

### **BERDO Review Board**





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Board Member



# **City of Boston Staff**



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Hannah Payne

Director, Carbon Neutrality

### **Agenda**

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Today's Meeting

- 1. Approval of Meeting Minutes
- 2. Overview of New Tools
  - a. Emissions Calculator
  - b. Environmental Justice Map Tool
- 3. Discussion on Equitable Emissions Investment Fund
  - a. Draft evaluation form
- 4. Administrative Updates
- 5. Meeting Adjournment

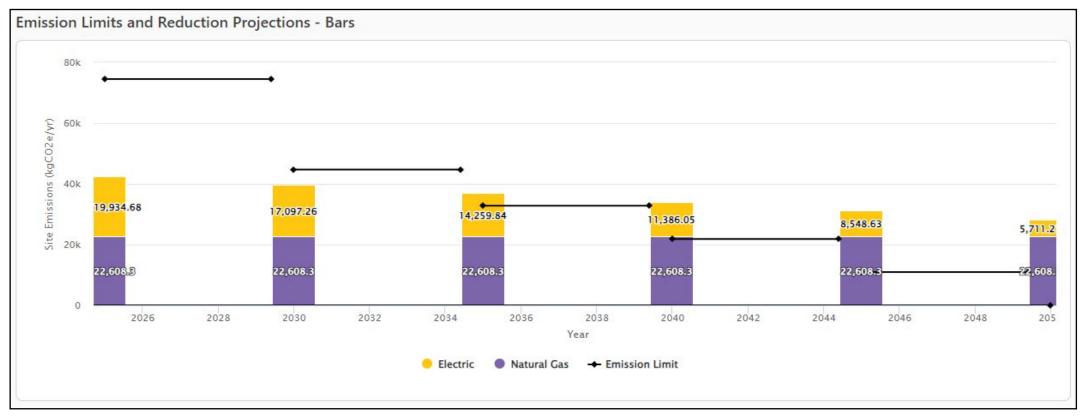




### **BERDO Emissions Calculator**



<u>BERDO Emissions Calculator</u> is designed to assist building owners in evaluating and understanding their projected emissions and compliance. Check out the accompanying <u>guidance document</u> for explanations and examples.



berdocalculator.touchstoneiq.com

### **Environmental Justice Map Tool How-to-Guide**



#### Link to How-to-Guide



#### **Content:**

- Describes "layers" or metrics included in the map tool
- Guides users on how to interpret each layer
- Guides users on how to produce the maps required for some Building Portfolio applications and Emissions standard compliance plans

### Who can use the map tool?



This tool may be used by building owners, Boston residents, and the general public to identify BERDO buildings located in Environmental Justice communities and exposed to different environmental stressors. Using this tool is required for some Building Portfolios.

#### Any Building Portfolio containing any of the following ...

- On-site Campus District Energy Systems or on-site Combined Heat and Power plants that use non-renewable or CO2e emitting fuels located in Environmental Justice Populations.
- Industrial or manufacturing buildings located in Environmental Justice Populations.
- Energy/power station Buildings located in Environmental Justice Populations.
- A combination of Residential Buildings located in both Environmental Justice Populations and non Environmental Justice Populations.
- A combination of Deed-Restricted Residential Buildings and other Residential Buildings, regardless of location.

#### ... will be required to produce a Building Portfolio map at three key milestones:

- ☐ When submitting an application to request the approval of the Building Portfolio.
- ☐ When submitting your Building Portfolio's first Emissions standard compliance plan.
- ☐ When submitting any subsequent update of your Building Portfolio's Emissions standard compliance plan.

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# What metrics are included in the map tool?

- The BERDO Environmental Justice Map includes five "layers".
- A *layer* is a slice of the map that contains information from a specific metric or collection of data. When you turn on a layer, the map will show a visual representation of a specific metric.
- For example, the "BERDO buildings" layer maps the location of all tax parcels that contain buildings covered by BERDO (example on the right).



