



Where is the money?

Federal Dollars for Improving Energy Infrastructure Resilience

Presented by Marty Altman

September 17, 2019





FEMA





Federal Emergency Management Agency

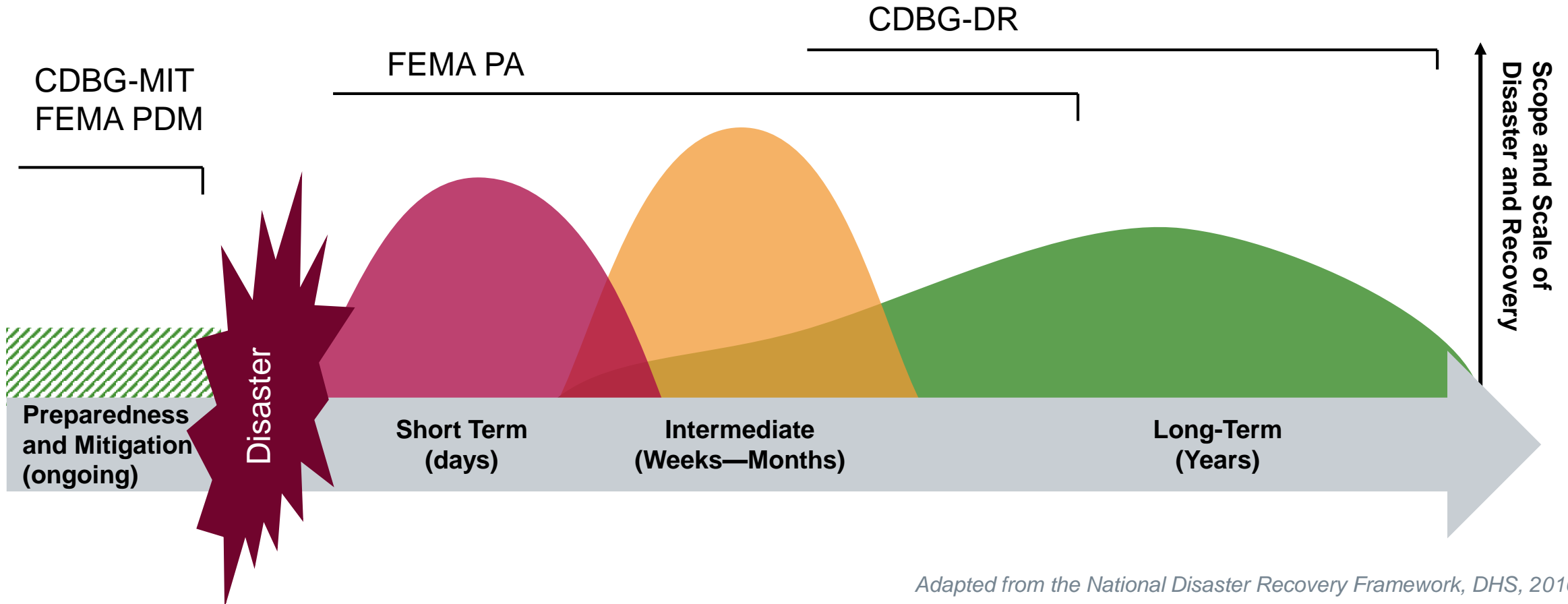
- + Pre-disaster Mitigation Grants (PDM)
- + Public Assistance (PA)
- + Eligible Utilities (Sub Recipients)
 - Power Generation
 - Transmission and Distribution Systems (Substations, Overhead and Underground Powerlines, Solar Systems, Wind Turbines)
 - Natural Gas Transmission and Distribution
 - Sewage 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)
 - o 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



Adapted from the National Disaster Recovery Framework, DHS, 2016

Types of Funded Activities

FEMA PDM

- Utility protection and infrastructure retrofit
- Resiliency studies and planning

FEMA PA

- Emergency Preparations
- Emergency Restorations
- Permanent Repairs
- Codes and Standards Development
- Mitigation activities for hardening systems

CDBG-DR and MIT

- 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 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

BRUNSWICK ELECTRIC MEMBERSHIP COOPERATIVE, NORTH CAROLINA

- + 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.
- + Benefits included minimizing the risk of damages to the electrical lines and reducing the risk of electrical service interruption from future events.

PSEG LONG ISLAND / LONG ISLAND POWER AUTHORITY, NEW YORK

- + 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.
- + 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

ICF Technical Assistance for Potential Solar + Storage Resiliency Pilots at Puerto Rico Public Housing





Thank you

Marty Altman: martin.altman@icf.com, (407) 967-1950

Paul Vrabel: paul.vrabel@icf.com, (703) 934-3777