

West Valley Central School District



West Valley Central School District Improves Energy Efficiency

West Valley, Cattaraugus County

Background

The West Valley Central School District recently completed a large-scale renovation and expansion project of its existing school building. The project consisted of upgrading this building to better provide 21st century educational services to its students, and provide an improved learning and teaching environment.

West Valley Central School District sought to incorporate energy-efficient equipment and measures during the renovation. It applied for assistance through NYSEERDA's **New York Energy \$martSM** New Construction Program, and, as a result, an energy analysis was completed by Wendel Duchscherer Architects and Engineers PC, a NYSEERDA technical consultant. The analysis was performed in cooperation with the project architect, Thomas Associates.

Recommendations

The energy analysis recommended several measures to reduce electrical consumption at the school, including:

- High-efficiency lighting fixtures and occupancy sensors
- Direct digital-control energy-management system including an electrical demand-limiting feature

Incentives and Results

NYSEERDA's **\$15,298** incentive to install these energy-efficient measures resulted in:

- Annual operational savings of \$2,350 or 20,277 kWh
- Peak-demand energy savings of 269 kilowatts during the summer
- Annual CO₂ emissions reduction of 8.95 tons

The improved building-control system monitors all new and existing classroom ventilators, air handlers, boilers, and hot water systems.

"Like a lot of schools in the State, the West Valley School buildings were not constructed with energy efficiency in mind," observed superintendent Charles Rinaldi. "NYSEERDA's New Construction Program helped identify some relatively easy ways to save energy and redirect those dollars into resources for our students."

"We find it refreshing to see a government agency take a proactive role in investigating and investing in alternative fuels and systems."

- Charles Rinaldi,
Superintendent,
West Valley Central School



New York Energy \$martSM

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New York Energy \$martSM programs are designed to lower electricity costs by encouraging energy efficiency as the State's electric utilities move to competition. The programs are available to electric distribution customers (residential, commercial, institutional, and industrial) who pay into the SBC.



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