

# New Construction Program

## HOPE LAKE LODGE & CONFERENCE CENTER

CORTLAND, NY

### BACKGROUND

The Hope Lake Lodge is a 169,000 square foot hotel, lodge and water park, and includes a restaurant, retail shops, spa, and fitness center. The project is pursuing LEED certification under LEED-NC v2.2.

The EME Group Consulting Engineers, was retained by NYSERDA to evaluate electric energy-efficiency opportunities for the new building under the New York Energy Smart New Construction Program.

### RECOMMENDATIONS

EME identified cost-effective improvements to the building and its systems that will reduce its energy consumption, decrease demands on the utility's distribution system, and increase occupant comfort.

Among the energy efficiency improvements implemented in the building were:

- Efficient lighting and lighting controls
- Airside heat recovery
- Variable Refrigerant Volume (VRV) heat pump system
- Direct digital control (DDC) building management system
- Commercial refrigeration measures
- Condensing hot water heaters
- Ozone-based laundry equipment

### INCENTIVES AND RESULTS

NYSERDA's incentive of \$440,000 will help Hope Lake Investors defray a portion of the implementation cost to install the efficiency improvements. In total, Hope Lake Investors' investment could result in:

- Annual Energy savings of more than 689,293 kWh
- Peak demand savings of 145 kW in the summer
- Annual Energy Cost savings of almost \$138,474

The Hope Lake Lodge is 23.1% above the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 90.1 2004 building code.

Contact us today at **1.866.NYSERDA** or visit our website at [www.nyserdera.org/programs/New\\_Construction](http://www.nyserdera.org/programs/New_Construction)



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