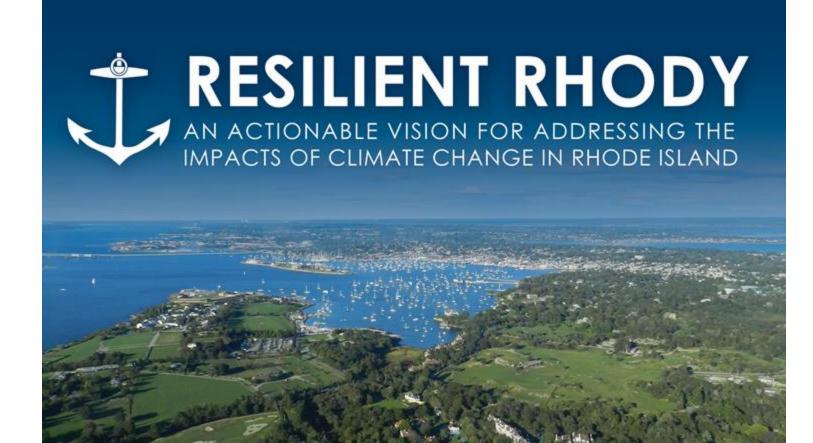


November 19, 2024



Resilient Rhody, 2018 Rhode Island's Climate Resilience Action Strategy





Making the Case for Climate Resilience



RESILIENCE THEME: Natural Systems



RESILIENCE THEME: Community Health and Resilience



RESILIENCE THEME: Emergency Preparedness



RESILIENCE THEME: Critical Infrastructure and Utilities



Financing Climate Resilience Projects

Municipal Resilience Program State + Local Collaboration

• Launched in 2019

• Community Resilience Building Workshops:

- **Identify** community hazards, strengths, vulnerabilities, and priority actions
- **Develop** localized resilience strategies
- 1600+ Resilience Actions Identified

• MRP Action Grants:

- **Fund** design and construction of capital projects with resilience benefits
- **\$24.4 in funding awarded** 2019-2024

• Project Pipeline:

- **Support** municipalities to identify further funding/financing sources
- 38/39 RI municipalities participating

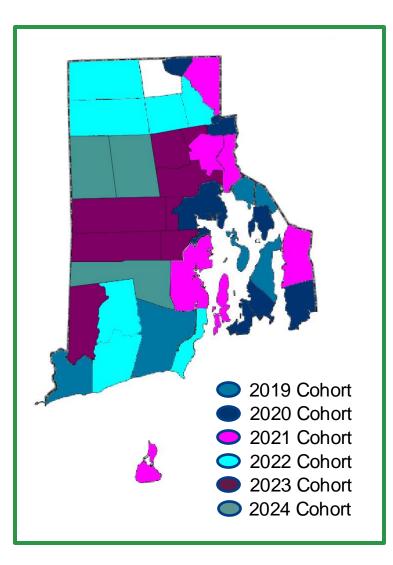


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Chief Resilience Officer

Transition from RIIB to RIDEM

- Chief Resilience Officer RI Infrastructure Bank June 2017 July 2021
- May of 2023 Governor McKee re-establishes Chief Resilience Officer at RI Department of Environmental Management
- Chief Resilience Officer RIDEM Jan 1, 2024 present
- Transition discussions held October 2023 December 2023
 - Statewide & Local Planning, Technical Assistance, and Coordination responsibilities to shift to RIDEM (Resilient Rhody, MRP Workshops, Designing for Resilience, Resilience EC4 Subgroup)
 - MRP Action Grant responsibilities to remain with RIIB, with RIDEM to support on RFP development and application review

Chief Resilience Officer – Executive Order 23-07

The Department of Environmental Management shall recruit and hire an individual to serve as the Rhode Island Chief Resilience Officer.

- Coordinate resilience efforts across state agencies, municipalities, businesses, and other organizations and to advise the RI Executive Climate Change Coordinating Council (RIEC4), established pursuant to R.I. General Laws § 42-6.2-1, on the status and effectiveness of those efforts;
- Draft state policies on resilience and implement such policies under the direction of the RIEC4;
- Serve as the primary **voice and advocate** for state actions on resilience;
- Build upon the planning assistance provided to municipalities by MRP workshops, in coordination with partner agencies;
- Work closely with RIIB on the **MRP Action Grants** and the planning and financing of other resilience projects;
- Work with RIIB and CRMC on the implementation of the OSCAR grant program;
- Plan and implement projects to protect and restore the habitat and recreational resources owned or under the stewardship of DEM;
- Aggressively track and apply for federal grants to fund resilience efforts across Rhode Island;
- Coordinate resilience efforts with decarbonization programs, activities, and policies taken in accordance with the RI Act on Climate; and
- Provide biennial reports to the RIEC4, the Governor, the Speaker of the House of Representatives, and the President of the Senate on the State of Resilience in Rhode Island, with the first report to be submitted by December 31, 2024.

