

# Niantic Community Church



Niantic Community Church is a federated Methodist and United Church of Christ (UCC) congregation, located in Niantic, Connecticut, that welcomes all to attend. In addition to regular weekday services, the church hosts a daycare center and Sunday church school for children.

On behalf of the Connecticut Green Bank, MHR Development provided project development services to support an extensive clean energy retrofit that included energy conservation measures as well as renewable energy generation. The project scope included LED lights with occupancy sensors, building envelope improvements, HVAC improvements, and installation of a roof-mounted solar photovoltaic system that will generate approximately 31,000 kWh per year.

This is the first project in the State of Connecticut to receive financing from the Connecticut Green Bank that incorporates both the Property Assessed Clean Energy (C-PACE) funding as well as a power purchase agreement (PPA). The solar system will receive Renewable Energy Credits (ZRECs) for a 15-year term.

*“Our church is always working hard to make its budget so the energy efficiency program helps a lot. We’re very happy with the program. We’re producing more electricity than projected and we’re saving money because we buy our own excess power at a reduced rate. Plus, we have many new windows and much new lighting which didn’t cost us anything -- our normal payments for utilities just shifted to pay for the project. Otherwise, we would have had to raise \$25,000 just for the windows and doors.”*

**Bob Castronova**  
President  
Niantic Community Church

## NONPROFIT

Project: Multi-Measure Energy Retrofit  
Size: 16,225 sq. ft.  
Type: Institution / Church  
Address: 170 Pennsylvania Avenue; Niantic, CT  
Website: [www.nianticcommunitychurch.org](http://www.nianticcommunitychurch.org)

## SUSTAINABILITY UPGRADES

- Roof-Mounted Solar PV System
- Envelope Improvements:  
Low-E Windows & Roof Repairs
- LED Lighting Retrofit with Controls  
(Exterior / Interior)
- High Efficiency Electric Mini-Splits

## BENEFITS



Grid-Supplied Electricity Reduction:  
40,000 kWh / year



Utility & Operational Savings:  
\$13,000 / year



CO<sub>2</sub> Emissions Reduction:  
+1,000,000 lbs. / year



Energy Generation from Solar PV:  
31,000 kWh / year



LED Lighting:  
Cooler, Quieter, More Efficient

Note: these numbers are approximations and based on baseline results.

## FUNDING



Source: Google Earth

**MHR DEVELOPMENT**  
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