



**Massachusetts Bay  
Transportation Authority**

## Environmental Department Update

Janis Kearney, MBTA Chief of Environmental  
Safety, Health and Environment Subcommittee Meeting  
January 11, 2024

# Discussion Topics



ENVIRONMENTAL  
DEPARTMENT  
STRUCTURE



DISCIPLINES

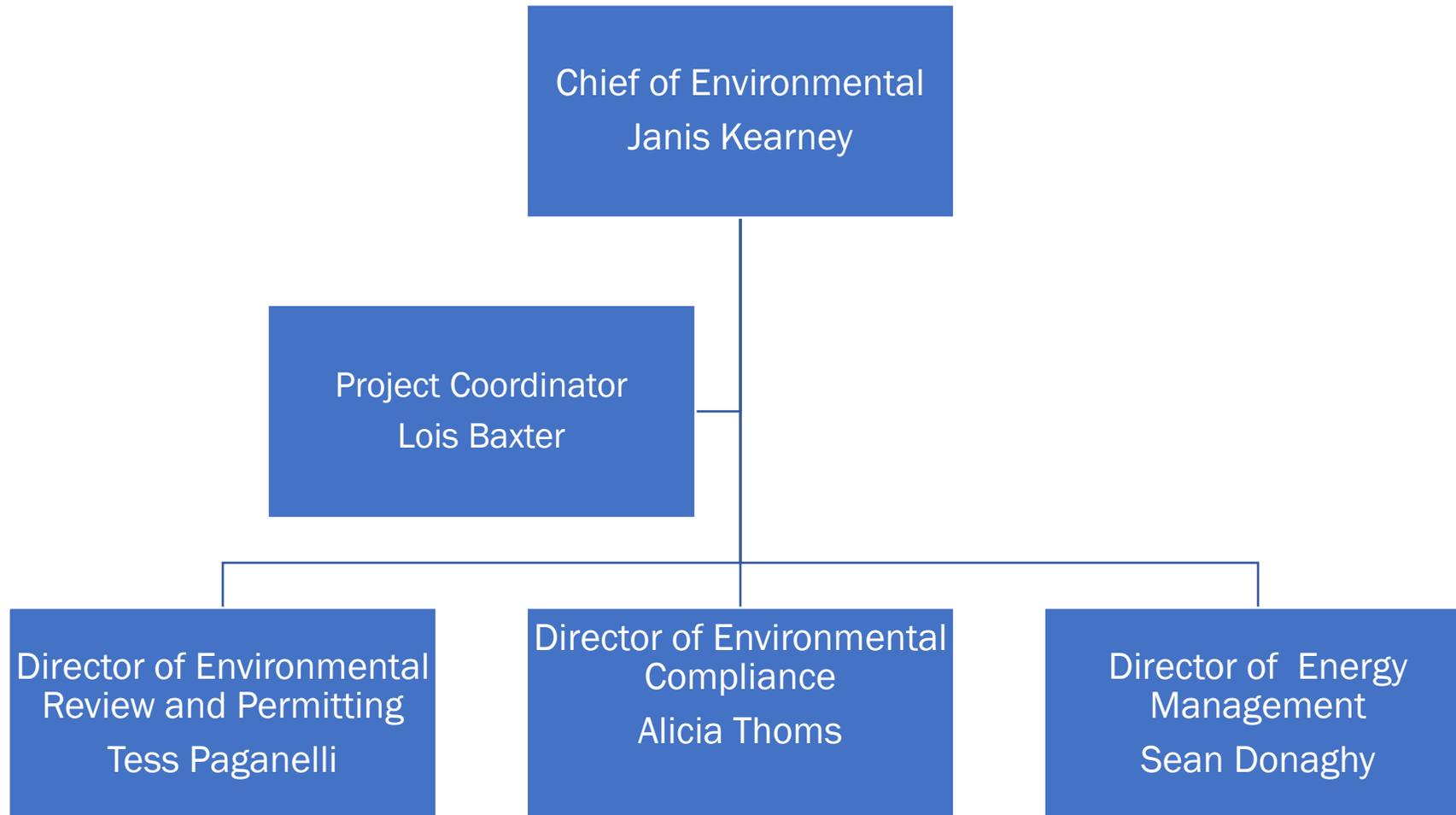


RECENT ACTIONS



2024 FOCUS

# Environmental Leadership Structure



# Environmental Department

- Department also continues to focus on increasing staff and reviewing employee classifications
- Environmental Department structure centers around three concentrations:
  - **Environmental Review & Permitting:** Support all capital projects to ensure appropriate environmental review and permitting of all projects
  - **Energy Management:** Procure and manage power and utility contracts. Coordinate and manage Energy Efficiency Program and projects.
  - **Environmental Compliance:** UST/AST, hazardous materials, land bank, recycling, wastewater treatment, air emissions, spill prevention plans, stormwater and vegetation Management
- Environmental efforts include:
  - Integrating resiliency, climate change, storm water efforts
  - Coordinating environmental work with MBTA capital projects
  - Conducting assessments and mapping of drainage infrastructure
  - Supporting and coordinating work with the **Climate and Resiliency Policy and Planning Department**

