

# Five Rivers Environmental Education Center

## Delmar, New York



**Project Timeline:** 2009-2012

**NCP Incentive:** \$54,423

**Novus Engineering, P.C.** is currently working with the NYS Department of Environmental Conservation to review the design and develop a whole building model for the new Five Rivers Environmental Education Center in Delmar, New York. The new education center will be approximately 11,300 square feet and will include a Visitor Center and Guided School Program building. Novus' primary responsibilities for the project include developing the energy model and acting as the building commissioning agent. Novus will

also provide documentation services for a number of LEED® points. Novus expects to provide documentation for the following points under LEED® 2009 (v3) for New Construction:

- EAp1 – Fundamental Commissioning
- EAp2 – Minimum Energy Performance
- EAc1 – Optimize Energy Performance
- EAc2 – On-Site Renewable Energy
- EAc3 – Enhanced Commissioning
- EAc5 – Measurement and Verification

In addition to providing LEED® and commissioning services, Novus completed a whole building modeling analysis in order to determine annual energy savings and potential incentives through NYSERDA's New Construction Program. Building energy enhancements include enhanced building envelope construction, high performance glazing, energy efficient lighting and occupancy controls, daylighting control, high efficiency geothermal heat pumps, heat recovery ventilation, demand controlled ventilation, and variable speed drives on pumps. Compared to a baseline building meeting the requirements of ASHRAE 90.1-2007, the enhanced design is expected to be over 50% more energy efficient, with an annual energy savings of 80,000 kWh.

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