

**Reduce Energy Costs, Encourage Environmental Friendliness,
and Reduce Carbon Footprint
for Educational Institutions**



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**
- **View Usage, Demand, and Predictive Analytics in the Cloud**

Contact EIG at:

Email: sales@electroind.com **Tel:** 516-334-0870

➤ 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. This inefficiency is very costly; in fact, poor performing buildings can use up to seven times the energy of the highest energy efficient buildings for the same exact use.



EIG's submeters allow you to identify energy used by specific areas or departments. And EIG's EnergyReporterPQA™ application allows you to bill departments directly for their energy use, and to create detailed usage reports for areas and timeframes. In addition, EIG's EnergyPQA.com™ Energy Management Cloud solution provides energy analytics and predictions, reducing costs and improving power system reliability. It surpasses traditional Energy Management systems by adding Energy prediction engines and deep insights into power quality.

➤ Implement Energy Reduction Programs and Monitor Progress

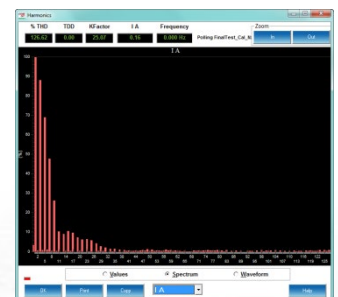
According to ENERGY STAR®, a U.S. government-backed program, U.S. educational facilities spend over \$14 billion on energy each year, but close to 30% of that energy is used inefficiently. Over the past two years, the U.S. educational market has had great success in reducing its energy consumption and 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, submeters, and energy management software, 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.

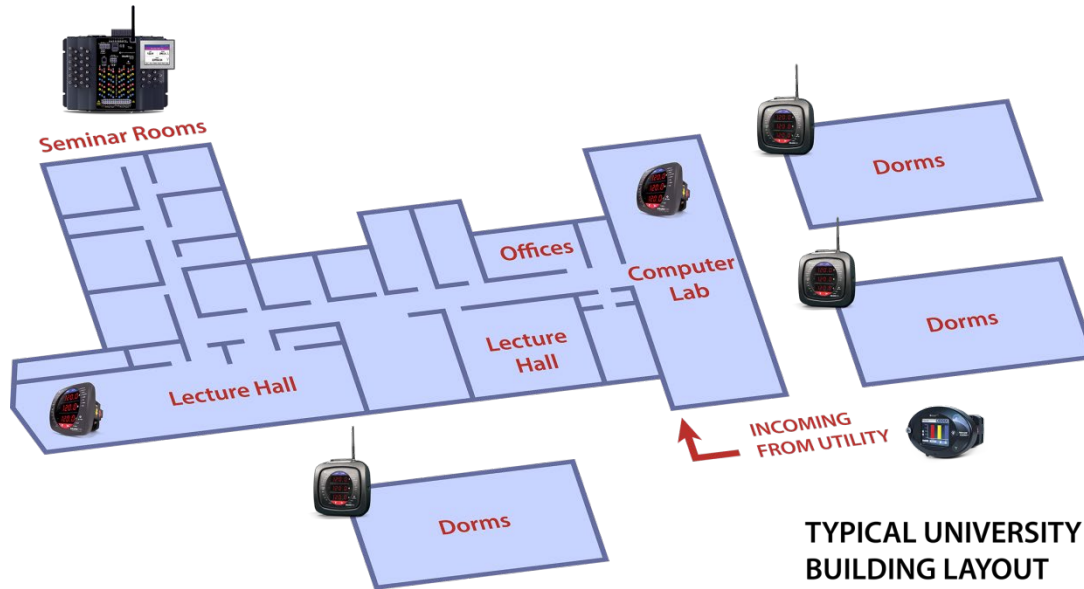


➤ Meet Energy Reduction Guidelines

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

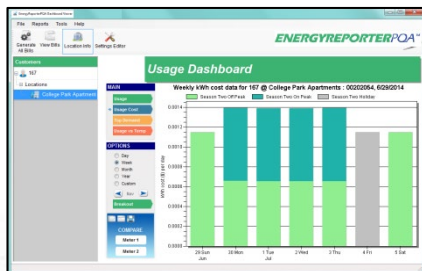


TYPICAL UNIVERSITY BUILDING LAYOUT

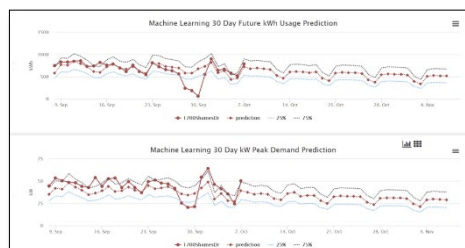
University campuses have an important role as leaders in energy conservation. Reducing energy use has an impact not only on a college's bottom line, but on both the environment and their student body, as they provide a model of good, responsible citizenship. To implement an energy reduction program, 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. And energy efficient buildings can consume up to 85% less power. Also, since Demand charges can be as high as 50% of a facility's actual consumption, the predictive energy usage and Demand engine of the EnergyPQA.com™ system can help you to implement Peak Demand reduction strategies.

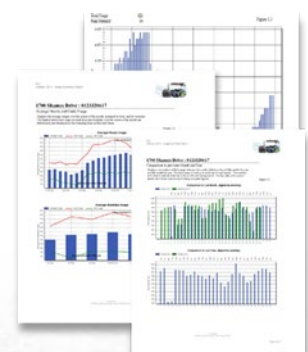
Submetering allows for billing on actual use rather than square footage billing. This promotes "ownership" of utility costs by the energy user. For instance, when the science department or cafeteria is billed for their actual usage, they have greater incentive to conserve energy. Once they see their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



Real Energy Cost by Day



View Demand over Time and Predicted Demand via EnergyPQA.com™ System



Executive Summary Energy Usage Reports

TYPICAL BILL OF MATERIALS:

Critical Load Point

Nexus® 1500+ - Advanced Power Quality Analyzer and Energy Meter

Example Installation: Utility Entry Points, Critical Loads, High Power Sensitivity Points

Ordering Part #: Nexus1500+-D2-60Hz-20-V3-X-X-X-X



Large Loads (400 Amps or more)

Shark® 250 – Cyber Secure Power and Energy Meter

Example Installation: Typical Building Loads, Substations, Control Panels

Ordering Part #: Shark250-60-10-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

CommunicatorPQA™ 5.0 Software for configuring meters, automatically collecting data, and studying power quality

Ordering Part #: COMPQA5P

Cloud-Based Energy Management Solution

EnergyPQA.com™ Next generation Energy Management Cloud solution, providing energy analytics and predictions, reducing costs and improving power system reliability

Ordering Part #: ENERGYPQA

Energy Dashboard and Billing Software

EnergyReporterPQA 5.0 Software for energy dashboarding, generating usage reports and automated submeter billing

Ordering Part #: ERPQA5

ENGINEERING ASSISTANCE:

Contact EIG's highly experienced engineers, with a variety of skills in the fields of electrical engineering, software engineering, and meter engineering, to assist in the design, commissioning, start-up verification, and certification of installations to help you get your project up and running, and ensure it will be successful.

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