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BERDO Buildings



#### Layer name

BERDO Buildings

#### **Metric description**

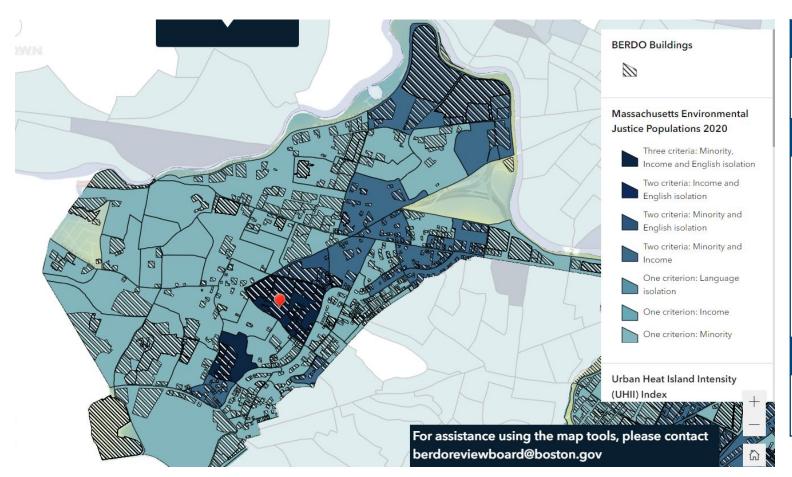
Buildings covered by BERDO. This data is mapped at the tax parcel level according to the City of Boston's Assessing Records.

#### Data source

City of Boston, BERDO Covered Buildings List



Massachusetts Environmental Justice Populations 2020



#### Layer name

Massachusetts Environmental Justice Populations 2020

#### **Metric description**

Neighborhoods of the City of Boston that meet one or more of the definition criteria for "Environmental Justice Populations". This data is mapped at the census tract level.

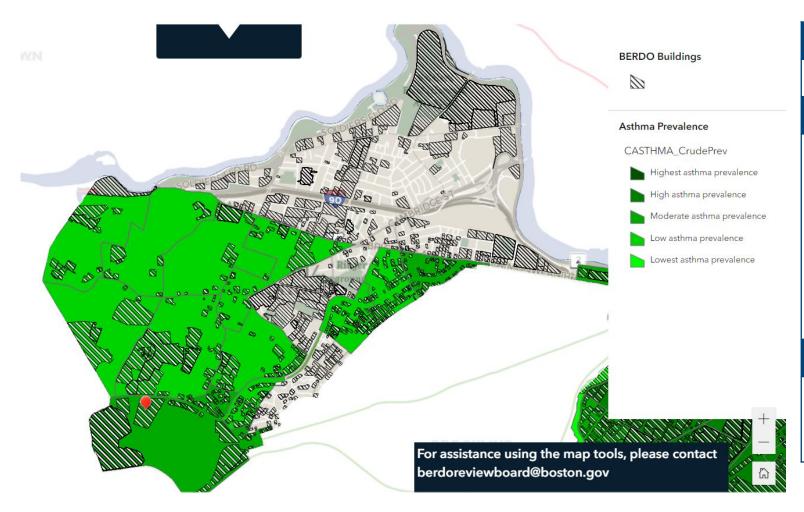
Definition criteria include income, minority populations, and language isolation.

#### Data source

Massachusetts Executive Office of Energy and Environmental Affairs



Asthma Prevalence



#### Layer name

Asthma Prevalence

#### **Metric description**

Asthma prevalence among adults aged 18 or older. This data is mapped at the census tract level.

Asthma prevalence represents the proportion of a population who have experienced asthma in a given time period. It provides a 'snapshot' of a population.

#### Data source

Centers for Disease Control and Prevention, U.S. EPA Environmental Justice Screening and Mapping Tool



Urban Heat Island Intensity (UHII) Index



#### Layer name

Urban Heat Island Intensity (UHII) Index

#### **Metric description**

Urban Heat Island Index (UHII) across the City of Boston.

The UHII shows the difference in temperatures experienced across Boston during a modeled heat wave.

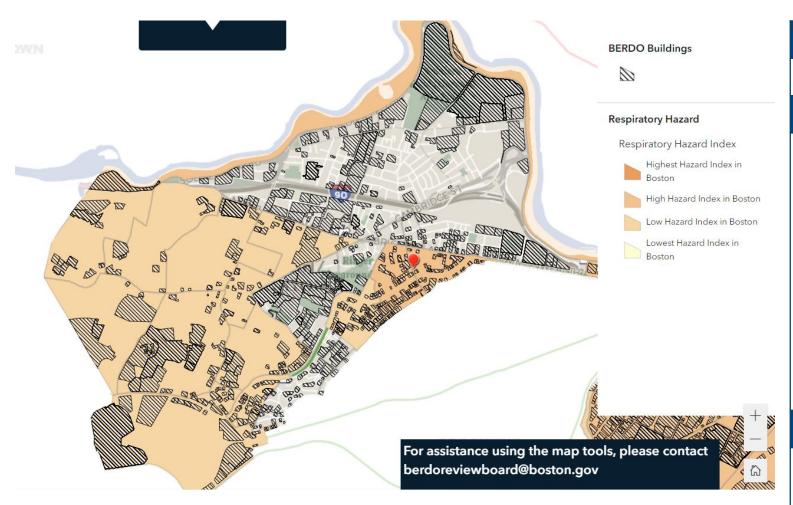
It compares each point of Boston to the coolest points in the city.

