

Commonwealth of Massachusetts

Executive Office of Energy and Environmental Affairs

Massachusetts Environmental Policy Act

ACEC Presentation

November 21, 2022



KEY THEMES FOR REGULATORY REVIEW (2021-22)

- Regulatory review effort launched in February 2021
- Alignment with policy and planning efforts
 - Environmental justice (regulations promulgated 12/24/21)
 - Climate resiliency (interim protocol launched 10/1/21)
 - Greenhouse gas (GHG) mitigation
- Updates to thresholds and process ("Phase 2")
 - Clarify definitions
 - Update thresholds
 - Clarify review procedures



2021 Regulatory Review

Environmental Justice Update



CLIMATE LEGISLATION (Section 58)

- Added new requirements for EIRs to contain analysis of impacts on Environmental Justice (EJ) populations:
 - EIR for projects that are likely to cause Damage to the Environment and are located within 1 mile of an EJ population or within 5 miles if the project that impacts air quality
 - Step 1: Assess existing unfair or inequitable environmental burden and related public health consequences from any prior or current project
 - <u>Step 2:</u> If EJ population is subject to an existing burden, the report shall identify any: (i) environmental and public health impact from the proposed project that would likely result in a disproportionate adverse effect; and (ii) potential impact or consequence from the proposed project that would increase or reduce the effects of climate change



CLIMATE LEGISLATION (Section 60)

- Added new requirements for public involvement by EJ populations:
 - Environmental notification form shall indicate if an EJ population that lacks English language proficiency within a designated geographical area is reasonably likely to be affected negatively by the project
 - If a proposed project affects an EJ population, the secretary shall require additional measures to improve public participation by the EJ population.
 - The term designated geographic area shall mean an EJ population located within a distance of 1 mile of a project, unless the project affects air quality then the distance from such project shall be increased to 5 miles.



MEPA Protocol for Analysis of EJ Impacts

Step 1: Assess Existing Environmental Burden

- <u>DPH EJ Tool</u>: "vulnerable health criteria" for EJ populations and additional mapping layers (available at https://matracking.ehs.state.ma.us/Environmental-Data/ej-vulnerable-health/environmental-justice.html)
- 2. <u>Climate Resilience Design Tool</u>: climate risks for sea level rise and precipitation (urban and riverine) (available at https://resilientma.org/rmat_home/designstandards/)
- 3. <u>EPA EJ Screen</u>: environmental indicators (available at https://www.epa.gov/ejscreen).
- 4. Any other factors identified during community engagement



MEPA Protocol for Analysis of EJ Impacts

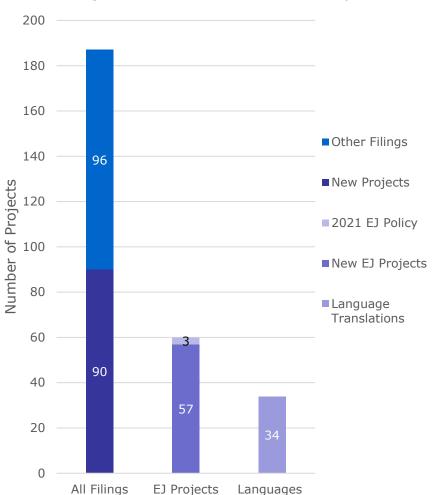
Step 2: Assess Project Impacts

- 1. Consider **nature and severity** of project impacts to determine disproportionate adverse effect ("materially exacerbate")
- 2. Compare impacts on **EJ vs. non-EJ** populations
- Consider project benefits that will reduce existing environmental burden
- 4. Consider climate change effects (e.g., flooding)
- 5. Provide mitigation if disproportionate adverse effects or increased climate risks to EJ population are identified.

