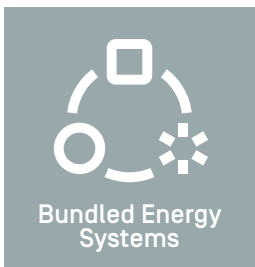


# Our Lady of Hope Residence



Health Care



Bundled Energy Systems



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