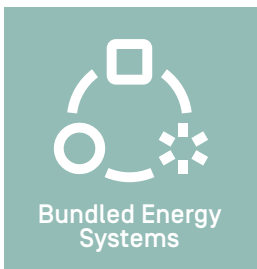


Our Lady of Hope Residence



The Our Lady of Hope (OLOH) Residence is a senior citizen home in Latham, New York. Built in 1975, the OLOH staff began exploring energy-efficient initiatives aimed at providing their residence with a more comfortable home while reducing operational costs. SmartWatt’s East Business Unit worked with OLOH to design a multi-phase sustainability project that achieved dramatic energy cost savings while improving the efficiency, air quality, aesthetics and comfort of the staff and residents.

THE CHALLENGE

The OLOH goals were to dramatically improve the air quality and comfort, reduce the facility’s environmental impact, save on energy and maintenance costs, and modernize the building.

THE SOLUTION

The OLOH staff contracted with SmartWatt to conduct a full-building energy audit of all electrical and mechanical systems at the Latham facility to identify potential energy saving solutions, and designed a multi-phase sustainability project.

Phase 1: Interior lighting and advanced lighting control upgrades, resulting in a 50% reduction in lighting energy costs.

Phase 2: SmartWatt engineered a multi-measure energy-efficiency project, which included the refurbishment of air handlers, the installation of new terminal units, the installation and commissioning of an energy management system, a new condensing hot water boiler system and the installation of a Combined Heat and Power (CHP) system.

THE IMPACT

The improvements to the air handling units, installation of new terminal units, a new domestic hot water boiler system, energy management system, and the CHP system helped the OLOH save \$82,528 annually.

Financial Impact

82K / total annual cost savings

Annual electric savings: **501,747 kWh**

Annual natural gas savings: **47,111 therms**

Energy Impact

687 tons / CO2 reduction

Planting 734 acres of trees

133 vehicles off the road