Lessen Energy Usage and Lower Energy Costs with Advanced Metering

- Increase Awareness of Energy Consumption Campus-wide
- Identify Areas Where Energy Savings Can Be Attained
- Implement Energy Reduction Programs and Monitor Their Progress
- Meet Energy Reduction Guidelines

Contact EIG at:
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Increase Awareness of Energy Consumption Campus-wide

Submeters are a critical element for measuring energy consumption. The installation of submeters has been shown to foster energy savings simply through the awareness of energy consumption they provide, which promotes the conscientious use of energy and yields savings of up to 15%.

Identify Areas Where Energy Savings Can Be Attained

Submeters provide key energy data that allows facility engineers and financial managers to identify areas within the campus buildings that are energy inefficient and need improvement. Areas often noted to be inefficient are student housing, main campus buildings, science and technology buildings, libraries, cafeterias and leased restaurants, teaching hospitals, and campus retail stores.

EIG's submeters allow you to identify energy used by specific areas or departments. And EIG’s EnergyReporter EXT application allows you to bill departments directly for their energy use, and to create detailed usage reports for areas and timeframes.

Implement Energy Reduction Programs and Monitor Progress

According to ENERGY STAR®, a U.S. government-backed program, U.S. educational facilities spend over $14 billion on energy each year, but close to 30% of that energy is used inefficiently. Over the past two years, the U.S. educational market has had great success in reducing its energy consumption and curbing rising energy costs. It has done so by implementing energy projects that include submetering, with energy tracking and reporting, and the formalization of energy goals and processes.

No matter the size of the institution, the common element of successful energy management is a commitment starting with the administration and driven by the entire faculty and students working across the various campus facilities, departments and dorms. Armed with the knowledge they get from EIG's meters and submeters, energy and facility managers are able to gain the support of the administration, and to make decisions that will realize energy savings for the entire institution.

Meet Energy Reduction Guidelines

Both from the standpoint of reducing costs and of improving its impact on the environment, energy reduction is a win-win situation for any educational institution. As leaders in the community and role models for the next generation of community leaders, universities worldwide are recognizing their responsibility to reduce their carbon footprint through conscientious energy use. Submetering is one of the best and most easily accomplished methods of reducing energy usage through the accountability it fosters. Installing EIG’s submeters as part of an energy reduction plan lets the campus community see the details of their energy use and inspires personnel and students alike to be smarter energy consumers.
Helping Educational Institutions Be More Intelligent Users of Energy

University campuses have an important role as leaders in energy conservation. Reducing energy use has an impact not only on a college’s bottom line, but on both the environment and their student body, as they provide a model of good, responsible citizenship. To implement an energy reduction program, universities must start with establishing an Energy Tracking system. This can be as simple as installing submeters, which are critical to understanding energy consumption within the educational institution.

Through submetering, energy consumption can be analyzed campus-wide, leading to the identification of energy waste and cost savings opportunities. In fact, installing submeters has been shown to promote lower energy costs simply through the awareness of energy usage that they provide, which leads to the conscientious use of energy and energy savings.

Submetering allows for billing on actual use rather than square footage billing. This promotes “ownership” of utility costs by the energy user. For instance, when the science department or cafeteria is billed for their actual usage, they have greater incentive to conserve energy. Once they see their costs go down, they have incentive to continue with energy saving efforts. In this way, submetering provides immediate savings that persist over time.
TYPICAL BILL OF MATERIALS:

**Critical Load Point**
Nexus® 1500+ - Advanced Power Quality Analyzer and Energy Meter
Ordering Part #: Nexus1500+-D2-60Hz-20-V3-X-X-X-X

**Large Loads (400 Amps or more)**
Shark® 200 - Data-Logging Energy Meter for Load Profiling
Example Installation: Typical Building Loads, Substations, Control Panels
Ordering Part #: Shark200-60-10-V2-D2-INP100S-X-X

**Economical WiFi Submeter**
Shark® 200S – Advanced Data-Logging WiFi Submeter
Example Installation: Administrative Offices, Dorms, Departmental Buildings
Ordering Part #: Shark200S-60-10-V33-WIFI

**Smaller Loads (200 Amps or less, high-density)**
MP200 Metering System - 8 Three Phase Input Meters
Example Installation: Smaller Panel Boards, High-density Circuits
Ordering Part #: MP200-Y-60-10-V2-WIFI-MDSN

**Base Data Collection Software**
Communicator EXT™ 4.0 Software for configuring meters, automatically collecting data, and studying power quality
Ordering Part #: COMEXT4P

**Energy Dashboard and Billing Software**
EnergyReporter EXT 4.0 Software for energy dashboarding, generating usage reports and automated submeter billing
Ordering Part #: EREXT4

ENGINEERING ASSISTANCE:
Contact us for conformance specifications and engineering design assistance. EIG has on-staff dedicated application engineers to provide comprehensive support and make your project a success.

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