Chief Resilience Officer – Act on Coasts

Establishes the Chief Resilience Officer in statute, including all mandates listed in EO 23-07, with the addition of the below:

- Conduct a comprehensive assessment of the climate risks related to sea level rise for coastal and riverine communities. The CRO will conduct an assessment of risk to Providence, Kent, Washington, Bristol and Newport counties for the purposes of the development of a statewide coastal resilience strategy
- Develop a coastal resilience plan... to support community and economic recovery efforts and to address risk and vulnerability reduction from sea rise, riverine flooding and urban heat. The CRO shall provide the statewide coastal resilience plan to the governor, the RIEC4 and the general assembly to be included in the state climate plan
- Provide technical assistance to municipalities and the state for the implementation of resilience planning, including resilience frameworks, vulnerability profiles, risk-reduction plans, and economic development strategies.

Chief Resilience Officer

Three Core Goals: Elevation, Collaboration, and Transparency



Collaboration on resilience solutions at Fogland Point in Tiverton with Save the Bay

- 1. Elevate local resilience needs
- 2. Foster collaboration & coordination
- 3. Increase transparency and accessibility

Statewide Collaboration Framework

1. Planning

- Statewide Planning: Resilient Rhody 2.0 2024 State of Resilience Report, 2025 Statewide Coastal Resilience Plan
- Local Planning: MRP Community Resilience Building Workshops, Municipal Annual Resilience Updates

2. Implementation

- Resilience Technical Assistance (Project Scoping, Policy Development, Design & Engineering)
- State + Federal Resilience Grants

3. Capacity Building & Partnerships

- Resilience EC4 Subgroup
- RI Resilience Partner Group
- State Resilience Office (Regional Resilience Coordinators) Three (3) Regional Coordinators

4. Transparency & Information Sharing

- Resilience Web Resources
- Annual Rhode Island Resilience Summit

Statewide Collaboration Framework - Timelines

1. Planning

- Statewide Planning: Resilient Rhody 2.0 2024 State of Resilience Report (December 2024), 2025 Statewide Coastal Resilience Plan (December 2025)
- Local Planning: MRP 2.0 Community Resilience Building Workshops (February 2025), Municipal Annual Resilience Updates (Spring 2025)

2. Implementation

- Resilience Technical Assistance (Project Scoping, Policy Development, Design & Engineering) (Designing for Resilience March 2025)
- State + Federal Resilience Grants (MRP Action Grants & Climate Resilience Fund Summer/Fall 2025)

3. Capacity Building & Partnerships

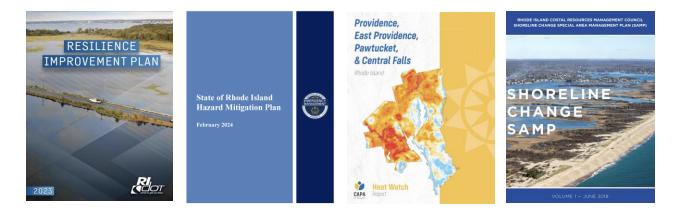
- Resilience EC4 Subgroup (Re-Established July 2024)
- RI Resilience Partner Group (Launched Sept. 2024)
- State Resilience Office (Regional Resilience Coordinators) Three (3) Regional Coordinators (January/February 2025)

4. Transparency & Information Sharing

- Resilience Web Resources (January 2025)
- Annual Rhode Island Resilience Summit (In alignment w/ MRP 2.0 Workshop Launch)

Across Agencies & Partners

Statewide Plans



Data & Mapping

Rhode Island STORMTOOLS

Narragansett Bay Estuary

Program

GIS Data Hub

Rhode Island Coastal Hazards, Analysis, Modeling & Prediction

RI-CHAMP

SLAMM (Sea Level Affecting Marshes Model) Maps

 URI Environmental Data Center and RIGIS

 Control
 Environmental Data Center

MyCoast

Local Planning

- MRP Community Resilience Building
- Local Comprehensive Plans
- Local Hazard Mitigation Plans
- Health Equity Zones

Project Scoping & Technical Assistance

- Coastal Hazards Application
- Designing for Resilience
- Microgrid Municipal Technical Assistance
- Municipal Ordinance Assistance

State of Resilience Report 2024 EO 23-07

Providing a snapshot of our current climate resilience efforts statewide.

