



Project Highlight

Wakefield Municipal Gas & Light Department, MA

AMERESCO 

Solar Systems Provide Sustainable, Clean Energy Supply for Local Community

Technology Type:

Solar PV | Power Purchase Agreement (PPA)

Total System Capacity

230 kW

Solar Arrays

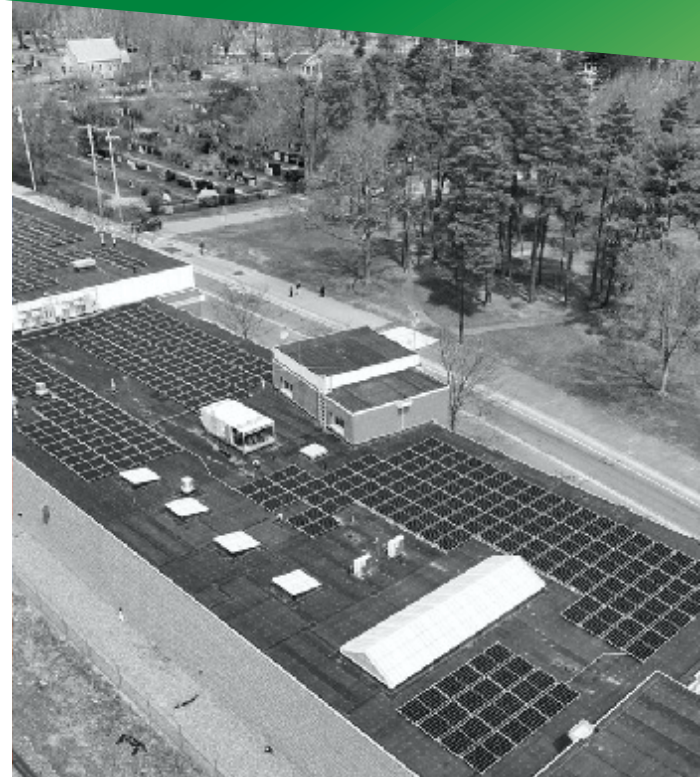
470 PV modules

Annual Energy Generation

~262,000 kWh

CO₂ Reduction Equivalency

180+ metric tons/year



Summary

Looking to align sustainable energy resources with power supply demands, the Wakefield Municipal Gas & Light Department (WMGLD), partnered with Ameresco on an energy efficient solar system. The work included two solar installations totalling 230 kW. One system is designed for off-site efficient clean energy utilization by the community, and the other for on-site energy utilization, delivering reliability and flexibility for WMGLD.



Solution

Ameresco's collaboration with WMGLD focused on installing solar arrays to boost Wakefield's energy sustainability and reliability. The project involves two systems: a community solar array and a net metered array. Ameresco provided comprehensive project management, design, and installation services, ensuring timely and efficient completion.

- Installation of 470 solar PV modules
- Site A (front-of-the-meter): 124.5 kW community solar array
- Site B (behind-the-meter): 106 kW net metered solar array



“Collectively, we are always looking for opportunities to maximize our environmental impact in line with our power supply decisions, and this collaboration with Ameresco represents a perfect opportunity for us to continue to find ways to support our clean power efficiency. This collaboration firmly aligns with our commitment to being a responsible leader and steward to the environment.”

Vinnie McMahon
Senior System Engineer, WMGLD



Benefits

These solar installations offer significant environmental and economic benefits, contributing to Wakefield's clean energy goals. The project is designed to lower operational costs, reduce carbon emissions, and enhance energy reliability for the community. Key benefits include:

- Enhanced efficiency of renewable power supply for on-site and off-site utilization
- Increased renewable energy production to support community and WMGLD needs (~143 MWh and ~119 MWh from sites A and B respectively)
- Reduction in carbon footprint by 180+ metric tons of carbon dioxide annually
- Improved energy reliability and flexibility

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**.

