

# Siemens helps major Georgia university reduce energy usage

## Energy monitoring



### 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 Advanced Electrical Power Meter with Web Server capabilities



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Order No.: PMCH-UNIVB-0710  
Printed in USA  
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