



Blandin Energy and Sustainable Storage Technology (BESST)

MetroWest Regional Transit Authority (MWRTA)

PROJECT PARTNERS

City of Framingham
495/MetroWest Partnership
Gannett Fleming Engineering & Architects PC
SGS North America Inc.
MetroWest Center for Independent Living (MWCIL)
CDW Group (DBE)
Ellana Inc. (DBE)



PROJECT CHALLENGE

Stage 1 of the BESST Project involves the planning and design of a comprehensive renewable energy generation and battery storage system at the MWRTA's facility. MWRTA will promote clean energy and resilience to climate change through innovative energy generation solutions. The Authority will explore the utilization of solar photovoltaics (PVs) and energy storage systems, which can provide vehicle-to-grid (V2G) power while ensuring a valuable charging resource for both its demand fleet and the community.

IMPACT

This project will be undertaken at the MWRTA's property, located entirely within a historically disadvantaged community (HDC) at 15 Blandin Avenue in Framingham, Massachusetts. MWRTA collaborates with local, state, and federal organizations that advance clean energy and sustainable practices to reduce the environmental impacts of government operations. MWRTA has incorporated newly installed air quality and atmospheric environmental sensors with existing technical resources designed to track progress toward achieving a zero-emissions future.

CURRENT STATE OF THE ISSUE

A Feasibility Study is underway; no stats are available yet; environmental sensors have been collecting baseline readings for longitudinal data.

STAGE 1 OUTCOMES

The design of Photovoltaic (PV) and Battery Backup Systems capable of charging and storing energy for the entire demand response fleet. Collect baseline emissions data from environmental sensors.

STAGE 2 VISION

MWRTA's A&E services will design an adequate scope for our BESST system and develop a timeline and budget for Stage 2 construction. In Stage 2, the MWRTA will begin and finalize the capital build-out of this project.