

Energy Savings Opportunities and Lowering Costs for Shopping Malls



EIG **Electro Industries/GaugeTech**
The Leader in Power Monitoring and Smart Grid Solutions



Lower Energy Usage Costs and Reduce Energy Consumption with Advanced Metering

- **Increase Awareness of Energy Consumption Profiles through Submetering**
- **Identify Areas Where Energy Savings Can Be Attained**
- **Implement Energy Reduction Programs and Monitor Their Progress**

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➤ Increase Awareness of Energy Consumption Through Submetering

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%**. Gain the support of your shopping mall tenants in reducing energy usage with the information you receive through submetering. And the Shark® 100B submeter has native BACnet/IP which lets it fit seamlessly into any existing BACnet application you are using to manage your shopping mall.



➤ Identify Areas Where Energy Savings Can Be Attained



Submeters provide key energy data that allows shopping mall owners, property owners, facility engineers and financial managers to identify areas within the shopping mall that are energy inefficient and that may need improvement. Areas often noted to be inefficient are: common areas, such as entry ways and public restrooms; HVAC systems; tenants with high electric consumption; food courts; and more.

EIG's submeters let you identify energy used by specific loads or individual tenants. And EIG's EnergyReporter EXT application allows you to fairly bill tenants directly for their energy use, and to create detailed usage reports for mall areas and timeframes.

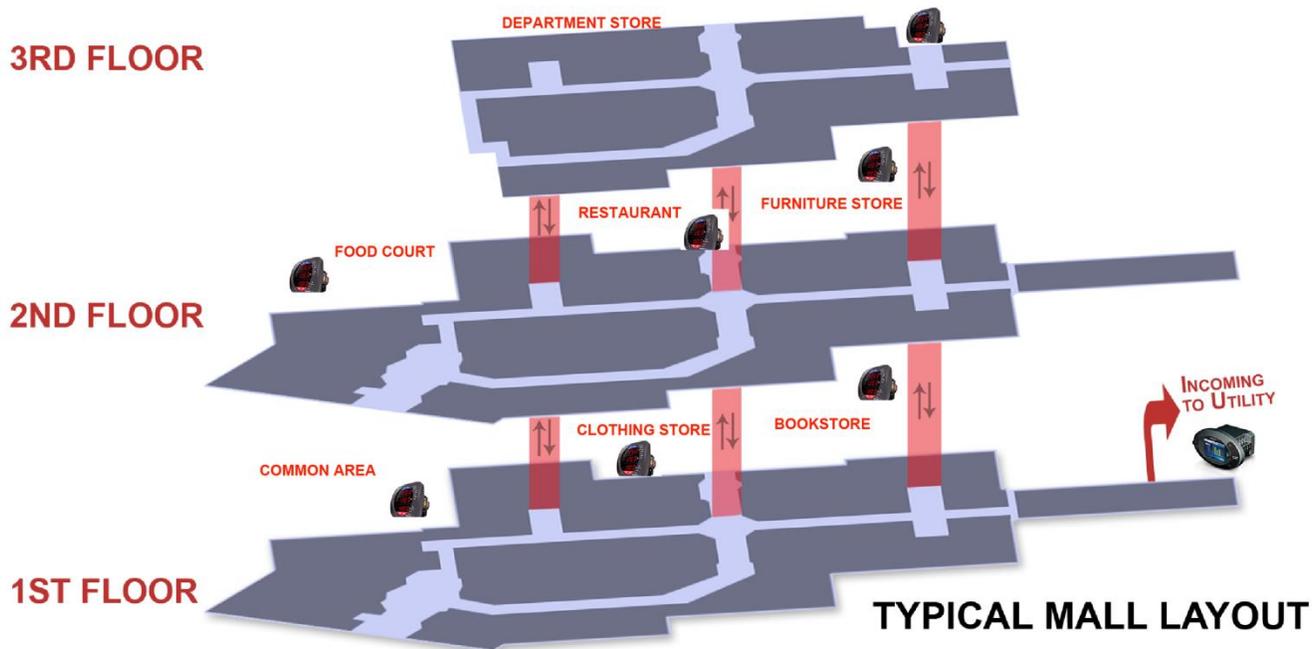
➤ Implement Energy Reduction Programs and Monitor Progress



For several years, the U.S. Federal Energy Management Program (FEMP) has issued energy savings guidelines that include the implementation of submetering with energy tracking and reporting, and the formalization of energy goals and processes. Every shopping mall owner and tenant must be engaged to take advantage of energy management and energy efficiency initiatives.

Installing EIG's meters, submeters, and metering and billing software is one of the most cost-effective ways to implement an energy management program. Installing submeters is also a smart way to fight competition from other shopping malls. Shopping mall owners who do not take advantage of the simple use of submetering run the risk of failing to keep the best of tenants. Armed with the knowledge you get from EIG's meters and submeters, energy and facility managers are able to help tenants make decisions that will realize energy savings for everyone.

Helping Shopping Malls' Energy Usage Become More Efficient and Cost-Effective

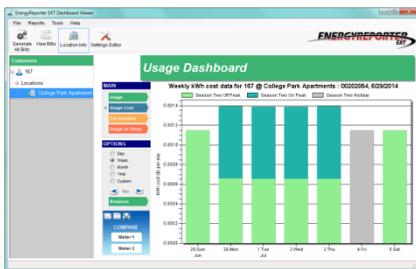


Shopping malls have energy needs that range from enhanced lighting in retail stores to heating and cooling stores and common areas. The rising cost of energy dictates that energy savings be realized wherever possible. These days no one can afford to be paying for energy that is not being used wisely. Increasing efficiency is not only good for a shopping mall's bottom line, it also has a positive impact on the environment, by helping to reduce the mall's carbon footprint.

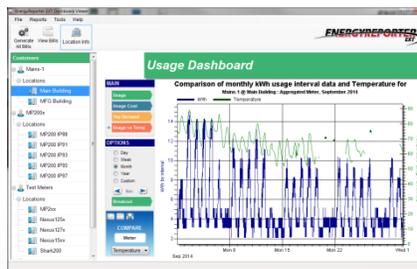
How to address the high cost of energy and the need to conserve?

Start with establishing an Energy Tracking system, which can be as simple as installing submeters. Submeters are a critical element for understanding energy consumption within any shopping mall.

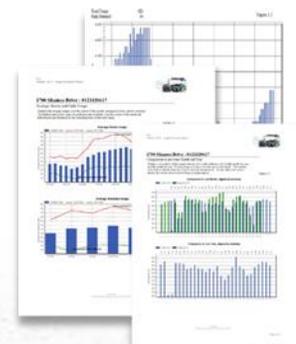
Utilizing submeters lets the shopping mall owner, property manager or the building engineer measure consumption for the entire mall, and for multiple floors, individual tenants and common loads, including HVAC. Since submeters provide the information on where and what processes within a shopping mall consume energy, they make it easy to identify cost savings opportunities. In addition, billing mall tenants for their actual usage rather than square footage billing gives them an impetus to join the energy saving effort.



Real Energy Cost by Day



Energy Usage Over Time



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® 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



BACnet Capable Meter

Shark® 100B Power and Energy Meter with Native BACnet/IP

Example Installation: To fit an existing BACnet application

Ordering Part #: Shark100B-60-10-D2-X



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 dash-boarding, 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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