Structure:

- RI Climate Resilience Data Snapshot (STAB Approved)
- RI Resilience Standards & Permitting Requirements Snapshot
- RI Resilience Successes (Current Metrics) Snapshot
- Statewide Resilience Initiatives (Government & Non-Governmental Planning, Outreach & Engagement, Technical Assistance, and Grant Programs)
- Resilient Rhody 1.0 Goal Progress Summary
- Municipal Resilience Actions Summary (Key Needs & Accomplishments)
- Next Steps: Overview of State Climate Resilience Plan 2025 Process & Deliverable

Statewide Coastal Resilience Plan 2025

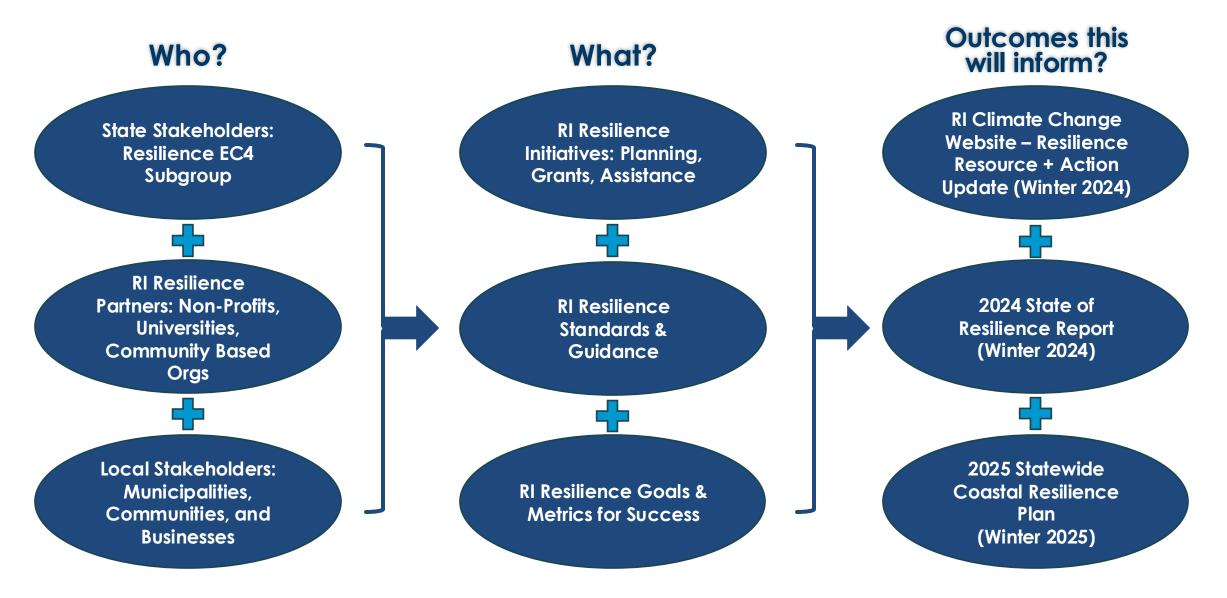
R.I. Gen. Laws § 46-23.4-1 - Act on Coasts

Setting new goals, surveying our vulnerabilities, and determining our best practices for future investment.

Proposed Components:

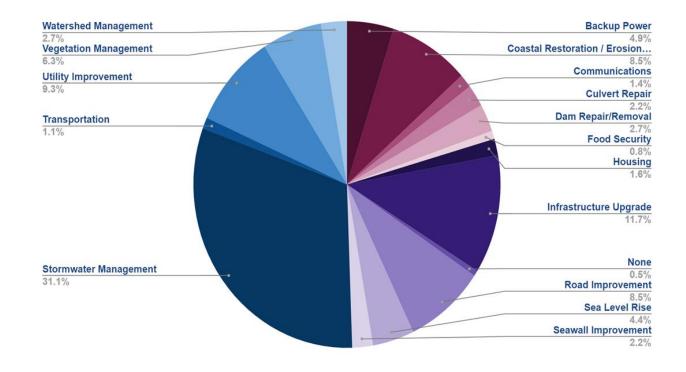
- Gap Analysis & 2025 State Resilience Goals (Revised from Resilient Rhody 2018)
- Assessment of Statewide Climate Change Vulnerabilities
 - Assessment of vulnerability of infrastructural, economic, environmental, and societal asset types considered in *Resilient Rhody* 2018 (expands upon those named in Act on Coasts)
 - Consideration of climate impacts determined in Resilient Rhody (sea level rise, storm surge, intense precipitation, warming air & water temps, & changing biodiversity)
 - Analysis will consider short, medium, and long term scenarios (2035, 2050, and 2100)
- RI Climate Resilience Best Practices
- Review of Funding/Financing Options & National Resources
- Municipal Resilience Priority Actions

