Where is the money?
Federal Dollars for Improving Energy Infrastructure Resilience

Presented by Marty Altman
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Federal Emergency Management Agency

+ Pre-disaster Mitigation Grants (PDM)
+ Public Assistance (PA)
+ Eligible Utilities (Sub Recipients)
  ○ Power Generation
  ○ Transmission and Distribution Systems (Substations, Overhead and Underground Powerlines, Solar Systems, Wind Turbines)
  ○ Natural Gas Transmission and Distribution
  ○ Sewage Collection Systems and Treatment Plants
  ○ Communication Systems
Housing and Urban Development

- Community Development Block Grant Disaster Recovery (CDBG-DR)
- Community Development Block Grant-Mitigation (CDBG-MIT)
  - CDBG-MIT funding was released in August 2019
- Eligible activities include housing, infrastructure and economic revitalization
- Energy resilience and infrastructure repair
FEMA, CDBG and the Recovery Continuum

Preparedness and Mitigation (ongoing)

Disaster

FEMA PA

CDBG-MIT
FEMA PDM

CDBG-DR

Short Term (days)
Intermediate (Weeks—Months)
Long-Term (Years)

Scope and Scale of Disaster and Recovery

Adapted from the National Disaster Recovery Framework, DHS, 2016
## Types of Funded Activities

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<th>FEMA PDM</th>
<th>FEMA PA</th>
<th>CDBG-DR and MIT</th>
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| • Utility protection and infrastructure retrofit  
• Resiliency studies and planning | • Emergency Preparations  
• Emergency Restorations  
• Permanent Repairs  
• Codes and Standards Development  
• Mitigation activities for hardening systems | • Repair and update electrical grid  
• Solarization  
• Energy resilience investments  
• Mitigation activities for hardening systems |
Disaster Recovery Reform Act of 2018

+ **Section 1205:** Expands the use of HMGP PDM Grants to be used for wildfire and windstorm mitigation activities

+ **Section 1206:** Authorizes assistance for building and construction codes implementation/enforcement

+ **Section 1208:** Directs FEMA to develop guidance and training for state and local governments, first responders and utility companies on prioritizing services in the event of a disaster.

+ **Section 1234:** Creates the Building Resilient Infrastructure and Communities (BRIC) program
# Successful Examples: FEMA Funding

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<tr>
<th>BRUNSWICK ELECTRIC MEMBERSHIP COOPERATIVE, NORTH CAROLINA</th>
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<td>+ ICF developed a conclusive model that demonstrated the cost effectiveness of a hazard mitigation project to bury the overhead power lines using Section 406 funding.</td>
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<td>+ Benefits included minimizing the risk of damages to the electrical lines and reducing the risk of electrical service interruption from future events.</td>
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<th>PSEG LONG ISLAND / LONG ISLAND POWER AUTHORITY, NEW YORK</th>
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<td>+ ICF serves as Project Manager for PA’s recovery and storm hardening project. This project is a $1.4 bn grant with $729 million for hazard mitigation.</td>
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<td>+ The goal of the mitigation project to storm harden 1,025 miles of the vulnerable mainline overhead distribution system is to achieve a 20% reduction of loss services and a 29% reduction in physical damages resulting from future events.</td>
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ICF Technical Assistance for Potential Solar + Storage Resiliency Pilots at Puerto Rico Public Housing

1. Property Visits & Data Collection
2. Techno-Economic Feasibility Analysis of Property Portfolio
3. Validate Pilot Sites & Tailor Approach with Stakeholders
4. Draft Technical & Economic Specifications for Pilots
5. Provide Guidance Related to HUD Environmental Reviews
Thank you

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