









### WHAT IS...CLIMATE CHANGE

According to the 2018 Massachusetts Integrated State Hazard Mitigation and Climate Adaptation Plan (SHMCAP), climate change is

"a change in the state of the climate that can be identified by statistical changes of its properties that persist for an extended period, whether due to natural variability or as a result of human activity."

Changes in climate affect the way storms and hazards impact DCR's natural, cultural, and recreational resources.





## **DCR's Climate Resilience Actions**

#### CLIMATE MITIGATION

- Building weatherization
- Onsite renewable energy
- Zero Emission Vehicles improved fuel efficiency
- Reduce fuel use in landscaping
- Energy conservation
- Strategic electrification
- Storage for peak demand response
- Sustainable transportation options
- Executive Order 594

- Vulnerability assessments
- Land Protection & Acquisition
  - Tree Planting
- Forest Management
- Tree Species Diversity
- Marsh Restoration
  - Dam removal
- Asset Management

# CLIMATE ADAPTATION & HAZARD MITIGATION

- Stormwater management
  Floodproofing
- Flood Control/dam rehabilitation
  Culvert Upgrades
  - Slope and Bank stabilization
    - Reduction of hazard fuels
    - Coastal Flood Protection
      - Beach Management
  - Generators for critical facilities
    - Structural Hardening
    - Executive Order 569



#### sachusetts Department of Conservation & Recreation Climate Change Viewer



#### DCR CLIMATE CHANGE VULNERABILITY ASSESSMENT

- Property level vulnerability assessment
- Climate Change exposure, sensitivity, and adaptive capacity
- 528 DCR owned and managed lands
- Informing DCRs plans:
  - Resource Management Plans
  - Watershed Protection Plan
  - and other planning initiatives.





## **Collaborations and Partnerships**



Resilient Mystic Collaborative Event at Draw Seven Park



Stone Living Lab Partnership installs a real time water surface elevation monitoring tide gauge at Gallops Island.





#### **ONGOING PROJECTS AND STUDIES**

DCR Statewide Heating System Decarbonization Initiative

Belle Isle Marsh Environmental Inventory, Coastal Modeling, and Restoration Assessment

Resilient Town Line Brook Project Scoping

DCR Parkways Vulnerability Assessment



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# OFFICE OF CLIMATE RESILIENCE

#### THANK YOU

dcr Massachusetts