#### Data source

City of Boston, Climate Ready Boston Map Explorer



Respiratory Hazard



#### Layer name

Respiratory Hazard

#### **Metric description**

Air Toxics Respiratory Hazard Index (HI) across the City of Boston. The HI represents the potential adverse health effects caused by a combination of air pollutants. This data is mapped at the census tract level.

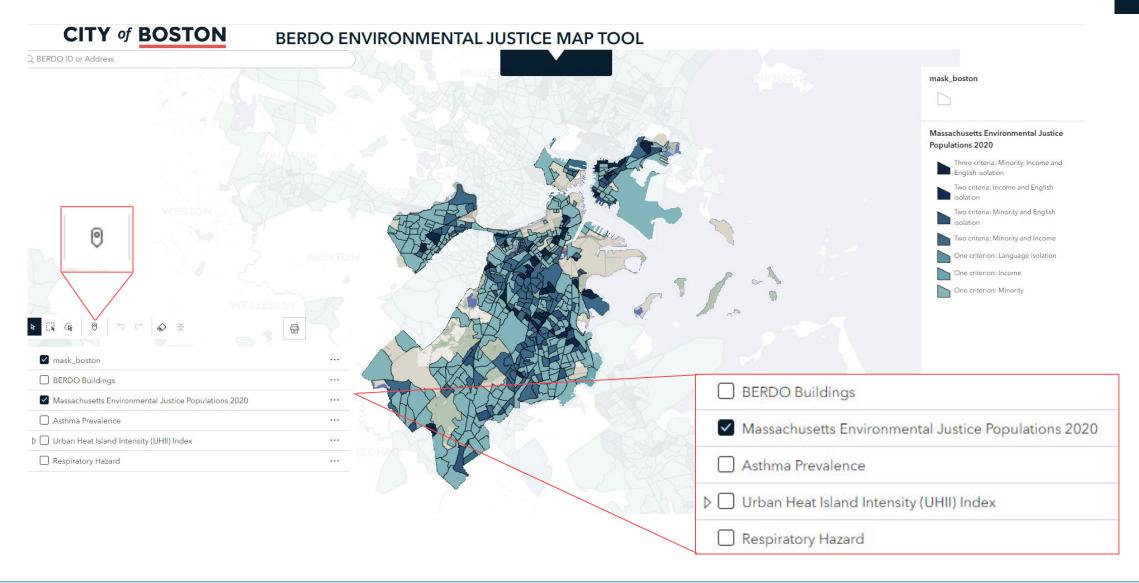
A HI ≤ 1 means air toxics are unlikely to cause adverse noncancer health effects over a lifetime of exposure. All HI values in Boston are below 1, but there are different levels of HI across the city.

#### Data source

Centers for Disease Control and Prevention, U.S. EPA Environmental Justice Screening and Mapping Tool

### **Environmental Justice Mapping Tool Demo**









### **Equitable Emissions Investment Fund**



From **BERDO** Ordinance

#### **Purpose**

"Money in the Fund shall be expended for the support, implementation, and administration of local building carbon abatement projects that benefit the City of Boston's emissions reduction goals. Fund expenditures shall prioritize projects that benefit Environmental Justice Populations and populations disproportionately affected by air pollution, including by improving or promoting:

- Low-income affordable housing and housing where tenants are at risk of displacement and in need of rent stabilization
- Local air quality improvement;
- Indoor environmental quality and health for building tenants
- Economic inclusion, training, and technical assistance for Minority, Women, and Disadvantaged Business Enterprises (MWDBE) and cooperative contractors
- Equitable workforce development training programs for residents who have been disproportionately impacted by the effects of climate change
- Projects with community ownership of housing and renewable energy infrastructure
- Reduced energy burdens
- Any further environmental initiatives."

### **Equitable Emissions Investment Fund**



- Seeded with \$3.5 million
- Alternative Compliance Payments (ACPs) will go directly into the Fund
- The BERDO Review Board will review project proposals, make recommendations for expenditures, and set conditions for expenditures.



BERDO buildings with emissions over their limits pay ACPs and/or penalties to comply with BERDO



**Equitable Emissions Investment Fund collects money** 



ACPs and penalties are invested in local building carbon reduction projects approved by the Review Board

# **Equitable Emissions Investment Fund**



From <u>BERDO Regulations</u>

#### **Eligibility**

"Any Building Owner or resident located in the City of Boston, or entity acting on behalf of Boston buildings, is eligible to receive funding from the Fund to evaluate, design, implement, support and/or administer projects that produce direct Emissions reductions from Energy use in buildings located in the City of Boston."

