

Energy Efficient Boilers, Energy Efficient Lighting, Controls and Building Envelope Improvements

Reduce Energy Consumption And Improve Comfort



Arden Hill Life Care Center facility is located in Newburgh, New York. It is a two-story skilled nursing care facility. The 58,000 square foot facility consists of 106 resident apartments with a centralized laundry and kitchen facility. Originally constructed in 1975, the facility had another addition in 1988. The facility provides lighting, heating, air-conditioning, hot water and other related services to the occupants and staff utilizing standard efficient technologies. The New York State Energy Research and Development Authority worked with Arden Hill Life Care Center to help reduce building operational costs and save energy through the co-funding of a comprehensive energy audit.

Project Objectives

The objective of the comprehensive energy audit was to identify energy efficient alternatives to providing existing site lighting, lighting controls, energy efficient motors, variable frequency drives, building heating, and building domestic hot water production as well as making improvements to the existing building envelope of the facility. Through NYSERDA's Technical Assistance program, Arden Hill Life Care Center 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 nine recommended energy conservation measures that included: energy efficient lighting, lighting controls, exhaust fan control, energy efficient window replacement, exterior door weatherization, energy efficient boilers, energy efficient motors, variable frequency drives and energy efficient air-conditioner replacement the facility could reduce electrical consumption by 18.8% and reduce facility utility costs by over 11.4%.

- Cost of Recommended Measures - \$249,239
- Energy Savings - \$ 21,068
- Simple Payback Years - 11.83

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 Mr. Gregory Lampman at (518) 862-1090, ext. 3372, or visit the website at www.nyserdera.org