Maine Climate Council

Community Resilience Planning, Public Health, and Emergency Management Working Group
Co-chairs Judy East, Nirav Shah, Rebecca Boulos, and Anne Fuchs
Maine Climate Council

PROCESS TIMELINE

June 2019
Governor signs LD 1679, establishing Maine Climate Council

Sept 2019
Governor appoints Maine Climate Council members; MCC launches

Oct 2019 - June 2020
Working Groups & Scientific + Technical Subcommittee Meet Monthly to Develop Mitigation & Adaptation Recommendations, Characterize Climate Impacts

June 2020 - Dec 2020
Maine Climate Council Considers and Selects Final Strategies for State Climate Action Plan

Dec 1, 2020
State Climate Action Plan Delivered to Legislature
Community Resilience Planning, Public Health & Emergency Management Working Group Members

Co-chairs: Judy East, Land Use Planning Commission; Dr. Nirav Shah, Maine Center for Disease Control and Prevention; Rebecca Boulos, Maine Public Health Association; Anne Fuchs, Maine Emergency Management Agency

Senator David Miramant, Maine State Legislature
Senator Marianne Moore, Maine State Legislature
Rep. Genevieve McDonald, Maine State Legislature
Rep. Beth O'Connor, Maine State Legislature
Anne Ball, Maine Downtown Center
Andrew Barton, University of Maine
Bruce Berger, Maine Water Utilities Association
Lance Boucher, American Lung Association
Howard Carter, City of Saco
Joe Chappell/Margaret Cushing, Cumberland County Emergency Management Agency
John Egan, Coastal Enterprises, Inc.
Bob Faunce, Town of Damariscotta
Elsie Flemings/Katie Freedman, Healthy Acadia
Kristina Ford, Town of Boothbay
David Gardner, Maine Department of Transportation
Steven C. Golieb, Town of Millinocket
Mark Green, Downeast Community Partners
Nancy Hasenfus, Retired physician
Gwen Hilton, Maine Land Use Planning Commission
Chace Jackson, American Heart Association
Tora Johnson, University of Maine at Machias
Eileen Johnson, Bowdoin College
Debbie Johnson, Maine Department of Economic and Community Development
Nan Johnson, Federal Emergency Management Agency
Kohl Kanwit, Department of Marine Resources
Chuck Lubelczyk, Maine Medical Center Research Institute
Jessie Perkins, Bethel Area Chamber of Commerce
Patricia Pinto, AARP Maine
Michael Plaziak, Maine Rural Water Association
Hayley Prevatt, City of Portland Public Health
Grainne Shaw, Sagadahoc County Emergency Management Agency
Abbie Sherwin, Southern Maine Planning and Development Commission
Anna Siegel, US Youth Climate Strikes, Youth Rep.
Ray Sisk/Leticia vanVuuren, Knox County Emergency Management Agency
Peter Slovinsky, Maine Geological Survey
Lisa Sockabasin, Wabanaki Public Health
Charlie Soltan, Soltan Bass, LLC
Esperanza Stancioff, University of Maine/Maine Sea Grant
Marla Stelk, Association of State Wetland Managers
Michele Walsh, Maine Department of Agriculture, Conservation and Forestry
Community Resilience Planning
2. Improve Delivery System of Technical Assistance on Resilience to Municipalities
3. Funding Mechanisms to Achieve Resilience

Public Health
4. Improve Public Health Behavior Related to Climate Impacts Through Investments in Public Health Monitoring and Education
5. Conduct Public Education About Climate Change Health Effects and Resources
6. Reduce Impacts from High Intensity Weather Events
7. Improve Health Systems’ Capacity to Mitigate & Adapt to Climate Change

Emergency Management
8. Develop a State Infrastructure Climate Adaptation Fund
STRATEGY #1 Initiate a Comprehensive Review of Maine Laws to Achieve Resilience & Economic Security in the Face of Climate Change

Update Maine laws to promote community resilience

- 9 DRAFT sub-strategies on land use and water use rules

Consistent and science-based definitions

Minimize the compliance burden on

- Applicants, permitting & compliance staff, local regulators

Enable development in areas identified by communities

Coordinate change with robust technical assistance and training
STRATEGY #2  Improve Delivery System of Technical Assistance on Resilience to Municipalities

Expand state technical assistance to communities

- Designate agency resilience officers to coordinate assistance
- Train and certify code enforcement officers

Support regional delivery of technical assistance

- Provide training to and by regional planning organizations
- Promote sharing of knowledge and tools among communities

Seek efficiencies in the creation and delivery of assistance

- Leverage expertise in the nonprofit, private, and academic sectors
STRATEGY #2 Improve Delivery System of Technical Assistance on Resilience to Municipalities

Use existing governing structures and processes
- Integrate resilience into existing plans, regulations, and governance
- Incentivize municipalities to designate resilience officers

Support municipalities to understand the impacts of a changing climate
- Scale technical assistance to different community types & sizes

Provide a clearinghouse for data, tools, funding sources, and case studies

One size does not fit all
Don’t reinvent the wheel, but DO air up the tires
STRATEGY #3  Funding Mechanisms to Achieve Resilience

Establish cabinet-level leadership to coordinate agency efforts.
• Designate a lead agency and a state resilience officer.

