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CASE STUDY

MECHANICVILLE CITY SCHOOL DISTRICT EDUCATING TODAY'S YOUTH TO BE TOMORROW'S LEADERS

ENERGY PERFORMANCE PROJECT

ABOUT MECHANICVILLE CITY SCHOOL DISTRICT

The Mechanicville School District has changed from a highly industrial and railroad center to a community which has light industry and is a bedroom community to the Capital District. The school district includes the City of Mechanicville, parts of the Town of Stillwater, Schaghticoke and Halfmoon. The proximity of the district to the capital district, Saratoga and the Adirondack area makes it a convenient location to live and commute to major area employers, such as the State of New York and General Electric.

Mechanicville City School District offers a variety of large school experiences in a small school setting. These experiences, when combined with the strong support of the community, make Mechanicville Schools' family setting conducive for success.

The project broke ground in the spring of 2006 when we began upgrading the facility. Many efficiency measures were included in this project.

The existing boiler systems on the campus was upgraded with a new modulating boiler. The campus was also fitted with 3 Combined Heat and Power (CHP) units. These units run grid parallel to produce about 80% of the electricity at each building.

Included in the project was a full lighting upgrade and retrofit. The building envelope was addressed with a full weatherization package. New double pane high efficient U factor windows were installed, and a digital control system was installed to automate all of the mechanical equipment installed.

PROJECT SUMMARY

- PROJECT SIZE: \$1,272,438
- ANNUAL SAVINGS: \$70,691
- NYSERDA REBATE: \$55,210
- NET COST TO CLIENT: \$1,217,228
- SQUARE FOOTAGE: 187,790
- SIMPLE PAYBACK: 18 YEARS
- ENVIRONMENTAL IMPACT: 546,081 KWH REDUCTION = TO 77 CARS OFF THE ROAD ANNUALLY

