

Green School Works Overview

Green Communities + Leading by Example Summit

Presented by Meg Howard, Program Director
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MASSACHUSETTS
CLEAN ENERGY
CENTER®

EMERGING CLIMATE TECH

We help new climate-focused businesses grow faster by backing a vibrant community of researchers, startups, and established industry players - creating an ecosystem where they connect and thrive.



MASSCEC'S WORK BY FOCUS AREA

ACCELERATING DECARBONIZATION

We tackle barriers to widespread use of clean energy and climate technology in buildings, transportation, and the grid.



LARGE SCALE DEPLOYMENT: OFFSHORE ENERGY

We're building a cutting-edge offshore energy industry, marshaling world-class ports while addressing supply chain and workforce development challenges.



CLEAN ENERGY & CLIMATE WORKFORCE DEVELOPMENT

We're growing a diverse and talented clean energy workforce by supporting a dynamic network of community-based organizations, labor, training providers, schools and employers committed to a sustainable future for all.



Green School Works: Program Overview

The Challenge

Massachusetts has **±1,800** public school buildings. **Over 50% were built before 1970.** School districts are struggling with **financial and technical barriers** to building decarbonization.

The Approach

- **Technical assistance** to incorporate energy efficiency, resilience, and sustainability into capital planning
- **Implementation grants** for capital projects with a focus on existing buildings and low-income communities

Key Partners

- Department of Elementary & Secondary Education (DESE)
- Massachusetts School Building Authority (MSBA)
- Mass Save®
- Department of Energy Resources (DOER)
- Office of Climate Innovation & Resilience (OCIR)



Horace Mann Laboratory School, Salem (\$5M grant award)

18

Technical
assistance
studies funded

18

Implementation
projects funded
(Berkshires to
Barnstable)

\$52.6M

Funding awarded
to date

Technical Assistance

Low or no-cost support for decarbonization planning that focuses on modern, energy efficient schools

- **Enrollment open now!**
- ~\$5 million of funding available
- Designed to complement Mass Save offerings (e.g., by adding renewables analysis with the same vendor)
- Also available to non-Mass Save eligible schools
- For K-12 public schools that serve at least 40% students from low-income families
- Examples:
 - Solar analysis (rooftop, parking canopies, replacing/buying out existing system)
 - Ground-source heat pump analysis
 - Open to creative ideas that are filling a gap!


Going Solar

November 6, 2024

Thank you for your interest in going solar with Resonant Energy. We are pleased to present this proposal to installing solar panels on your rooftop.

In Direct Solar Ownership, purchases the panels and receives all of the electricity and state and federal incentives for solar. You may take out a loan to spread out the upfront cost for ten or more years.

	Direct Solar Ownership
Array Size	133 panels (64.5 kW)
Estimated Annual Output	25% of your usage (67,279 kWh)
Upfront Cost	\$248,344 (\$3.85 per Watt)
Estimated Lifetime Savings	\$563,172
Equivalent Trees Planted	787 Trees



Solar Layout (64.5 kW, Tier 1, 485 Watt Panels)

Please note that the solar layout is a preliminary design, and the array size and output are subject to change based upon final structural and electrical engineering.

RESONANT ENERGY

Upcoming Implementation Funding Round

Funding for clean energy infrastructure that improves energy efficiency, reduces carbon emissions or mitigates impacts of climate change.

- **Application will open soon!**
- Enroll in a comprehensive building assessment now to help prepare your school's application
- Anticipated Changes:
 - Adjusted eligibility criteria to prioritize schools serving a higher percentage of students from low-income families versus requiring that applicants serve at least 40% of students from low-income families
 - Focus on remaining ITC-eligible technologies: ground-source heat pumps and storage, including “recoverable grant” option to backstop the ITC
- \$19 million of funding available
 - Up to \$3 million per school
 - Up to \$5 million for recoverable grants
- Can be stacked with other funding

