New Construction Program

Elmira City School District

Elmira City School District

Elmira – Chemung County

Background

The Elmira City School District renovated and expanded the Hendy Avenue School which was constructed in 1929. The school building and gymnasium had become outdated and no longer met the space requirements of the district. As a result, the district sought to renovate 32,400 square feet of existing building and construct a two-story, multi-use addition consisting of 46,700 square feet.

At the onset of the project, the Elmira City School District contacted the New York State Energy Research and Development Authority (NYSERDA) and applied for design and implementation assistance through the **New York Energy $mart**SM New Construction Program. Science Applications International Corporation (SAIC), a NYSERDA technical assistance consultant, worked with the project team from Beardsley Design Associates to complete an energy feasibility study.

Recommendations

The energy feasibility study identified economically feasible improvements with associated savings. The recommended saving included:

- Variable volume main heating loop pumping
- High efficiency HVAC systems with heat recovery
- High efficiency fluorescent lighting and controls
- Premium efficiency motors, and
- Variable speed drives

Incentive and Results

The **New York Energy $mart**SM New Construction Program provided a $58,907 incentive to implement the recommended measures. Once fully implemented, the measures will result in:

- Annual electric energy savings of $21,662
- A reduction of 154,727 kWh in energy use
- Avoided peak summer demand of 26.7 kW
- Avoided peak winter demand of 25.5 kW, and
- 68 ton annual reduction of carbon dioxide emissions

New York Energy $martSM

All **New York Energy $mart**SM programs are funded by a System Benefits Charge (SBC) paid by electric distribution customers of Central Hudson, Con Edison, NYSEG, Niagara Mohawk, Orange and Rockland, and Rochester Gas and Electric. NYSERDA, a public benefit corporation established by law in 1975, administers SBC funds and programs under an agreement with the Public Service Commission.

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.

NYSERDA

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

New York Energy $martSM
Public Service Commission — NYSERDA