



**Massachusetts Bay
Transportation Authority**

Battery Bus Procurement Summary

May 16, 2022



Overview

- BEB Features and Details
- RFP Procurement Timeline and Status
- BEB Roll Out and Plan for Facility Replacement



BEB Features and Details

TECHNOLOGY

- CCTV system
- Contract Option for Collision avoidance system (Mobileye)
- Artificial sound generation

PROPULSION SYSTEM

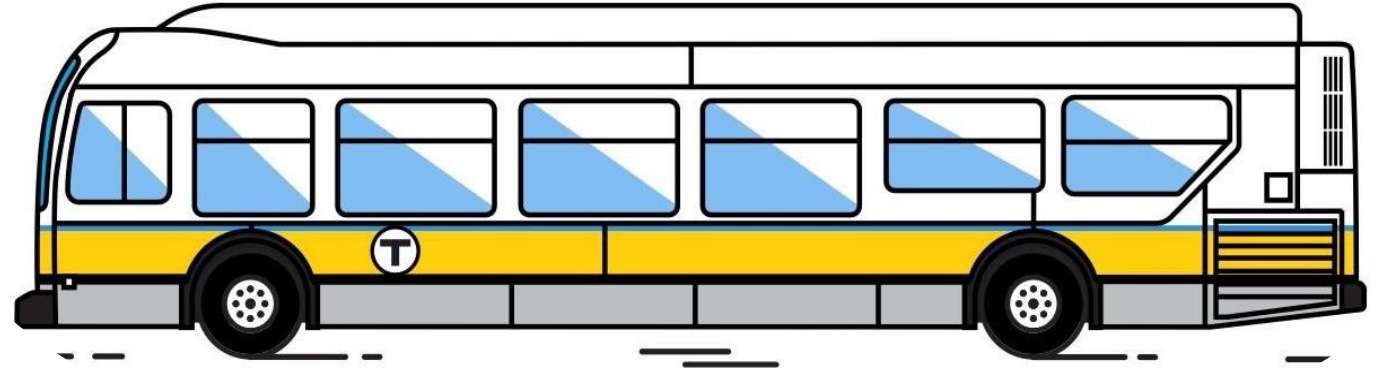
ESS (battery tub) capacity of at least 500 kWh
Effective range of 130-160 mi on a single charge

HVAC

- Dual mode diesel/electric auxiliary heating system
- Integrated Air Purification Solution
- Remote pre-conditioning for pullout

ENERGY STORAGE SYSTEM

- Seven (7) year base-warranty
- Four hours or less for full charge
- Contract Option for 14-year warranty



STRUCTURE

- 14-year 500,000-mile life
- Structural validation
 - Altoona Certification
 - Shaker table test
 - Strain gauge testing
- Corrosion resistant structure

