

# Trinity Episcopal Church

## Watertown, NY, Jefferson County

### Background

Trinity Episcopal Church constructed an 11,200 square foot addition to the existing church consists of a meeting hall, administrative spaces, kitchen, nursery and bathrooms. Novus Engineering, P.C. was retained by NYSERDA to evaluate electric energy efficiency opportunities for the major renovation and addition under the New York Energy Smart New Construction Program.

### Recommendations

Novus identified cost-effective improvements to the building and its systems that will reduce its energy consumption, decrease demands on the utility's distribution system, and increase occupant comfort. Among the energy efficiency improvements implemented in the building were:

- Enhanced walls, windows (glazing) and doors
- Enhanced roof insulation
- High efficiency interior and exterior lighting and lighting controls
- High efficiency HVAC units
- Heat recovery units with demand controlled ventilation

### Incentives and Results

NYSERDA's incentive of \$13,470 helped the Trinity Episcopal Church defray a portion of the implementation cost to install the efficiency improvements. In total, the Church's investment could result in:

- Annual Energy savings of more than 15,243 kWh
- Peak demand savings of 15.1 kW in the summer
- Annual Energy Cost savings of almost \$4,698

The Trinity Episcopal Church project is 32% above the energy code that was used for this project.

