Massachusetts Municipal Vulnerability Preparedness (MVP) Program

An Overview

- Brief Program History
- Grant Opportunities
- MVP Core Principles
- Criteria for action grants

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A full list of municipalities and regions can be found [here](#).
### WHY MVP?

*The Climate is Changing - by end of century:*

#### RISING TEMPERATURES
- 10.8°F increase in avg annual temp.
- Up to 64 fewer days/year with min. temperatures < 32°F
- Up to 64 more > 90°F days/year

#### CHANGES IN PRECIPITATION
- 18% increase in consecutive dry days
- 57% increase in days with > 1 in. rainfall
- 7.3 inches additional annual rainfall

#### SEA-LEVEL RISE
- 4- to 10.5-feet along the MA coast

#### EXTREME WEATHER
- Increase in frequency and magnitude

Climate Change Clearinghouse for the Commonwealth - [http://www.resilientma.org/data/data](http://www.resilientma.org/data/data)
Climate resilience is the ability of a community to address the needs of their built, social, and natural environment to anticipate, cope with, and rebound stronger from events and trends related to climate change hazards.

Resilient communities don’t just recover—they continuously build capacity to reduce the impacts of future climate events.
• Comprehensive approach to reduce GHG emissions to combat climate change and prepare for the impacts of climate change
  • State Adaptation Plan
  • Climate Coordinators
  • Agency Vulnerability Assessments
  • Municipal Support

• $2.4 billion bond bill with focus on climate change resiliency
• Over $200 million authorized for climate change adaptation
• Codifies EO 569, including the MVP Program
BUILDING CLIMATE RESILIENCE IN THE COMMONWEALTH

CLIMATE MITIGATION
(GWSA & Green Communities)
- Energy conservation & efficiency
- Increased renewables in electric grid
- Onsite renewable energy
- Sustainable transportation / improved fuel efficiency
- Capture and use of landfill and digester gas
- Carbon sinks

CLIMATE ADAPTATION
(EO 569 & MVP)
- Water/energy conservation
- Microgrids
- Strategic electrification
- Storage for peak demand response
- Resilience hubs
- Risk & vulnerability assessments
- Structure retrofit/relocation
- Culvert upgrades
- Dam removal
- Adaptive resource management
- Land acquisition

HAZARD MITIGATION
(SHMCAP, MEMA/FEMA)
- Dry floodproofing
- Dam rehabilitation
- Slope stabilization
- Removal or reduction of flammable vegetation
- Generators for critical facilities

CROSS-CUTTING STRATEGIES:
- Smart Growth
- Community Outreach, Engagement and Education
- Building Code Updates (including development, enforcement, and public education)
- Green infrastructure
- Evaluating adoption and/or implementation of bylaws/ordinances that reduce risk and increase resilience
BUILDING CLIMATE RESILIENCE IN THE COMMONWEALTH

State and local partnerships

State Hazard Mitigation & Climate Adaptation Plan

Mission Statement:
Reduce the statewide loss of life, and protect natural resources, property, infrastructure, public health, and the economy from natural hazards and climate change impacts through the development of a comprehensive and integrated hazard mitigation and climate adaptation plan.

http://resilientma.org/shmcap-portal/index.html#
http://www.resilientma.org/shmcap-portal/index.html#/action-team

Municipal Vulnerability Preparedness Program

Providing funding for cities and towns across the state plan for climate change impacts and build more resilient communities.

https://www.mass.gov/mvp
**MVP Planning Grant**

RFR currently open; Rolling until August 2020
$15,000- $100,000 per plan completed by 6/30/2021
$1M available

**MVP Action Grant**

RFR currently open; Applications due June 11, 2020
Open to MVP communities
$25,000- $2M per project, completed by 6/30/2021 or 6/30/2022
$10M available
Applying for an MVP Action Grant is a competitive process. The Program aims to fund work that best demonstrates these eight Core Principles.

1. Furthering a community identified priority action to **address climate change impacts**.

2. Utilizing **best available climate change data for a proactive solution**. Data from local-level climate change vulnerability studies may also be used.

3. Committing to **monitoring** project success and **maintaining** the project into the future.
4. Employing nature-based solutions.

What are NBS?
Projects that restore, protect, and/or manage natural systems and/or mimic natural processes to address hazards like flooding, erosion, drought, and heat islands in ways that are cost-effective, low maintenance, and multi-beneficial for public health, safety, and well-being.

With Permission: illustration from The Curious Garden, by Peter Brown
5. Achieving **broad** and multiple community benefits.

Resilience means thinking holistically and working together across our typical silos. No one entity can be resilient on their own.
6. Involving Environmental Justice Populations in meaningful decision-making, as defined and outlined in the 2017 EEA EJ Policy, and giving special consideration to Climate Vulnerable Populations.

“Equity vs Equality” flickr photo by MN Pollution Control Agency
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MVP CORE PRINCIPLES

7. Utilizing regional solutions toward **regional** benefit.

8. Pursuing approaches from which other MVP communities and the state can **learn**.
The MVP Action Grant Request for Responses (RFR) is OPEN until June 11, 2020 at 2pm.
Projects that **restore**, **protect**, and/or **manage** natural systems and/or mimic natural processes to address hazards like flooding, erosion, drought, and heat islands in ways that are **cost-effective**, **low maintenance**, and **multi-beneficial** for public health, safety, and well-being.

From - *Conserving Land* - to - *Restoration* and *green stormwater management* - And anything in between!