



Success Story: Campus Electric Metering System

CLIENT BACKGROUND

The College of New Jersey, Ewing, New Jersey.

Through an engineering firm, the College issued a Request for Proposal (RFP) for metering and monitoring on-site generation facilities and 50 key buildings. Construction of several new buildings is planned over the next five years. The purpose of the project was to integrate campus metering into an existing Honeywell building automation system (BAS) to enable effective load management and to automate load shedding.

SCOPE OF WORK

Enerwise Global Technologies was selected from among six bidders to supply and install 50 metering devices and related monitoring software for a central work station linked to communicate with the meters and the existing BAS. The system offered

- A turnkey solution to automated load management.
- Real-time ability to monitor and manage load and other operational variables, and automated load shedding.
- Easy analysis of facility information by providing quick, accurate diagnosis from multiple sources.
- Identification of unusual usage patterns and facility status in an intuitive context.
- Identification of power quality issues and alarming for rapid problem resolution.
- User-defined, customized reports for actual and comparative financial, energy, and power quality information.

APPROACH

Because it was not committed to selling one particular system or software technology, Enerwise was able to propose, explain, and justify an approach and equipment that would accomplish the goals of the RFP, while mitigating overall cost.

CLIENT BENEFITS

- Will achieve approximately \$170,000 to \$240,000 in savings per year in demand and consumption charges
- Provided ability to understand and manage energy usage on a building-by-building basis
- Acquired prediction of new peak before it is reached and automatic load shedding at defined level, before occurrence
- Obtained automated load shed to avoid defined-level peak
- Can respond to electrical issues and solve problems more quickly
- Can make informed decisions regarding facility projects involving energy-using equipment
- Offers flexibility for future enhancements to reduce electricity costs.

