

Contract Details

Contract Type:

Guaranteed Energy Savings
Performance Contract (ESPC); Solar
Power Purchase Agreement (PPA)

Facility:

ESPC: 7 School and Town Buildings
PPA: 4 Sites

Expected Energy Savings:

ESPC and PPA: Nearly \$8M Over
Contract



Through a Guaranteed Energy Savings Performance Contract, the Town of Wayland was able to replace old, inefficient equipment at Town and School buildings. More than 4,000 photovoltaic panels at four sites are expected to generate over 1.5 Million kWh AC of renewable electricity annually.

Summary

The Town of Wayland partnered with Ameresco on a comprehensive energy efficiency and renewable energy initiative, including solar PV installations at four sites, and energy conservation measures at eight facilities.

Customer Benefits

Wayland is an exemplary Town, committed as a Green Community to reduce their energy consumption by 20%. Partnering with Ameresco on a Comprehensive Energy Savings and Capital Upgrade Program, empowered Wayland to achieve their Green Community objectives, implement critical infrastructure projects, and attain energy cost savings.

Accolades

"The energy efficiency work in our town buildings and solar project allowed Wayland to both reduce our carbon footprint and save the town money on its operating expenses. The solar projects will help provide roughly 25% of our municipal electric needs. It has been a win-win for Wayland."

- Ellen Tohn

Co-Chair Energy Initiatives Advisory Committee

Environmental Benefits

The solar renewable energy produced and the energy saving efficiency projects will reduce the need for energy from traditional power plants fueled by fossil fuels. The carbon offset by the renewable power is equivalent to the annual electricity usage in more than 113 homes annually.

Services Provided

Ameresco designed and implemented efficiency measures at seven school and Town buildings, and guarantees energy savings during the 20-year contract term. The program allowed upgrades essential to continue effective operations of the Town and School facilities.

The project included lighting system improvements and controls, water conservation, weather-stripping and air sealing, variable frequency drives, demand-controlled ventilation, energy efficient motors, transformers, boiler improvements and replacements, oil to gas conversion, kitchen refrigerator and freezer fan controls, digital energy management and controls systems.

Each building in the project scope received lighting system improvements. For example, the direct/indirect lighting for the Library dramatically improved light distribution while providing substantial energy savings. A combination of new fixtures and individual fixture mounted occupancy sensors will allow for substantial savings in the gymnasiums.

Boiler improvements were made at all three Elementary Schools. Replacing equipment at the end of its useful life provides Wayland with new equipment that will save thermal energy and reduce ongoing maintenance costs, while providing an offset of future capital expenditures.

About Wayland

Wayland is a quiet bedroom community in a semi-rural setting with little industrial or commercial base, however the town is located in an area that provides easily accessible shopping, sightseeing, dining and entertainment. The Wayland Public School system is known as one of the finest in the state. Wayland takes great pride in its preservation of open space.

Learn more at

<http://www.wayland.ma.us>.

About Ameresco

Ameresco, Inc. (NYSE:AMRC) is one of the leading energy efficiency and renewable energy services providers. Our energy experts deliver long-term customer value, environmental stewardship, and sustainability through energy efficiency services, alternative energy, supply management, and innovative facility renewal all with practical financial solutions.

Ameresco and its predecessors have constructed billions in projects throughout North America and the United Kingdom.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please visit www.ameresco.com.



Solar parking lot canopy.

Services Provided (cont.)

The old oil-fired boiler serving the hot water system at the Town Library was converted to a new high-efficient gas-fired equivalent. The new equipment will reduce energy costs due to both improved efficiency and oil vs. gas rate differences.

Weather-stripping and air sealing reduce infiltration and energy savings will be achieved through reduced heating and cooling loads.

Through a power purchase agreement, Ameresco constructed four solar PV installations at the Wayland High School, Wayland Middle School, Town Building and new DPW Facility. The total installed capacity of the four installations is 1,335kW_{DC}, and the projects will generate over 1,500,000 kWh of clean, renewable electricity per year.

The solar PV projects generate net metering credits as well as tax revenue to the Town of Wayland. In addition to financial benefits, the projects sited at the Town Building, High School, and Middle School are solar canopies installed above the existing parking lot at each facility and provide protection from weather to vehicles parked underneath them and pedestrians walking below them. All four solar projects contribute to the reduction of greenhouse gas emissions reduction and the effects of climate change.