# Climate and Resiliency Efforts

- Environmental team is a key partner in the development of a new longer-range Climate Policy and Planning team
- That team is tasked with ensuring that the MBTA meets the policy objectives laid out in the Climate Chief's report, while also delivering on decarbonization goals, and investing in resiliency and climate adaptation for the future
- There are also recommendations for the MBTA included in the recent ResilientMass Plan to help ensure that some nearer-term hazards are addressed.
- Other efforts that are underway to help address longer-term needs supported by the Environmental Department include:
  - Conduct, prioritize and incorporate vulnerability assessments into MBTA Capital Investment Plan (CIP)
  - Identify hazards and risks
  - Facilitate structural and non-structural measures
  - Conduct sustainability assessments to help inform climate and resiliency planning

# Climate Resiliency Activities Internal Coordination

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## Capital Program

- Systemwide Tunnel Flood Mitigation Program: Tunnel portal doors, pump room upgrades
- Blue Line Program: Blue Line Master Plan Environmental Review; Scoping Blue Line Resilience Study
- Design standards: Updating design standards, MBTA Flood Directive
- Asset management – Capital needs assessment
- Additional infrastructure upgrades/programmed improvement projects in 0-15% design
  - Mattapan high speed line, southwest corridor modernization, bus facility modernization program

## Capital Planning

- Scoring of projects for climate resilience in the CIP
- Incorporating vulnerability assessments and resilience strategies into capital projects under design
  - Arborway Bus Garage, South Side Maintenance Facility

# Recent Environmental Actions



# Energy

## Wholesale Power

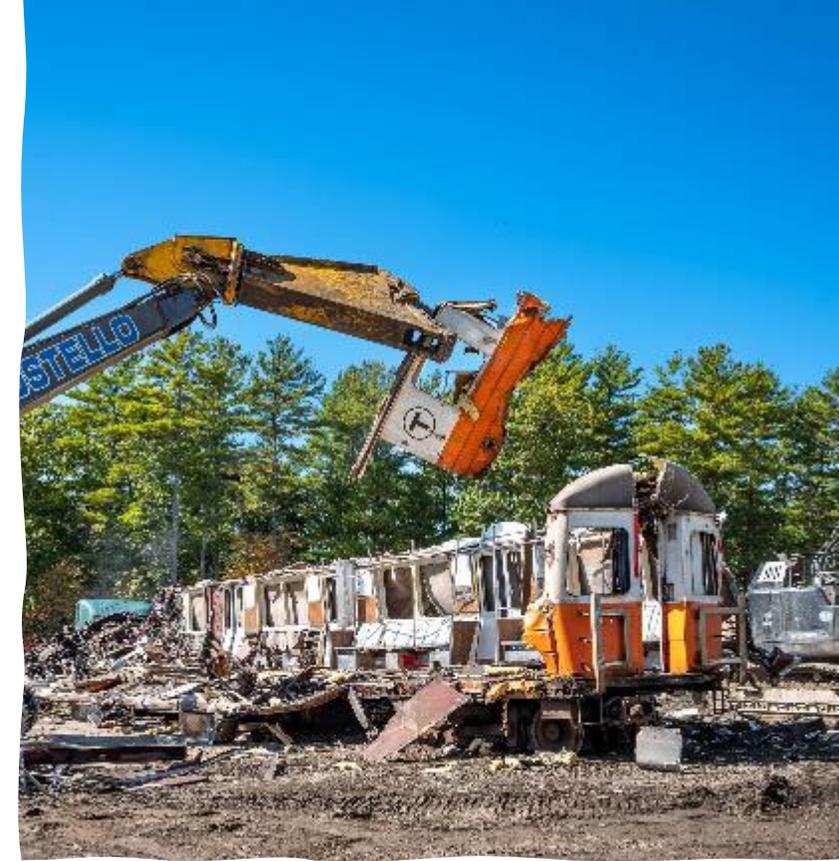
- Awarded to the lowest bidder, BP Energy
- 3-year contract through 12/31/2026
- 0.3% over total contract cost estimate
- Average price \$72.08/MWh
- Set up Master Purchase Agreement with BP Energy and NextEra Energy

## Renewable Energy Purchase

- Awarded to the lowest bidder, Skyview Finance Company 2, LLC
- 5-year contract to cover all MBTA electricity, 360,000 RECs annually
- 6% under total contract cost estimate
- 30% MA Class 1 RECs, average price \$38.30/REC
- 70% ME Class 2 RECs, average price \$6.75/REC
- Executed Master REC Purchase Agreements with  
Skyview Finance Company 2, LLC  
ACT Commodities Inc.  
Penn Oak Services LLC

# Bus, Subway and Commuter Rail Vehicle Decommissioning

- Successful removal and disposal of MBTA buses, orange line, red line and Keolis Commuter rail vehicles
- All rail vehicles require asbestos abatement in some capacity prior to dismantling; no hazardous materials were identified on the buses.
- Recyclable materials include non-ferrous metal from copper wiring and electrical components, light iron, aluminum and heavy steel.
- Salvaged memorabilia includes manufacture plates, destination signs, line and spider maps.





# Environmental Department Focus Areas

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- Updating and expanding environmental permitting checklists
- Mapping stormwater infrastructure
- Selecting GECs for climate change/vulnerability assessments
- Continuing to select environmental GECs
- Scoring CIP projects
- Decarbonizing planning
- Tracking GHG
- Continuing vulnerability assessments, and resiliency, stormwater and energy efficiency efforts
- Records and materials management

Questions?

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