



Contract Details

Contract Type:

Design / Build; Energy Information; MyEnergyPro™; Energy Savings Performance Contract; Power Purchase Agreement

Technology Type:

Energy Efficiency; Photovoltaic System; Renewable Energy

Facility:

7 buildings

Cost Savings:

\$2,737,909 over contract term

Energy Savings:

12,698,480 kWh over contract term

Energy Project Size:

570 kW

Summary

The City of Fall River selected Ameresco to implement a comprehensive energy efficiency and renewable energy solution to upgrade the City's infrastructure, reduce energy costs, and develop a green community. To achieve these goals, the City signed an ESPC and a PPA, which includes four solar photovoltaic systems.



For real-time energy information, visit: <http://solar.myenergypro.com/CityofFallRiver>



Fall River's Government Center underwent a lighting retrofit as delineated in the ESPC. The partnership with Ameresco required no capital cost from the City, and the City expects to save over \$2.7 million during the contract term.

Customer Benefits

The City of Fall River entered into a multi-phase project partnership with Ameresco to install energy efficiency improvements, as well as a renewable energy system.

The energy savings performance contract (ESPC) incorporated a federal grant and enabled the lighting retrofit with no capital cost from the City's budget. Implementation of the lighting upgrades saves energy, and results in annual maintenance savings, since the installation of new lamps and ballasts reduces service intervals. These measures improve the overall color, quality and consistency of the City's lighting, as well as provide lighting illumination levels in compliance with the current standards and reduce energy use.

The power purchase agreement (PPA) provided a no-capital-cost approach for the City to utilize renewable energy. Under the PPA, Ameresco designed, built and owns, operates and maintains the solar photovoltaic (PV) electricity generating systems. The PPA established a decrease in cost from the utility grid and is fixed, thus providing predictable future electricity budget costs, which are not subject to commodity electricity price spikes or utility distribution price inflation. Predictable budgets enable the City to plan annual budgets without sudden surprises that affect City services and school budgets. In addition, the City's electricity prices are shielded from carbon trading or carbon tax legislative price increases.

Accolades

"Not only will this deal help us become more energy efficient today, but it will save the city money over the next two decades. My administration will continue to work with companies like Ameresco to find ways to make our government run more efficiently into the future."

*- Will Flanagan, Mayor
City of Fall River*

Environmental Benefits

Through the City's partnership with Ameresco, Fall River is expected to save the equivalent of 11,703 metric tons of CO₂ per year. The green benefit from this carbon reduction is roughly equal to:

- ▶ 2,495 acres of pine forest absorbing carbon
- ▶ 2,295 cars taken off the road for one year
- ▶ 1,013 households powered for one year

The project helps reduce the need for energy from traditional power plants fueled by fossil fuels.

Services Provided

Ameresco installed new lighting controls in order to prevent lighting from operating when not in use. Energy waste occurs when a fixture is energized unnecessarily while an area is unoccupied. Automatic controls can eliminate many energy management problems caused when occupants leave a space. Ameresco proposed daylight harvesting ballasts for perimeter fixtures and new daylighting fixtures contain an auto-dimming ballast with an individual photocell. Each fixture automatically adjusts its output according

About the City of Fall River, MA

Fall River is a city in Bristol County, Massachusetts, in the United States. It is located about 46 miles south of Boston. The city's population was 88,857 during the 2010 census, making it the tenth largest city in the state. Located along the eastern shore of Mount Hope Bay at the mouth of the Taunton River, the City became famous during the 19th century as the leading textile manufacturing center in the United States. While the textile industry has long since moved on, its impact on the City's culture and landscape remains to this day.

Learn more at www.fallriverma.org.

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.

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



The PV installation on the Silvia Elementary School rooftop.

Services Provided (cont.)

to how much natural light is available near the particular fixture.

The new lighting system was designed to maintain or improve lighting levels in designated areas. It also resulted in a smaller connected electrical load. To enhance the lighting system improvement project, Ameresco included ceiling replacements for certain portions of the Government Center. Two City schools and the Government Center retrofitted 3,400 efficient light fixtures. The new energy efficient fluorescent lamps operate on energy efficient electronic ballasts, and all incandescent lights were replaced with compact fluorescent lights (CFL) and/or LED lights.

Ameresco designed and built four PV systems for the City. These installations are located at the Water Treatment Plant, the Edmund P. Talbot Middle School,



The ground mount PV installation at the Water Treatment Plant.



the Frank M. Silvia Elementary School, and the Matthew J. Kuss Middle School. The Water Treatment Plant is rated 109 kW, Frank M. Silvia Elementary School is 73 kW, Matthew J. Kuss Middle School is 161 kW and Edmund P. Talbot Middle School is rated 227 kW. The combined system consists of 2,624 solar modules and will produce 739,169 kWh annually.

As an educational benefit for the schools, Ameresco offered an extensive amount of teaching materials for teachers to utilize in the classroom; these materials have been prepared to meet the lesson guidelines as outlined by Massachusetts Learning Frameworks. Each lobby is equipped with an LCD television kiosk, which utilizes Ameresco's proprietary software, MyEnergyPro™, to display key solar performance data through pictures, graphs and text in a user friendly way. The data includes weather conditions, system performance, project photos and information. Historical production values and CO₂ offset and equivalencies are available. The data updates every 15-minutes throughout the day. A public website is available to the community to access to the information at any time.



The upper image from the MyEnergyPro™ software features CO₂ offset and equivalencies; the lower image features historical energy data.