

North Syracuse Central School District



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North Syracuse, New York

Background

The North Syracuse Central School District and NYSERDA have partnered to improve the efficiency, health, and comfort of the District's buildings. In 2002, the District received an incentive of \$9,460 from the **New York Energy SmartSM** Smart Equipment Choices Program to install high-efficiency lighting, daylight dimming controls, and vending machine occupancy sensors. The improved controls and lighting provide a better environment in the school and cost less to operate.

Initiative and Results

North Syracuse School District partnered again with NYSERDA on more comprehensive building projects through the **New York Energy SmartSM** New Construction Program for the renovation of the Gillette Road Middle School, the Main Street Elementary School, and the Roxboro Road Elementary School. The school is receiving an incentive of **\$184,440** for the installation of: daylighting, high-efficiency lighting, occupancy controls, high-efficiency chillers, CO₂ sensors in the ventilation system or "Demand Control Ventilation," high-efficiency rooftop HVAC systems, premium-efficiency motors and variable speed drives.

The North Syracuse School District worked with Ashley McGraw Architects, P.C. to research high-performance schools and sustainable design practices, or what is commonly known as "Green Buildings." As a result of this research, and the District's commitment to providing the best learning environment for its children, the design team of Ashley McGraw Architects, P.C.; C&S Engineers; and Ross Wilson and Associates are building a high-performance school that will meet the U.S. Green Building Council's **Leadership in Energy and Environmental Design, or LEEDTM** rating. A partial listing of sustainable and "green" features that are being considered for the Roxboro Road Middle School includes:

- A photovoltaic system and a learning center for students to study renewable power;
- High-efficiency heating, ventilating and air-conditioning system with advanced controls that provide increased ventilation effectiveness and occupant comfort;
- High-efficiency windows;
- Advanced daylighting strategies and better access to views for all building occupants;
- High-efficiency kitchen equipment;
- Low-emitting materials;
- Indoor chemical-pollutant source control; and
- Better lighting and ventilation control to provide improved occupant comfort, satisfaction, and health.

In addition to building improvements, the North Syracuse School District applied for and received a **\$154,000** grant to retrofit 98 buses with diesel oxidation catalyst emission reduction devices, ensuring a healthier ride to and from the schools. Funding for this project came from Governor Pataki's 1996 Clean Water/Clean Air Bond Act.

"The partnership among the North Syracuse School District, the State Education Department, the design team, and NYSERDA has produced one of the best examples of high-performance school design in New York State. These projects will benefit the District, the children and the taxpayers for years to come."

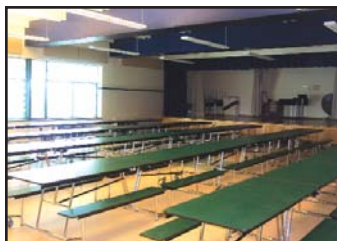
Peter R. Smith
President, NYSERDA



Efficient lighting and controls make the art room a more comfortable learning environment.



Effective daylighting, as shown here in the library, can significantly improve student productivity.



The recently upgraded lighting and HVAC reduces operation costs for the District.



New high-efficiency cooling systems will save the District money and provide a more comfortable environment for the buildings' occupants.



For more information about these services, contact NYSERDA
toll free 1-866-NYSERDA, locally (518) 862-1090,
or e-mail: info@nyserdera.org or
www.nyserdera.org/programs/techasst.asp