#### **Funding Decisions**

"The Review Board shall develop, and may periodically update, a project review form that incorporates the criteria in Section XVII.c.ii. The Review Board will present the project review form for comment at a public hearing. The Review Board shall use the project review form to inform funding decisions."

# **Description of Each Criteria**

Criteria	Description	
Emissions reductions	The expected timeline and scale of direct Emissions reductions produced by the proposed project. Review Board members may consider metrics such as expected absolute Emissions reductions or expected Emissions reductions achieved per dollar spent.	
Benefits to affordable housing	The expected timeline and scale of direct benefits provided to low-income residents or residents of affordable housing, including, but not limited to, whether projects will support the development or protection of low-income or affordable housing.	
Benefits to tenants	The expected timeline and scale of direct benefits provided to low-income residents or residents of affordable housing, including, but not limited to, whether projects include anti-displacement measures, such as rent stabilization, rent assistance, and/or relocation assistance.	
Benefits to labor and workforce development	The expected timeline and scale of benefits to local labor and workforce development, including equitable employment and contracting standards, living wage standards, and the hiring of local contractors, cooperative contractors, Minority, Women, and Disadvantaged Business Enterprises, and/or trainees or recent graduates from local workforce development programs.	
Benefits to outdoor air quality	The expected timeline and scale of direct emissions reductions of criteria air pollutants, including carbon monoxide, lead, ground-level ozone, nitrogen dioxide, particulate matter, and sulfur dioxide.	
Benefits to indoor air quality and quality of life	The expected timeline and scale of improvements related to indoor air quality, thermal comfort, and/or reduced energy bills for building occupants produced by the proposed project.	
Climate resilience benefits	The expected timeline and scale of climate resilience benefits produced by the project, including heat resilience, energy resilience, and coastal and stormwater flood management.	
Energy justice benefits	The expected timeline and scale of benefits related to reducing Energy bills for building occupants and/or contributing to community ownership or control over Energy infrastructure.	
Other benefits	Other benefits presented by the applicant and evaluated at the discretion of the Review Board. This may include the proposed project's replicability, scalability, uniqueness, urgency and timeliness.	

Draft Evaluation Form						
Criteria	Highly Advantageous	Advantageous	Not Advantageous	Not Present		
Emissions reductions	Building emissions reductions are clearly defined, expected timeline and scale are clearly outlined, and are realistic.	Building Emissions reductions are mentioned, but timeline and scale are unclear or results are moderate emissions reductions.	Building emissions reductions are limited.	Building emissions reductions are not mentioned.		
Benefits to affordable housing	Affordable housing benefits are clearly defined, expected timeline and scale are clearly outlined, and are realistic.	Affordable housing benefits are mentioned, but timeline and scale are unclear or are not a main focus.	Affordable housing benefits are limited.	Affordable housing benefits are not mentioned.		
Benefits to tenants	Tenant protections are clearly defined, expected timeline and scale are clearly outlined, and are realistic.	Tenant protections are mentioned, but timeline and scale are unclear or are not a main focus.	Tenant protections are limited.	Tenant protections are not mentioned.		
Benefits to labor and workforce development	Labor benefits and workforce development benefits are clearly defined, expected timeline and scale are clearly outlined, and are realistic.	Labor benefits and workforce development benefits are mentioned, but timeline and scale are unclear or not a main focus.	Labor benefits and workforce development are limited.	Labor benefits and workforce development are not mentioned.		
Benefits to outdoor air quality	Outdoor air quality benefits are clearly defined, expected timeline and scale are clearly outlined, and are realistic.	Outdoor air quality benefits are mentioned, but timeline and scale are unclear or not a main focus.	Outdoor air quality benefits are limited.	Outdoor air quality benefits are not mentioned.		
Benefits to indoor air quality and quality of life	Benefits to indoor air quality and quality of life are clearly defined, expected timeline and scale are clearly outlined, and are realistic.	Benefits to indoor air quality and quality of life are mentioned, but timeline and scale are unclear or not a main focus.	Benefits to indoor air quality and quality of life are limited.	Benefits to indoor air quality and quality of life are not mentioned.		
Climate resilience benefits	Climate resilience benefits are clearly defined, expected timeline and scale are clearly outlined, and are realistic.	Climate resilience benefits are mentioned, but timeline and scale are unclear or not a main focus.	Climate resilience benefits are limited.	Climate resilience benefits are not mentioned.		
Energy justice benefits	Energy justice benefits are clearly defined, expected timeline and scale are clearly outlined, and are realistic.	Energy justice benefits are mentioned, but timeline and scale are unclear or not a main focus.	Energy justice benefits are limited.	Energy justice benefits are not mentioned.		
Other benefits	Other benefits included in the proposal are clearly defined, expected timeline and scale are clearly outlined, and are realistic.	Other benefits are included in the proposal,but timeline and scale are unclear or not a main focus.	Other benefits included in the proposal are limited.	Other benefits are not mentioned.		





