

Chiller Optimization, Energy Efficient Lighting, Controls and Building Envelope Improvements

Control Heating and Cooling Cost



Nyack Hospital is a multi-structure building complex located at 160 Midland Avenue in the City of Nyack, New York, is owned and operated by Nyack Hospital. The 438,050 square foot structure is utilized as a hospital and outpatient facility including the new cancer care center. The facility has seven major sections; all contiguous, each depicted by the year of construction including the following: 1900, 1920, 1961, 1970, 1983, 1995 and 1999. The New York State Energy Research and Development Authority co-funded a comprehensive energy audit conducted by Optimized Energy Services, Inc. to help reduce building operational costs and save energy.

Project Objectives

The objective of the comprehensive energy audit was to identify energy efficient alternatives to providing existing cooling and heating, lighting, solar gain reduction, infiltration and negative pressurization, electric system harmonics improvements and pipe insulation throughout the facility. Through NYSERDA's Technical Assistance program, Nyack Hospital received a matching grant to have an engineering study completed for the evaluation of energy efficiency opportunities.

Measures Recommended

NYSERDA's study concluded that through eleven recommended energy conservation measures that included: energy efficient lighting, energy efficient motors, variable frequency drives, window film, pipe insulation, weatherization improvements, window replacement, chiller replacement and optimization, electric harmonics system improvements, cooler fan controls and boiler oxygen trim control improvements the facility could reduce electrical consumption by 3% and reduce facility utility costs by over 10%.

- Cost of Recommended Measures - \$1,234,699
- Energy Savings - \$ 150,039
- Simple Payback Years - 8.2 years

About the Technical Services Program

NYSERDA's Technical Assistance programs identify opportunities for New York businesses to increase competitiveness by using energy more efficiently and improving productivity. This project was funded under NYSERDA's New York Energy Smart program, which helps utility customers take advantage of opportunities to save energy that are emerging as a result of the newly deregulated, competitive utility industry. For more information about this and other NYSERDA programs, call Ms. Jaime Ritchey at (518) 862-1090, ext. 3517, or visit our website at www.nyserda.org