

Bard College Robbins Dormitory

Annandale-on-Hudson, New York



Novus Engineering prepared a technical assistance study under the N Y S E R D A New Construction Program for a \$12.6 million, 250-bed addition to an existing dormitory. Building heating and cooling are provided by a 270-ton

ground source heat pump system. The project sought a LEED rating.

The study involved detailed energy modeling of the base building and a variety of energy efficiency measures, including:

- Variable geothermal well field flow
- Enhanced wall insulation
- Variable flow HW/CW circulation
- Enhanced roof insulation
- High efficiency lighting
- Improved specification windows
- Exhaust air heat recovery

Novus prepared a whole building model of the building to calculate energy savings and incentive award amounts under the NCP program. The project received a \$354,000 award under the program, including \$30,000 in LEED incentives.

Novus determined during the modeling process that the project engineer had grossly oversized the heat pump system. Upon Novus' recommendation, the engineer reduced the capacity of the system from 420 tons to 270 tons, which saved the owner approximately \$60,000 in installation costs.



Architect: Highland Associates
Contractor: Storm King Contracting
Project Cost: \$12.6 million
Completion Date: 2006

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