



December 7, 2016 Water Security Division



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## Resilience Mitigation Financing: Webinar Agenda

- EPA's Role
- Definitions and How to Connect into Mitigation Process to get Funding
- Case Studies: Financing Mitigation for Utilities in UT & FL
- EPA Tools on Resilience Mitigation Financing
- Q&A

## **SEPA**

### **EPA's Role**

- Water Security Division
  - o supports resilience of water/wastewater sector to all hazards
  - works with partners (e.g., EPA, FEMA, State Primacy, State Hazard Mitigation Offices, locals, utilities)
  - o supports policies to fund disaster resilience and mitigation
  - o develops tools and trainings to help get Mitigation Funding

www.epa.gov/waterresilience



## EPA's Role (continued)

- State Revolving Funds
  - o Clean Water & Drinking Water SRFs
  - Low interest loans for utilities for various purposes and more recently emphasizing disaster resilience
- Water Infrastructure and Resilience Finance Center

# Water Infrastructure and Resiliency Finance Center





The Water Finance Center is an **information and assistance center**, helping communities make informed decisions for **drinking water**, **wastewater**, and **stormwater infrastructure** to protect human health and the environment.





## Water Finance Center: Select Activities

- Looking at Alternative Infrastructure Delivery Approaches
  - Partnering with infrastructure exchanges
  - Working with UNC Env. Finance Center on a P3 Case Studies Report (January)
- National Drought Resilience Partnership
  - A presidential directive to coordinate federal agency response with state / local government
  - Responsible for leading rollout of market based infrastructure innovations that can support drought resilience investment
- Hosting Regional Finance Forums
  - California Stormwater Finance Forums April 2017 (LA and Bay Area)
- Water Finance Clearinghouse Summer 2017
- Working with stakeholders on financial leadership opportunities for economically challenged communities
- WaterCARE
  - Providing direct technical assistance to 10 communities
- https://www.epa.gov/waterfinancecenter



## **Definitions and How to Connect into Mitigation Process to Get Funding**

## **SEPA**

## **Definitions**

- <u>Resilience</u> ability of water and wastewater utilities to withstand a disaster, minimize damage and rapidly recover from disruptions to service
- <u>Mitigation</u> utility actions or equipment to reduce or prevent damage or service disruptions, thereby building resilience
- <u>Financing</u> approaches to fund resilience through implementing mitigation measures

## **Why Mitigate Hazards?**

- Cost-effective
  - Floods \$1 to \$5
  - o Wildfire \$1 to \$5
  - o Earthquake \$1 to \$1.5
- Better withstand disaster and recover quicker
- Assure customers

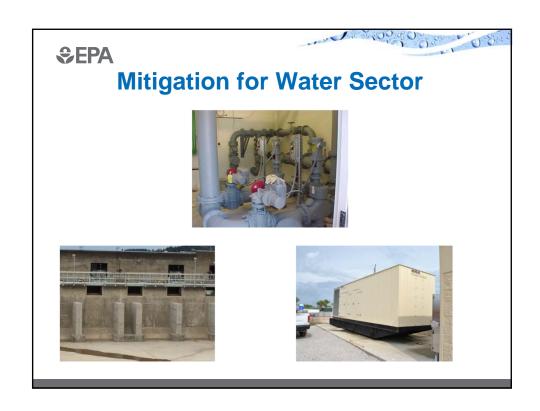
## **\$EPA**

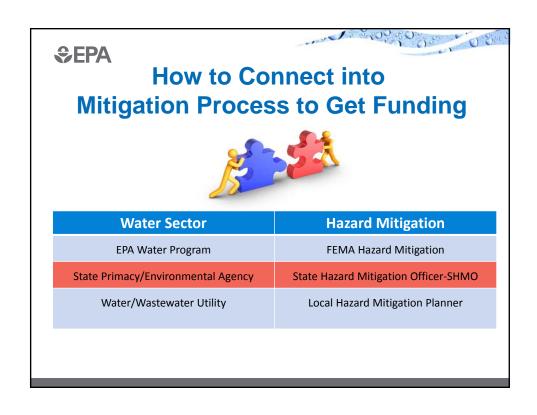
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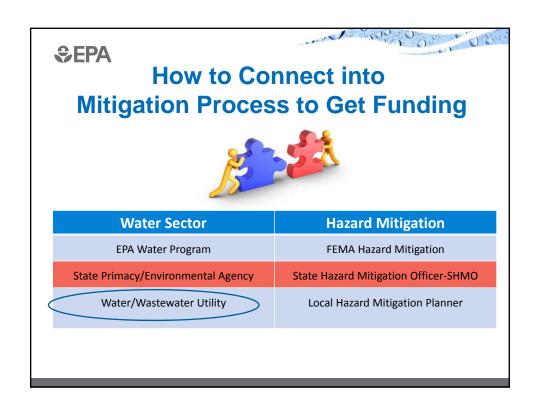
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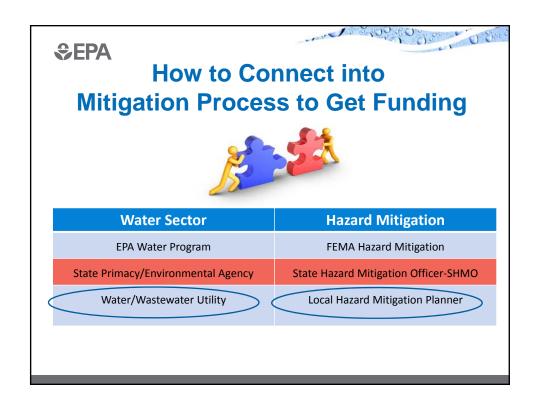