Create a clearinghouse of funding programs and finance mechanisms

Incentivize communities to cooperate regionally
• Especially in competing for federal grants
• Give preference to communities/regions with resilience plans

Incentivize inclusion of resilience and greenhouse gas emission reduction strategies into plans, regulations, capital investment, and staffing

Establish a Maine Climate Corps for climate-related workforce development.

Coordinate
Incentivize

Modify TIFs to implement resilience projects

Pursue a climate resilience bond
• Successful examples in MA & RI

Create a Maine Infrastructure Bank
• Merge management of existing loan funds
• Be customer-centric vs. program-centric (customer = municipality)

Develop new financing/leverage mechanisms
• Pursue larger capital markets
• Climate Resilience Authorities
• State Infrastructure Climate Adaptation Fund

Innovate
Leverage
STRATEGY #8 State Infrastructure Climate Adaptation Fund

• Enables municipalities funds to meet local cost share requirements of federal funding programs.
  • Increased execution of large and small adaptation projects resulting in avoided disaster dollars
  • Increased use of federal grant programs for large infrastructure projects, resulting in less stress on rate and tax payers

• Incentivizes further mitigation
  • Increased participation in hazard mitigation and climate adaptation planning
  • Increased participation in the National Flood Insurance Program
  • Increased participation in Community Rating System

Providing a state infrastructure funding opportunity encourages the “whole-community” approach.
Saco Water Resource Recovery Facility

Engineering Analysis:
$80,000

Proposed Adaptation:
$10,800,000

Cost of Doing Nothing:
$14,300,000 - $43,000,000
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### Prepare for Climate Change Impacts

<table>
<thead>
<tr>
<th>Build Healthy and Resilient Communities</th>
<th>Invest in Climate-Ready Infrastructure</th>
<th>Protect Maine’s Environment and Natural Resource Economies and Promote Natural Climate Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhance and coordinate assistance and funding for community resilience</td>
<td>Assess the vulnerability of Maine’s infrastructure</td>
<td>Protect Maine’s natural and working lands and waters</td>
</tr>
<tr>
<td>Improve the planning and legal tools that build resilience</td>
<td>Provide technical assistance and seed funding to unlock federal funding for infrastructure projects</td>
<td>Support Maine’s natural resource economies</td>
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<tr>
<td>Invest in public health monitoring and education</td>
<td>Give particular to Maine’s working waterfronts and seaports</td>
<td>Increase carbon sequestration</td>
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<tr>
<td>Protect water sources from high intensity weather events</td>
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<td>Improve monitoring to understand and manage the response to climate change</td>
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## Reduce Maine’s Greenhouse Gas Emissions

<table>
<thead>
<tr>
<th>Bring the Future of Transportation to Maine</th>
<th>Modernize Maine’s Buildings</th>
<th>Reduce Carbon Emissions in Maine’s Energy and Industrial Sectors</th>
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</thead>
<tbody>
<tr>
<td>Increase electric vehicle use</td>
<td>Improve the design and construction of new buildings</td>
<td>Ensure adequate affordable clean energy supply</td>
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<tr>
<td>Reduce emissions from current gas and diesel engines</td>
<td>Promote climate-friendly building products</td>
<td>Initiate a stakeholder process to modernize Maine’s electric grid</td>
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<tr>
<td>Reduce Vehicle Miles Traveled (VMT)</td>
<td>Transition to cleaner heating and cooling systems</td>
<td>Accelerate the decarbonization of industrial use and processes</td>
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<tr>
<td>Explore funding options for transportation needs &amp; emissions reductions</td>
<td>Institute a Renewable Fuel Standard</td>
<td>Encourage highly efficient Combined Heat and Power facilities</td>
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<td>Weatherize existing buildings</td>
<td>Develop financing options to meet clean energy and emission reduction targets</td>
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<td>Lead by Example in publicly funded buildings</td>
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<td>Incentivize hospitals to be carbon neutral</td>
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What’s Next?

- Next Maine Climate Council meeting: Oct. 1, 2020
  - Wednesday, Oct. 21
  - Thursday, Nov. 12