The Center for Discovery

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Sullivan County, Harris New York

Background

The Center for Discovery is a campus that houses an independent living facility for the elderly, indoor and outdoor learning centers for severely disabled children, and a farm co-op. Quality of life is an important tenet for the Center for Discovery, as is the quality of the environment. In an effort to maximize its energy efficiency, the Center for Discovery partnered with NYSERDA's New Construction Program to explore energy efficient technologies for a new 26,000 square foot, two-story Ambulatory Care Center Building.

Analysis and Recommendations

The energy model for the Center for Discovery was created by Joseph R. Loring & Associates, an engineering firm under contract to NYSERDA. The model predicted that the Center for Discovery would be 24% more efficient than a code-compliant building, and it has outperformed these predictions. As a result, the Ambulatory Care Center building achieved official LEED® Silver Certification. The following energy efficient measures allow the building to optimize its energy performance

- Geothermal heat pump system
- Variable frequency drive on well circulation pump
- Variable frequency drive on building circulation pumps
- Premium Building Shell/Glazing
- Radiant Floor Heating (not NCP incentive-eligible)

Incentives and Results

NYSERDA granted the Center for Discovery an incentive of **$120,039,** to help defray a portion of the implementation cost of the measures described above. A $12,004 incentive was also granted for achieving LEED® certification. As a result of the incentives and measures installed, the Center for Discovery will realize:

- Annual energy reduction of 180,846 kilo-watt hours
- Energy savings of $19,225
- Reduced annual CO_2 emissions of 80 tons

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For more information about these services, contact NYSERDA toll free 1-866-NYSERDA, locally (518) 862-1090, or e-mail: **info@nyserda.org**
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