



Project Highlight

Town of Wayland, MA



Solar and Efficiency Project
Provides Clean Energy
Resiliency and Cost Savings

Technology Type:

Solar PV | Energy Efficiency | LED Lighting |
Controls | Energy Savings Performance Contract
(ESPC) | Power Purchase Agreement (PPA)

Facilities

8 school and town buildings

Annual Solar Capacity

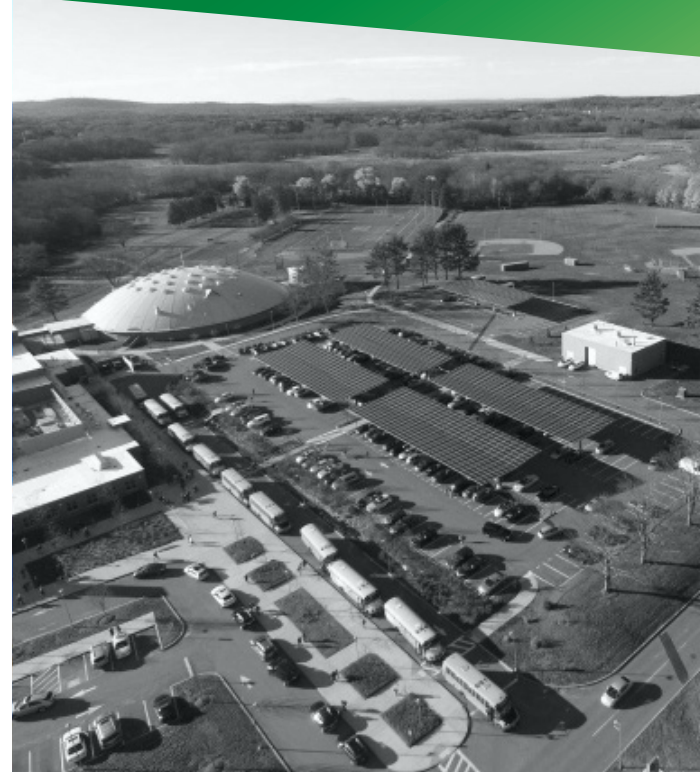
~1.4 MW

Annual Solar Generation

~1,300 kWh

Estimated Annual Electricity Offset

25%



Summary

Home to nearly 14,000 residents and a designated Green Community in the Commonwealth of MA, the Town of Wayland, partnered with Ameresco on a comprehensive energy efficiency, renewable energy, and resiliency initiative. The first phase of work included energy conservation measures and solar PV installations at four sites. In the second phase, an advanced resiliency initiative was implemented to ensure the Town's emergency shelter can access power in the event of emergencies that cause outages.



Solution

Phase one of the project included the design and implementation of efficiency measures at eight school and town buildings with guaranteed energy savings during the 20-year contract term. Through a PPA, Ameresco also constructed four solar PV installations at the Wayland High School, Wayland Middle School, Town Building, and DPW Facility. Phase two of the project paired the existing solar canopy facility at the Middle School, which also serves as the Town's emergency shelter, with the emergency generator to support the shelter during utility outages.

- Rooftop and solar canopies
- Energy resiliency controls
- LED lighting and controls
- Water conservation
- Weather-stripping and air sealing
- Demand-controlled ventilation
- Energy efficient motors
- Boiler improvements



We are thrilled with this innovative solution that will help Wayland weather future storms and provide our emergency shelter with power fueled by clean solar energy. Its location at the Middle School also will help students learn about the importance of resiliency as we look to the future.

Louise Miller
Former Wayland Town Administrator



Benefits

As part of its designation as a Green Community, Wayland is committed to reducing their energy consumption by 20%. Partnering with Ameresco on this comprehensive energy savings and capital upgrade program, empowered the Town to achieve their objectives, implement critical infrastructure projects, and secure energy cost savings. Additionally, the advanced resiliency project ensures that Wayland's emergency shelter can access backup power in the event of emergencies that cause outages. Other project benefits include:

- Energy cost savings of ~\$8M over project term
- Offset future capital expenditures
- Reduced heating and cooling loads
- Solar arrays generate electricity to offset 25% of municipal electric needs
- Solar renewable net metering credits
- Ensured continuity of power in the event of utility outage at emergency shelter
- Reduction of greenhouse gas emissions equivalent to the annual electricity usage in 113 homes

Ameresco's team of energy experts can assist you in identifying the solution that fits your needs.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please call **1-866-AMERESCO** or visit **ameresco.com**.