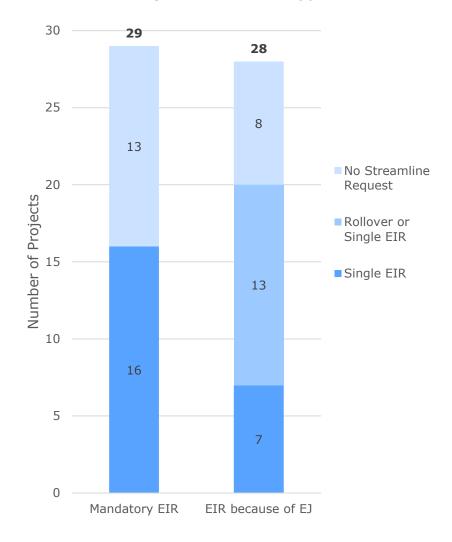


MEPA Projects Near EJ Populations (Jan 1 – Sep 30, 2022)



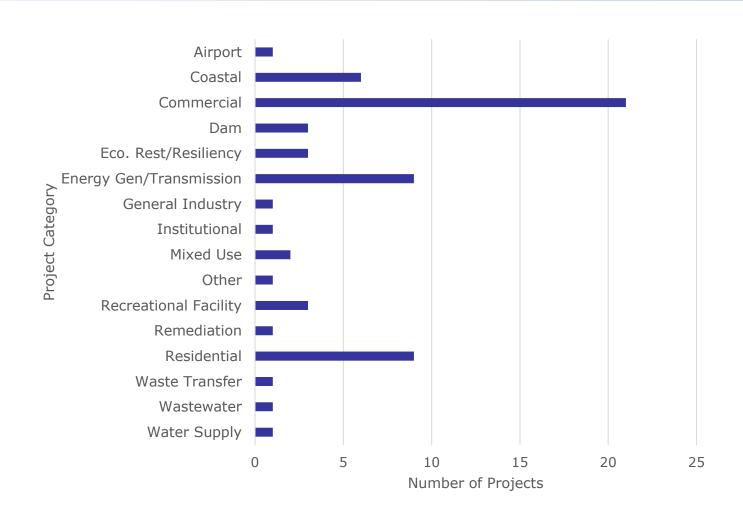


New EJ Projects: Review Type





EJ Projects by Project Type (Jan 1 – Sept 30, 2022)





Key Observations

Advance Notification

- Most projects are complying with 45-day advance notice requirement, even if not strictly required (such as NPCs)
- Some notices have lapsed (after 90 days), causing concerns about delay
 - Eff. 10/7/22, MEPA is requiring 30-day notice for any "repeat" notices
- Some recipients have requested to be removed from EJ Reference List, and a few requests to be added were received

Public Involvement

- "Joint" MEPA-EJ prefiling times (Thu's) are booked each week
- Very few projects are employing truly "community-based" strategies
- EEA EJ Director to plan trainings with EJ communities on how to participate in the MEPA process



Key Observations

Analysis of EJ Impacts

- Baseline conditions assessment
 - "Vulnerable health EJ criteria" (110% above statewide average) is mistaken to mean "statistical significance"
 - Public health data are not provided at census tract level
 - Survey of polluting facilities from DPH EJ Tool is missing
- Assessment of project impacts
 - Traffic / air quality analysis is cursory
 - Discussion focuses on generalized community benefits
 - Draft Section 61 findings do not address EJ separately
 - Public health section is not provided separately



Issues for Future Consideration

Make Project Information More Readily Available

Working to add searchable "EJ Notice" to Environmental Monitor

Improve Public Involvement and Outreach

- Consider requiring 45-day advance notification for <u>all</u> EJ projects (would require regulatory change)
- Provide better guidance on public involvement strategies, possibly focusing on specific project types (EEA EJ staff has been expanded)

Improve EJ Analysis

Coordinate with MassDEP's cumulative impacts analysis stakeholder effort

Evaluate MEPA Review Thresholds

Potentially raise/lower to focus on projects of concern



2021 Policy Update

Climate Resiliency and Adaptation



Executive Order 569



- 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

Environmental Bond Bill



- \$2.4 billion bond bill with focus on climate change resiliency
- Over \$200 million authorized for climate change adaptation
- Codifies EO 569, including the Municipal Vulnerability Preparedness (MVP) Program



Resilient MA Action Team (RMAT)

Climate Resilience Design Standards Tool

























The RMAT is responsible for the State Hazard Mitigation and Climate Adaptation Plan (SHMCAP) implementation, monitoring, and maintenance, with representatives from each Secretariat and key state agencies.