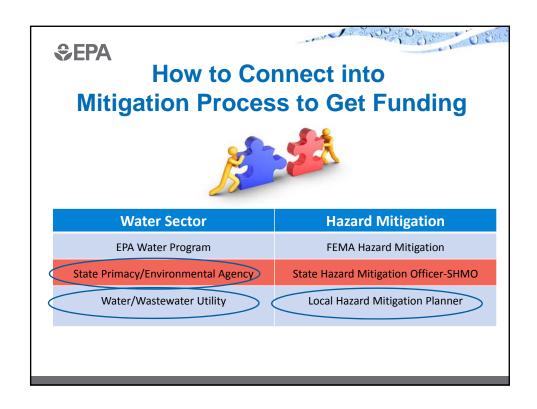
Mitigation Example

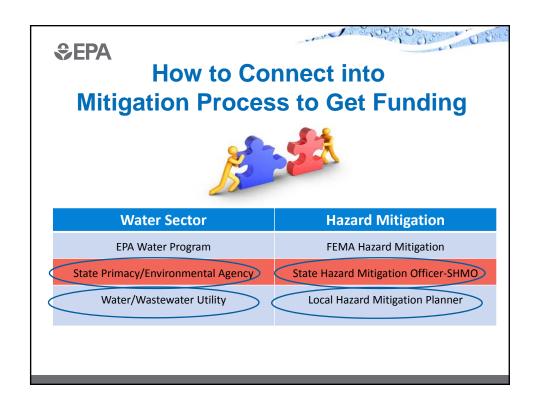


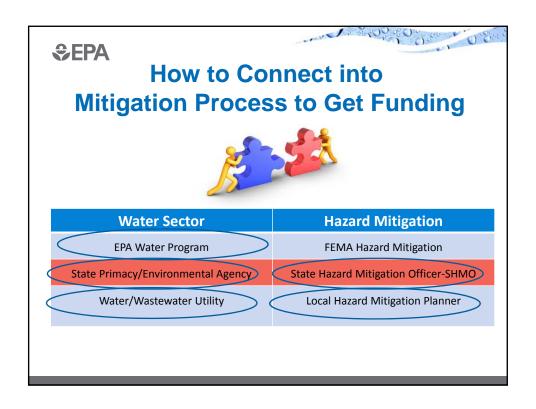


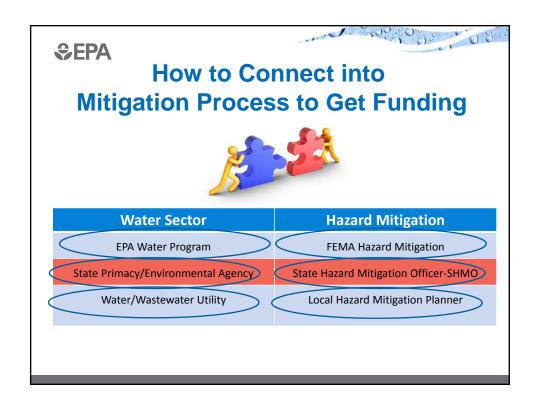
























## **Highlights of "Fund Projects" Page**

- There are several federal funding programs for mitigation
- Success requires diligence, a strong project, connections with local mitigation planner, and a thorough application

#### FEMA's Mitigation Funding Programs

- Public Assistance
- Hazard Mitigation
- o Pre-Disaster Mitigation
- Flood Mitigation

Requires Benefit-Cost Analysis

Provides 75% federal and 25% State/Local match

EPA's Fed FUNDs









## **Poll #4**

## **SEPA**

## **EPA Tools on Resilience Mitigation Financing**

#### Connects Utilities to Funding

- Hazard Mitigation for Natural Disasters: A Starter Guide
- Fed FUNDs
  - <u>Fed</u>eral <u>Funding for <u>U</u>tilities -Water/Wastewater - in <u>N</u>ational <u>Disasters</u>
    </u>

