Siemens helps major Georgia university reduce energy usage

Energy monitoring

Power Distribution Solutions

Challenge
A major university located in Georgia is one of the state’s largest consumers of electrical energy. The challenge was in getting students to understand how their behavior drives energy usage and key measures that can be taken to reduce energy consumption.

To achieve this goal, the university needed a cost effective method to collect data from the new dorms they were building on campus. They also wanted a company to collect energy usage data from their building management system (BAS) and display it locally around the campus, as well as on the internet.

Solution
Siemens won the award for the electrical distribution equipment for the new dorms and designed a solution to use the advanced web based features of the Siemens 9510 meter and its unique Modbus Master capability, to seamlessly provide data to a third party web hosting service.

The advanced, but simple, solution was able to provide significantly more data to the university, but at a greatly reduced installation cost. The traditional method would have involved sending pulse signals from a metering device to a collection device located various floors of the dorm. The capability to monitor, log and provide the data via XML web pages at the breaker allowed the university and architects to consolidate everything into one device. This meant the contractor had only one connection to make, saving time and money!

Results
The result was an easily installed networked solution that provided energy usage information in XML format for easy integration into their overall web based energy desktop. An added bonus was the use of the Siemens meters email alarming capability providing information to the facility personnel via email notification.

Not only was the university able to verify energy savings of nearly a $1M in the first year of the “dorm vs. dorm” energy contest, The university’s head electrical engineer noted that the Siemens system was the easiest integration method and will be the standard for future retrofits.
Siemens Solution for Higher Education

A global leader in the higher education segment including academic buildings, sporting facilities, dormitories, and central utility power plants, Siemens is focused on minimizing your risk, supplying safer, reliable and sustainable equipment and servicing support. Siemens has dedicated project teams that understand & manage project processes and milestones to support comprehensive products and solutions that are backed by on-call service and support, driving lower long term construction and operating costs.

Reliable and precise monitoring of electrical power systems

Siemens Power Distribution Solutions recognizes that high performance facilities make for high performance business. Energy is the lifeline of your business, and better efficiency and sustainability can have a large positive impact on your bottom line.

The Energy Management and Control Systems from Siemens provide a complete enterprise solution that can help you manage the energy costs and availability of your business. With our advanced meters and controls, you can be sure to use only the energy you need, when you need it.

Siemens Power Distribution Solutions can also contribute toward achieving LEED® certification and provides the needed energy metering data for federal/local government energy reductions programs.

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