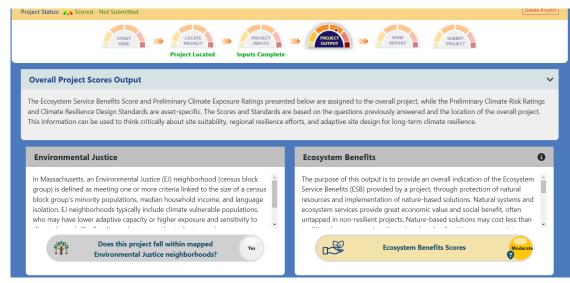
actions

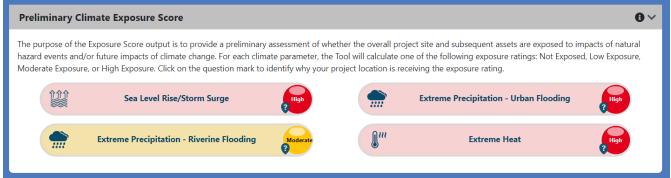
Integration of climate resilience into capital planning is a SHMCAP Priority Action

- Incorporating climate change vulnerability, resilience and adaptation standards into budgeting, coordination, capital planning
- Review and update design standards using MA climate change projections that will support best management and construction practices
- Incorporate climate vulnerability, resilience, and adaptation standards into capital planning for new projects



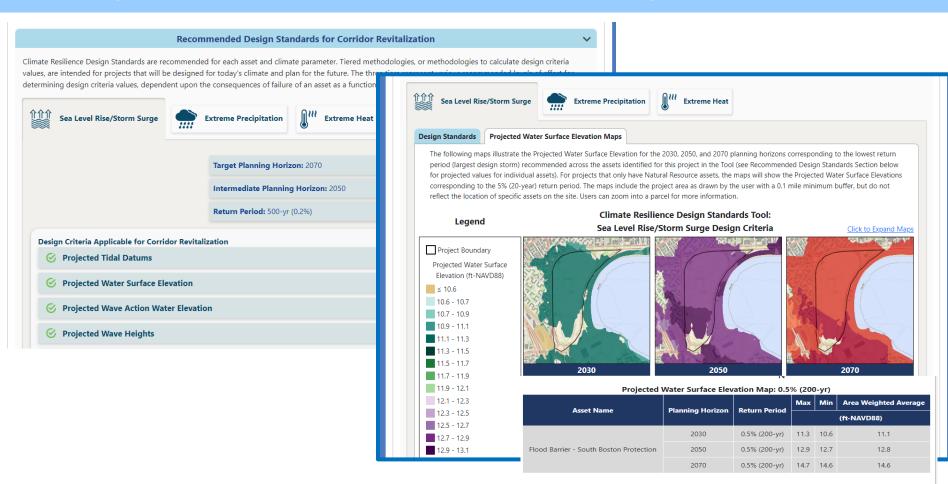
Tool Outputs: Preliminary Climate Exposure







Tool Outputs: Recommended Climate Resilience Design Standards





MEPA Chronology

- 2008: Global Warming Solutions Act adds requirement to consider climate change in Section 61 of MEPA
- 2010: MEPA Greenhouse Gas (GHG) Emissions Policy released
- 2014: Draft MEPA Climate Adaptation and Resiliency Policy issued for comment but not finalized
- 2016: Executive Order 569 requires state planning for climate change
- 2018: Statewide Integrated Hazard Mitigation and Climate Adaptation (SHMCAP) released
- Feb. 2021: MEPA Interim Protocol on Climate Adaptation and Resiliency issued for comment
- Apr. 2021: Climate Resilience Design Standards Tool released
- Oct. 1, 2021: Effective date of MEPA Interim Protocol on Climate Adaptation and Resiliency



MEPA Project Data (Oct. 1, 2021 to Sep. 30, 2022)