Draft

Draft Evaluation Form						
Highly Advantageous	Advantageous	Not Advantageous	Not Present			

#### **Qualitative Approach:**

- Allows for contextualization of information provided by applicants. A quantitative metric does not necessarily capture "why" and "how" of a proposed project.
- Better at capturing intangible aspects that may be difficult to quantify, i.e. community impact, social value, etc.
- Flexible and adaptable to new information that could be presented.



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**Evaluating EEIF Submissions** 

### After submission period closes

- Each Board Member will receive an individual packet including
  - Summary and full applications submitted
  - Personal spreadsheet with corresponding evaluation criteria and column for personal notes
- At a subsequent meeting, Board Members will discuss each project based on personal notes
  - Vote on funding decisions

### **Next Steps**



### If Board agrees, we will move forward with:

- Publicly sharing the project evaluation form for public input and Board feedback.
- Present revised updates at an upcoming meeting in March.









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For building owners

Key BERDO Deadlines for Building Owners			
May 15	Reporting deadline for 2023 energy and water usage.		
July 1* Long-term Hardship Compliance Plan application deadline.			
Contombox 1	Building Portfolio application deadline.		
September 1	Individual Compliance Schedule application deadline.		
October 1**	Short-term Hardship Compliance Plan application deadline.		

<sup>\*</sup>After 2024, long-term Hardship Compliance Plans are due **9 months before** the first year the HCP would be used.

<sup>\*\*</sup>Short-term Hardship Compliance Plans are due 3 months before the first year the HCP would be used.

### **Update on Events**

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#### **Completed**

- Webinars on Emissions Compliance (January 3), Building Portfolios (January 17), and Individual Compliance Schedules (January 31)
  - · Slides and recording available at <u>boston.gov/berdo</u>
- Green Ribbon Commission's Cultural Institutions Group Workshop on January 19
- Final Community Advisory Group meeting on January 25
- Commercial Real Estate Working Group Kick Off on January 31
  - · Minutes and Slide Deck available online
- Session with A Better City members on February 5

#### **Upcoming**

- Webinar Series held on Wednesdays from 3-4:30 pm
  - · Hardship Compliance Plans on February 14: Registration live.
  - Renewable Energy on February 28: <u>Registration live</u>.
- Community Conversation Follow Up on February 15
- Healthcare Institutions Working Group Kick Off on February 21

### **BERDO Resources**



#### **Emissions Planning Tool**

BERDO Emissions Calculator

#### Free Assistance in Completing BERDO Reporting and Third-Party Verification

- Extra assistance to complete their BERDO reporting. Funding is limited and will only be provided to building owners who are self-managed residential buildings, small non-profit owners, or commercial buildings with small business tenants.
- Application Form Second round due March 15!

#### One-on-one BERDO Building Consultation

- A member of the BERDO team will help you understand your current emissions and compliance options.
- Sign-up Form

#### **Weekly BERDO Emissions Planning Office Hours**

- Weekly office hours on Fridays at 10:00 am via Zoom. Members of the BERDO team will be available to answer questions about BERDO emissions estimates and potential compliance strategies.
- Sign-up Form

### **Review Board Members**

Update and open position

New Chair of the Environmental Justice, Resiliency, and Parks City Council Committee is **Councilor Gabriela "Gigi" Coletta.** A seat is reserved for this Chair or their designee.



City Councilor,
District 1

Open position on the Review Board must be nominated by a qualified community-based organization.



Nomination form open now

# **Community Based Organizations**

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Have received notification that <u>nomination form</u> is open

- Action 4 Equity
- Alternatives for Community & Environment
- Allston Brighton CDC
- Allston Brighton Health Collaborative
- Boston Climate Action Network
- Chinese Progressive Association
- Codman Square NDC
- Community Labor United
- Dominican Development Center

- Fenway CDC
- GreenRoots
- Jamaica Plain NDC
- New England United 4 Justice
- Neighborhood Association of the Back Bay
- Piers Park Sailing Center
- Reclaim Roxbury

# **Adjourn**

Thank you for your participation!