## Mitigation Ideas, Case Studies, and Best Practices

- Flood Resilience Guide
- Drought Resilience Guide
- Power Outage Resilience Guide
- Earthquake Resilience Guide (next year)

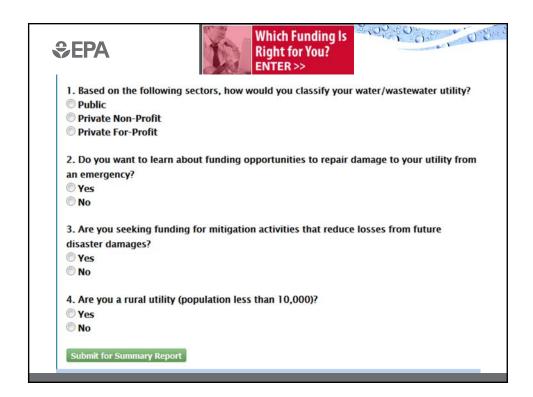
## **SEPA**

## Fed FUNDs

- · Guides utilities to applicable disaster funding opportunities
- · Provides past successful funding applications from utilities
- Lists funding mentors
- · Provides forms to document damage and costs



epa.gov/fedfunds





### Federal Disaster Funding Summary Report

3. You said that you are seeking funding for mitigation activities that reduce losses from future disaster damages.

FEMA has Hazard Mitigation Assistance (HMA) grants to help communities become resilient. They fund mitigation projects before a disaster occurs (pre-disaster) or after a disaster to prevent future damage (post-disaster). Consider these grants:

FEMA Program*	Description
Public Assistance (PA) Grant Program.	Provides grants to repair damage after a Presidential Disaster Declaration. Also, may be used to upgrade damaged parts of a facility to mitigate impact from future disasters (e.g., raise replaced equipment above flood levels).
Hazard Mitigation Grant Program	Provides grants for long-term hazard mitigation measures after a Presidential Disaster Declaration. During reconstruction, may be used to upgrade undamaged parts of a facility that remain at risk.
Pre-Disaster Mitigation Program	Provides planning grants to reduce overall risk to the population and structures from future hazard events or annual projects for water utilities.
Flood Mitigation Assistance Program	Provides grants to reduce or eliminate risk of flood damage to facilities that are insured under National Flood Insurance Program.

EPA has two State Revolving Funds (SRFs): the Drinking Water SRF and the Clean Water SRF. The SRFs, administered by the states, can support mitigation or post-disaster recovery and rebuilding projects.





#### Overview of Federal Disaster Funding Programs

Overview of Programs

FEMA Public Assistance

FEMA Mitigation Programs

USDA Emergency Water Grants

EPA State Revolving Funds **HUD Community** Grants

SBA Loans



Below are short descriptions of federal disaster funding programs from FEMA, USDA, EPA, HUD, and SBA. The descriptions are followed by a table of eligible uses for each funding program, including planning, construction, operations and maintenance.

#### FEMA Public Assistance (PA) Grant Program

Following a Presidentially-Declared Disaster, FEMA's Public Assistance Grant Program provides supplemental federal disaster grant assistance for emergency and permanent repair, replacement, or restoration of disaster-damaged facilities. Emergency work includes debris removal and disposal and removal and demolition of unsafe structures. Permanent work includes repair, replacement, or restoration of disaster-damaged facilities to pre-disaster design. The program applies to publicly owned water and wastewater utilities or private nonprofit utilities (e.g., cooperatives), but does not cover private, for-profit drinking water or wastewater utilities.

As part of the Public Assistance Grant Program, FEMA would consider hazard mitigation proposals that would eliminate or reduce future damages similar to those that East Valley Water District in California obtained occurred during the current Presidentially- Declared Disaster. For example, for a Presidentially-Declared Disaster that flooded a culvert and washed out a road,

#### East Valley Water District

reimbursement of more than \$400,000 from FEMA Public Assistance Grants for disaster response to the Old Fire in the San Bernardino National Forest in October 2003.



## **Utility Examples**

Training

Assistance - Mentors and Technical Contacts

**Utility Examples** 

- Portland Water Bureau FEMA Pre-Disaster Mitigation for Conduits
- Metro Water Services (Nashville), FEMA Public Assistance Mitigation Proposal for 2010 Flooding
- East Valley Water District: FEMA Public Assistance Mitigation Applications for Flood Damage in 2010
- Examples of 16 Successful FEMA Mitigation Projects for Water/Wastewater Utilities

## **ŞEPA**

## **Questions and Answers**

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