

Albany Molecular Research, Inc.



Capital District Pharmaceutical Research Company Invests in Energy-Efficiency and Environmentally Friendly Measures

Albany, Albany County

Background

Albany Molecular Research, Inc. has offices in Syracuse and Albany. The company decided to improve and expand an existing building located near Albany's Pine Bush Preserve. Albany Molecular placed considerable importance on completing this project in an environmentally friendly manner. The company contacted NYSERDA for assistance through the **New York Energy SmartSM** New Construction Program and the **New York Energy SmartSM** Flex Tech Program.

The original building consisted of 75,000 square feet and was constructed as office and warehouse space. Albany Molecular Research, Inc. expanded it to a 130,000-square-foot state-of-the-art pharmaceutical laboratory.

Albany Molecular Research, Inc. and its design team first contacted NYSERDA about conducting a study under NYSERDA's Flex Tech Program. Through that program, Malcolm Pirnie, P.E. evaluated the feasibility of installing a geothermal groundwater cooling-system at the site. As part of the assistance available through NYSERDA's New Construction Program, Science Applications International Corporation (SAIC) completed a detailed energy analysis of the entire building. Design parameters from Friedman-Fisher Engineers, the project engineering firm were used.

Recommendations

The analysis recommended the following equipment be installed:

- Variable air-volume and supply systems with direct digital controls (DDC);
- Run-around heat recovery for cooling-ventilation load reduction;
- Primary/secondary hot-water pumping; and
- Geothermal groundwater cooling system

Incentives and Results

NYSERDA cost shared **\$33,220** of the study cost and offered **\$400,000** to help offset the cost of installing these high-efficiency measures.

These measures will result in:

- A cost savings of \$139,745 annually
- A 397,453 kWh reduction in energy use per year
- A payback period of three years
- Summer and winter peak electric demands will be reduced by 610 kW and 85 kW respectively.

NYSERDA also is providing **\$9,320** to Albany Molecular to commission the installation and start-up of this equipment.

New York Energy SmartSM

All **New York Energy SmartSM** programs are funded by a System Benefits Charge (SBC) paid by electric distribution customers of Central Hudson, Con Edison, NYSEG, Niagara Mohawk, Orange and Rockland, and Rochester Gas and Electric. NYSERDA, a public benefit corporation established by law in 1975, administers SBC funds and programs under an agreement with the Public Service Commission.

New York Energy SmartSM programs are designed to lower electricity costs by encouraging energy efficiency as the State's electric utilities move to competition. The programs are available to electric distribution customers (residential, commercial, institutional, and industrial) who pay into the System Benefits Charge (SBC).

"Our experience with NYSERDA and its technical assistance provider has been a completely successful and enjoyable collaborative."

- Brad Fisher
Friedman-Fisher
Associates, P.C.



For more information about these services, contact NYSERDA
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