

AEG Stakeholder Challenge on Grid Modernization

Boston, MA
August 17th, 2023



1. Overview. Massport's facilities are essential for trade, commerce, tourism and economic growth in the City, Commonwealth and New England



Aviation

- Logan Airport
- Hanscom Field
- Worcester Airport

\$ 22 billion of economic activity and 107,000 direct jobs

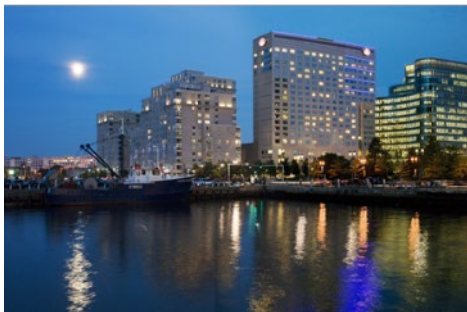
Massport's has set a goal to reach Net Zero by 2031 for emissions within its direct control (Scope 1 and 2)*and is working to influence Scope 3 emissions



Maritime

- Conley Terminal
- Flynn Cruiseport Boston
- Seafood Landlord
- Boston Autoport

massport
NET ZERO
BY 2031



Real Estate

- South Boston
- East Boston
- Charlestown

*Scope 1 – direct emissions from owned or controlled facilities; Scope 2- indirect from purchase and use of electricity.

2. Root of the problem of grid modernization: society wide, reaches all aspects of economy, competing needs

Opportunity

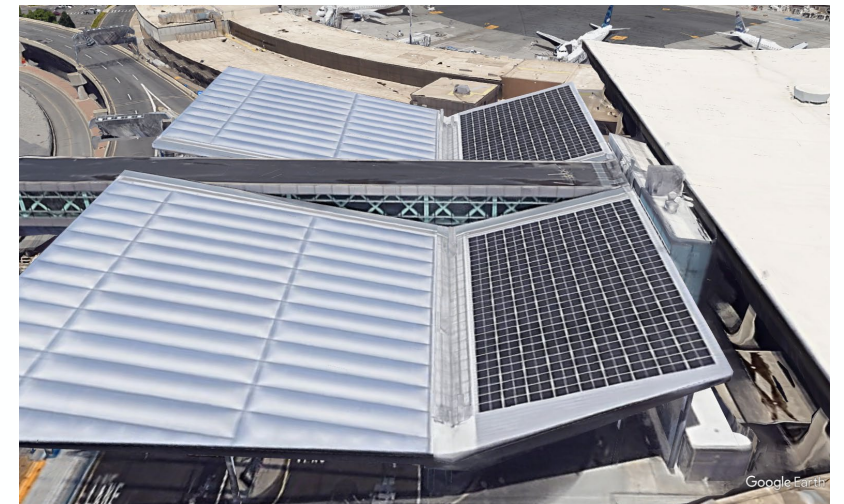
- The MA grid is relatively green compared to rest of the country
- Significant investments are underway to further green the grid
- Smart technology advancements and multiple strategies are available to address the problem

Challenges

- Demand is increasing everywhere as the entire Commonwealth drives to net zero
- There will be new and competing needs for land and generation in the near and intermediate term
- There isn't one single owner of investment decisions or who in control of permitting and timing

3. Massport's approach – no single solution, multifaceted strategy

- Need to maintain safety and operational reliability/efficiency in a complex operating environment with a constrained footprint
- Massport is conducting extensive analysis and studies to inform optimal strategy for our aviation and maritime campuses:
 - Demand, capacity, resiliency, on-site generation, smart grid/demand management, battery storage, electrification
- Thinking through infrastructure requirements, opportunities, challenges and assessment of the economics and lifecycle costs
 - Seeking to leverage federal, state, local government support, partnerships, and stakeholders



4. Benefits/Consequences of addressing or not addressing this obstacle

Addressing

- Key to achieving Net Zero
- Resiliency
- Drive down local emissions, benefiting nearby communities

Not Addressing

- Behind the curve on Net Zero
- Become locked-in to fossil fuel use missing emission reduction targets
- Green investment dollars diverted elsewhere
- Constrains economic development
- Lose public and policy support for key green investments

5. Final statement: Regarding Grid Modernization, to achieve Boston's climate, health & equity goals, a critical obstacle to collectively overcome in 12 months is....

...to identify critical infrastructure needs and shortfalls that will support a future, green economy and include:

- Transition strategies
- Holistic approach to include supply, distribution, demand, resiliency, innovation
- Identify equity goals and possible actions, such as
 - Workforce outreach, training
 - Disadvantaged business enterprises
 - Targeting neighboring communities