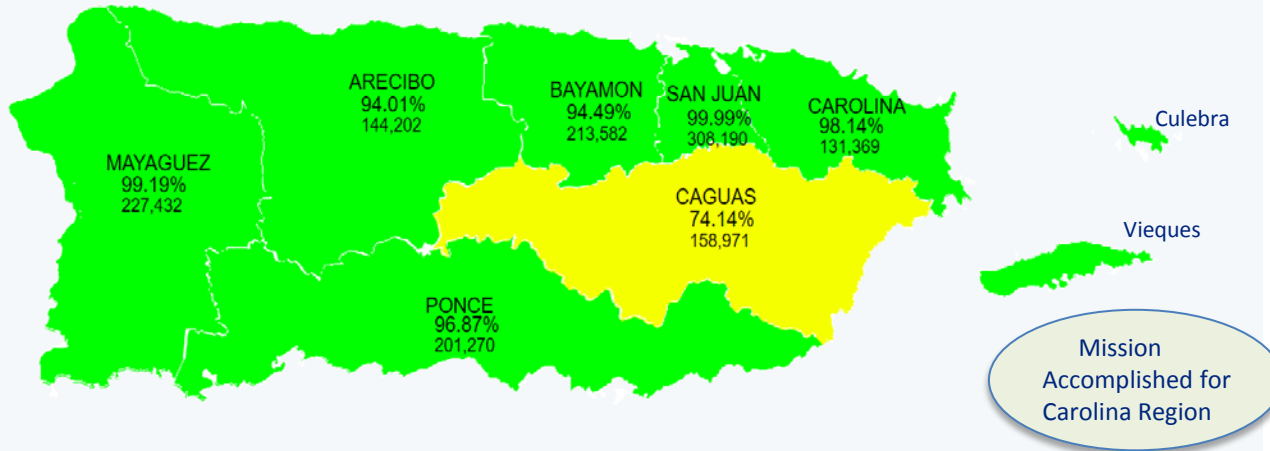
Wave #4:     John Bell – Logistics Chief  
               Alan Shufield – Production Lead  
               Brian Cokeley – Planning Situational Lead  
               Victor Carr - Operational Technology Assistance

Finance Support:  
               Catherine Ross-Lowe  
               Maria (Belle) Williams  
               Shierin Shoghi  
               Juan Mireles  
               Eddie Washington





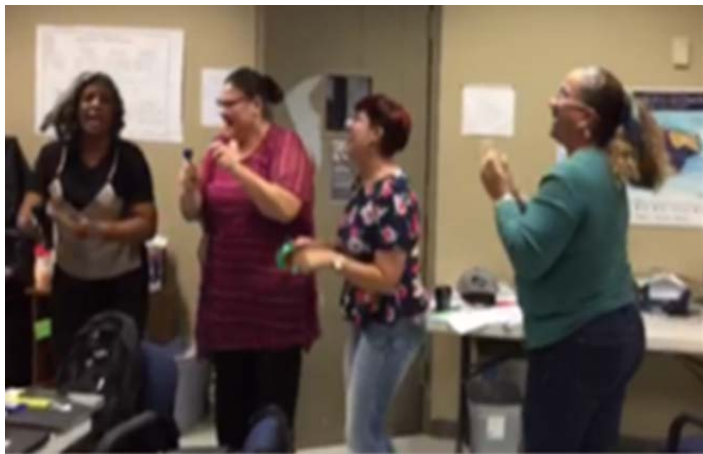
# Mission Accomplished



98% restored!

Shifted to Caguas Region

Returned Mid-April







# We Are Prepared

**Getting the Power Back on in Hard-Hit Areas**  
Austin Energy responds to Harvey, Irma. [Learn More](#)

► **Our Current Power Generation Mix**  
Renewable energy relies upon available wind and sunshine. See today's generation mix. [Learn More](#)

► **Save Money. Save Energy.**  
We offer year-round rebates and incentives to help offset the cost of making energy-efficiency improvements to your home or business. [Learn More](#)

► **City of Austin Utilities Online**  
[Log In](#)  
• Pay your bill securely  
• Start or manage your services  
• View eBills  
• Track your usage

## Austin Energy's Incident Command Team Preparing for Hurricane Harvey

*Austin Energy's MISSION*

*To safely deliver clean, affordable, reliable energy and excellent customer service*