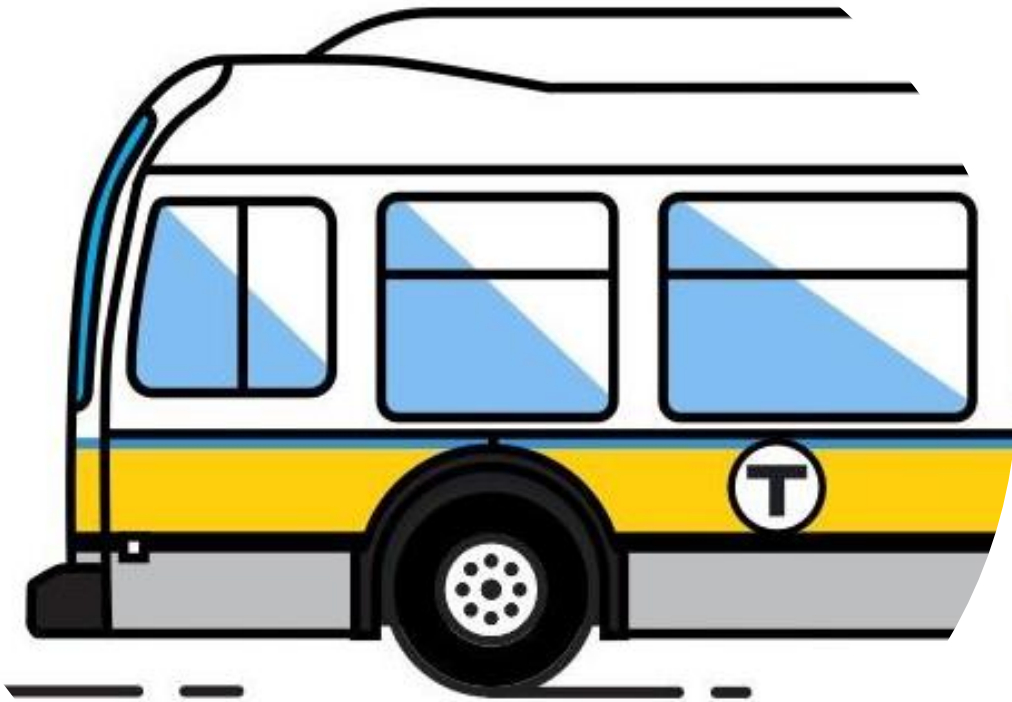
INTERIOR & EXTERIOR

- Driver barrier protection system
- Accessibility-center seating layout
- Painted exterior
- Contract Option for vinyl exterior



BEB RFP Timeline & Status

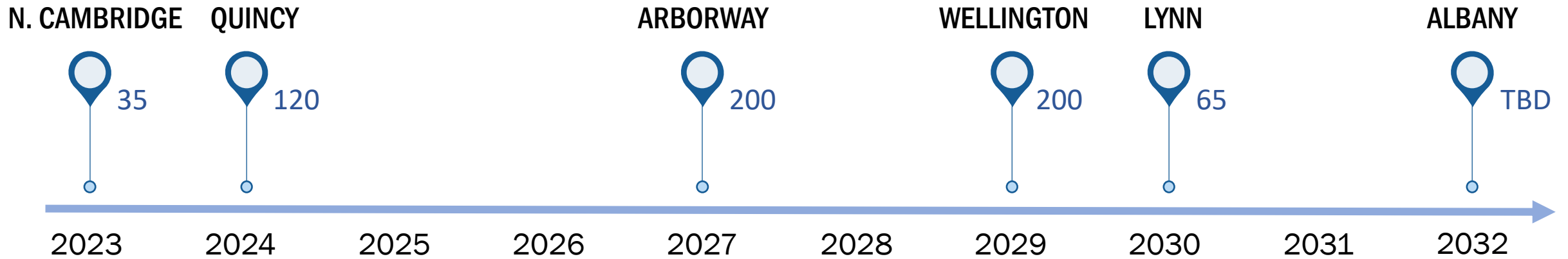
PROCUREMENT OF 40-FOOT LOW FLOOR BATTERY ELECTRIC BUSES



RFP 1F-22 Technical Specification No. VE21-054		
RFP Milestones	Milestone Dates	Status
RFP Release	April 22, 2022	Completed
Pre-Proposal Conference	May 6, 2022	Completed
Request for Clarification Deadline	May 26, 2022	
Final Addenda Deadline	June 1, 2022	
Proposal Due Date	June 22, 2022 @ 2 p.m. (ET)	
Board of Directors (Notice of Award)	Q3 CY2022	



BEB Roll Out & Plan for Facility Replacement



Sequence and target facility capacities driven by:

- **Equity:** Operating zero emissions buses in **transit critical communities** and on routes with **high ridership**
- **Fleet Needs:** Lining up facility replacements with the **retirement of specialty bus fleets** (e.g. legacy diesel, trolleybus, CNG)
- **Systemwide Capacity:** Replacing facilities that could be **moved to a new location first**, to open up swing space