Statewide Resilience Collaboration



- **Top 5 Resilience Project Needs** Identified through Municipal Resilience Program:
- 1. Stormwater Management
- 2. Infrastructure Resilience
- 3. Utility Resilience
- 4. Coastal Restoration / Erosion Control
- 5. State + Local Road Resilience

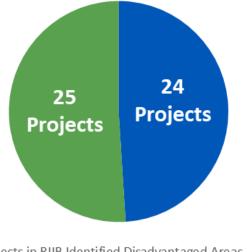
MRP Identified Projects by Type, 2021 Analysis



MRP Funded Projects in State Identified Disadvantaged Areas, 2023 Analysis

2019-2023: 49 MRP Action Grants, \$7.4 million total in funding awarded

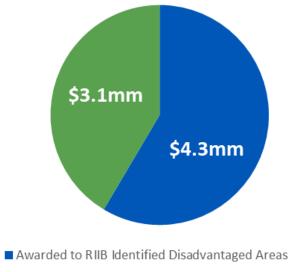




Projects in RIIB Identified Disadvantaged Areas

Projects Outside RIIB Identified Disadvantaged Areas

\$4.3mm in MRP Action Grant dollars awarded to RIIB Identified Disadvantaged Areas



Awarded Outside RIIB Identified Disadvantaged Areas



Johnston

"RI's 2023 MRP Action Grant round, offering \$12mm in funding, received over \$52mm in proposals – all of which were eligible, ready to proceed, and desperately needed."
 - RIDEM NFWF National Coastal Resilience Fund Proposal



Prudence Island, Portsmouth

"RI's 2023 MRP Action Grant round, offering \$12mm in funding, received over \$52mm in proposals – all of which were eligible, ready to proceed, and desperately needed."
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Massachusetts

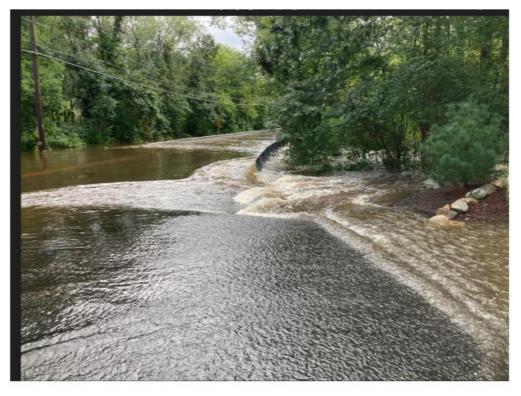
- In August 2024, \$52.4mm in MVP Action Grants awarded to cities and towns
- Disaster Relief Fund State disaster assistance for nonfederally declared events

Vermont

- Emergency Relief and Assistance Fund (ERAF) State funding assistance to match Federal Public Assistance after federally declared disasters
- Flood Resilient Communities Fund (FRCF) -Voluntary Buyouts of flood-vulnerable properties

Connecticut

Climate Resiliency Revolving Loan Fund



South Kingstown

Massachusetts

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Climate Resiliency Revolving Loan Fund

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Homeowner Risk & Voluntary Buyouts

Since September 2023, **Rhode Islanders required over \$22.4 million in Individual & Homeowner Assistance** Dollars from FEMA



Park Plaza Resident Evacuation – Johnston (Wheeler Cowperthwaite, Providence Journal)

Climate Adaptation – Relocation & Retreat

Georgetown Climate Center:

"Managed retreat, or the **voluntary movement and transition of people and ecosystems** away from vulnerable coastal areas"

Beach SAMP:

"This suite of adaptation measures can be applied to both **existing or new construction** and at the **site or structural scale**" **Short-term Vision**



Long-term Vision



Climate Adaptation – Relocation & Retreat

SLR + 100-YEAR STORM





2035

2050

2100

Source: Stormtools

Warren's Market to Metacom Resilience Project Market Street – Projected Flood Conditions

Climate Change Impacts Commission Focus Areas for Consideration

1. Intersection of Climate Resilience & Housing

- Analysis of state policy intersection on these topics
- Development of policy strategies for achieving both affordable housing and climate resilience to protect Rhode Island homeowners, renters, and businesses from climate change impacts & flood areas
- Analysis of policy that could contribute to new development in floodplain areas
- Analysis of insurance considerations & building codes
- 2. Development of "Cost of Inaction" estimate
 - Development of a series of proposed new state climate funds to support resilience planning, projects, and capacity

Contact

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