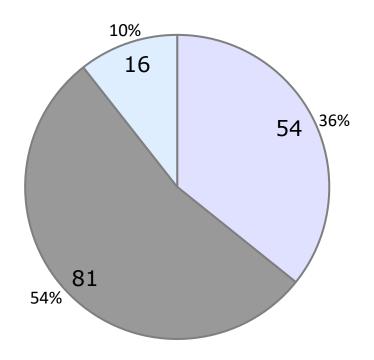
	2021	2022	TOTAL
Infrastructure	18	36	54
Building / Facility	29	52	81
Natural Resources	2	14	16
TOTAL	49	102	151

151 new projects

43 mandatory EIRs (based on thresholds)

3 discretionary EIRs

67 near EJ populations (since Jan. 1, 2022)



151 Projects Published & Submitted Climate Report





Exposure Rating

High

V Zones: 22

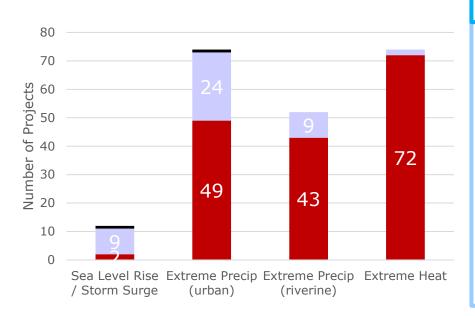
Moderate

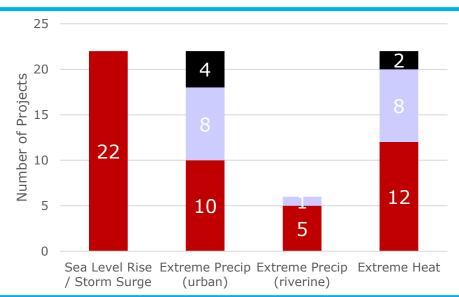
A Zones: 51

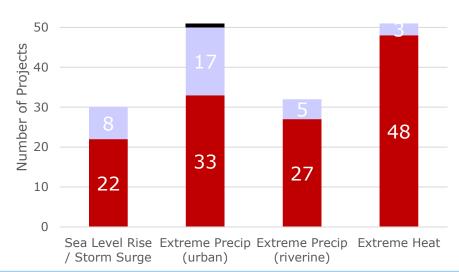
Low

X Zones: 74*

*10 in 500-yr floodplain



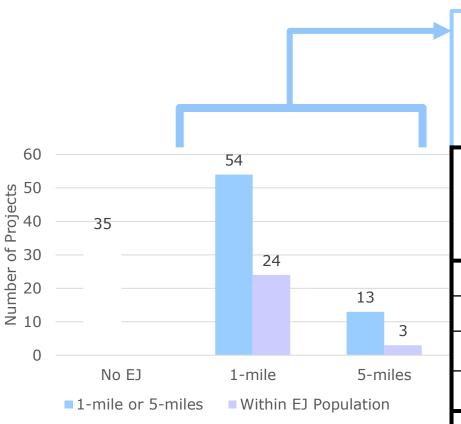




MEPA Project Data



EJ Communities



Characteristics of 67 projects (since Jan 1, 2022) near EJ populations: High Exposure

FEMA Zone	Sea Level Rise	Urban Flooding	Riverine Flooding	
V Zone	6	2	0	3
A Zone	10	18	15	28
X Zone	0	26	18	29
No Data	0	1	0	1
TOTAL	16	47	33	61



MEPA Climate Resiliency Policy

Future Updates Under Consideration

- Continue to require standard output report from MA Resilience Design Tool and discussion of climate resiliency in ENF/EENF.
- For <u>EIR-level</u> projects, require further analysis to <u>address</u> recommendations from MA Resilience Design Tool for applicable project components, including:
 - Elevation of buildings and structures
 - Stormwater sizing
 - ➤ Off-site flood impacts
 - ➤ Other applicable quantitative metrics



WAYS TO KEEP INFORMED

- Attend public meetings of the MEPA advisory committee: https://www.mass.gov/info-details/mepa-advisory-committee.
- Send <u>blank</u> email to <u>subscribe-</u> <u>mepa_reg_review@listserv.state.ma.us</u> to receive ongoing alerts. To request translation, email <u>MEPA-regs@mass.gov</u>.
- Updates will be posted at MEPA website at http://mass.gov/service-details/information-about-upcoming-regulatory-updates.