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CASE STUDY

"The Power to Perform"

ENERGY PERFORMANCE PROJECT

SULLIVAN

YOUR
COMMUNITY
YOUR COLLEGE

ABOUT SULLIVAN COUNTY COMMUNITY COLLEGE

Sullivan County Community College (SCCC) is located in Loch Sheldrake, NY, and obtains a national and international reputation for the quality of programs, faculty, and students.

Atlantic Energy responded to an energy conservation Request for Proposal that was issued in the summer of 2006. We immediately became very interested in pursuing this project with the College because of their dedication to becoming a "Green" facility.

SCCC hired Atlantic Energy to implement a complex energy project that soon had both parties excited to get to work.

The project included many standard upgrades to the existing facility. A full lighting upgrade and retrofit was implemented campus wide, daylight harvesting, the completion of a full building envelope and

weatherization package, full water conservation scope, and digital building automation.

The College had been utilizing a ground source geothermal loop, however a fully electric field house was still used. Atlantic Energy expanded the existing loop and added air conditioning to the building through an array of heat exchangers and condensing units utilizing the ground source temperature.

The final and most unique part of this project was the installation of a 1 megawatt grid parallel wind turbine (illustrated below). With the combination of the other Energy Conservation Measures (ECMs) installed this would allow, for the production of a great part of the Colleges electricity. This portion is scheduled for completion in March of 2009.

PROJECT SUMMARY

PROJECT SIZE: \$4,316,577

ANNUAL SAVINGS: \$415,755

SQUARE FOOTAGE: 229,801

SIMPLE PAYBACK: 10.3 YEARS

ENVIRONMENTAL IMPACT:

4,078,000 KWH REDUCTION = TO
571 CARS OFF THE ROAD & 1,183 ACRES OF TREES
PLANTED ANNUALLY

