# Syracuse City School District

Syracuse, NY

## Background

The Syracuse City School District, Onondaga County, sought to renovate and expand the McKinley-Brighton Magnet School. It wanted to incorporate energy efficiency into the project starting at the planning stage. The goal of the school district was to reduce operating costs and improve health and comfort for students and staff.

The Syracuse City School District contacted NYSERDA and applied for design and implementation assistance through the New Construction Program. Science Applications International Corporation (SAIC), a NYSERDA technical assistance consultant, worked with the project team including RSA Architects and Ram-Tech Engineers to complete an energy feasibility study.

## Recommendations

This study identified economically feasible improvements, the associated savings, and an installation incentive. Recommended measures included:

- Variable-air-volume ventilation systems with variable-speed drives on supply and return air fans
- Economizer control on air-handling units
- Carbon-dioxide sensors for ventilation control on gym and cafeteria air-handling units
- Lighting, occupancy sensors, premium-efficiency motors and Energy Star® transformers
- Building commissioning

## Incentives and Results

NYSERDA's incentive of $150,076 will help the Syracuse City School District achieve:

- Annual energy savings of $55,593 (422,446 kWh)
- Peak summer-demand reduction of 97.8 kW
- Simple payback of 1.1 years
- Annual emissions reduction of more than 186 tons

***"The renovation of McKinley Brighton School and the use of energy-efficient technologies will help the district save money and improve the learning environment. NYSERDA's incentives helped make this project a reality."***

*–Ronald Kenyon, Facilities Engineer, Syracuse City School District*

To find out how you can reduce your energy consumption and costs, visit NYSERDA.NY.GOV.

EES-CI-syracusecity-cs-1-v1 12/11

nyserda
Energy. Innovation. Solutions.