

Paul Smith's College, Countess Alicia Spaulding-Paolozzi Environmental Research and Education Center

Brighton, NY, Paul Smiths Hamlet, Franklin County

Background

The new 6,000 square foot, two-story building was constructed using techniques consistent with the environmental aims of the Adirondack Watershed Institute (AWI), now housed in the center. The educational research facility incorporates office space, a research laboratory, and will serve as a showcase for contemporary environmental systems.

Science Applications International Corporation (SAIC) was retained by NYSERDA to evaluate electric energy efficiency opportunities for the new building under NYSERDA's New Construction Program.

Recommendations

SAIC reviewed energy simulation models for both baseline and proposed building designs for compliance with appropriate ASHRAE and LEED modeling protocols to calculate financial incentives available for the project

Among the energy efficiency improvements implemented in the building were:

- Improved Building Envelope Insulation
- High Performance Window Glazing
- High Efficiency Lighting with Occupancy Sensor Controls
- High Efficiency Water to Air Heat Pumps

Incentives and Results

NYSERDA's incentive of \$20,358 helped Paul Smith's College defray a portion of the implementation cost to install the efficiency improvements. In total, Paul Smith's College investment could result in:

- Annual Energy savings of more than 17,177 kWh
- Peak demand savings of 2.8 kW in the summer
- Annual Energy Cost savings of almost \$2,037
- Simple payback (after incentive) of 2.49 years for project

The Countess Alicia Spaulding-Paolozzi Environmental Research and Education Center is 40.6% above ASHRAE 90.1-04 PRM G..



“ NYSERDA and SAIC were great to work with. They were both extremely helpful and collaborative. Paul Smiths College’s participation in NYSERDA’s New Construction Program enabled the successful completion of our High Performance Building “.

“ We had such great success working with NYSERDA and SAIC on our Research Center we have partnered again. This time on a significantly larger student housing project “.

-Steven McFarland