

## Energy Savings Opportunities and Lowering Costs for Multi-Unit Residential Buildings



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



### **Lower Energy Usage Costs, Reduce Energy Consumption, and Increase Reliability with Advanced Metering**

- **Identify Areas Where Energy Savings Can Be Attained**
- **Implement Energy Reduction Programs and Monitor Their Progress**
- **Assure the Reliability of Power You Receive from the Utility or from Cogeneration**
- **Provide Tenant Billing, Creating Incentive to Reduce Costs**

**Contact EIG at:**

**Email:** [sales@electroind.com](mailto:sales@electroind.com) **Tel:** 516-334-0870

## ➤ Identify Areas Where Energy Savings Can be Attained

EIG's advanced and highly accurate meters and submeters let you identify energy used by specific apartments or common areas of your building. You can use this information to see where energy can be saved.



## ➤ 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 building owner must be engaged to take advantage of energy management and energy efficiency initiatives.

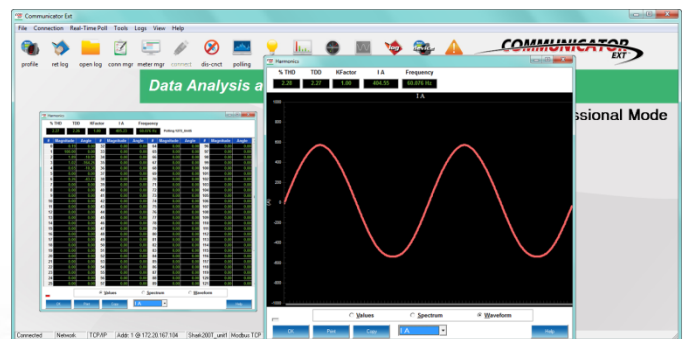
Installing EIG's meters, submeters, and metering software is one of the most cost-effective ways to implement an energy management program. Armed with the knowledge you get from EIG's meters and submeters, you can make decisions that will realize energy savings for everyone.

## ➤ Assure the Reliability of the Power You Receive or Generate

EIG meters let you analyze power quality to insure the reliability of your energy provider. And EIG's meters have generous amounts of memory for logging measurements and recording waveforms, which lets you perform detailed forensic analysis of any problems that occur. If your building has a CHP cogeneration system, you can use EIG's meters to monitor the power quality of the electricity you are generating. You can also use EIG software to generate alarms or email when power quality problems arise, so that you can be proactive in addressing them.

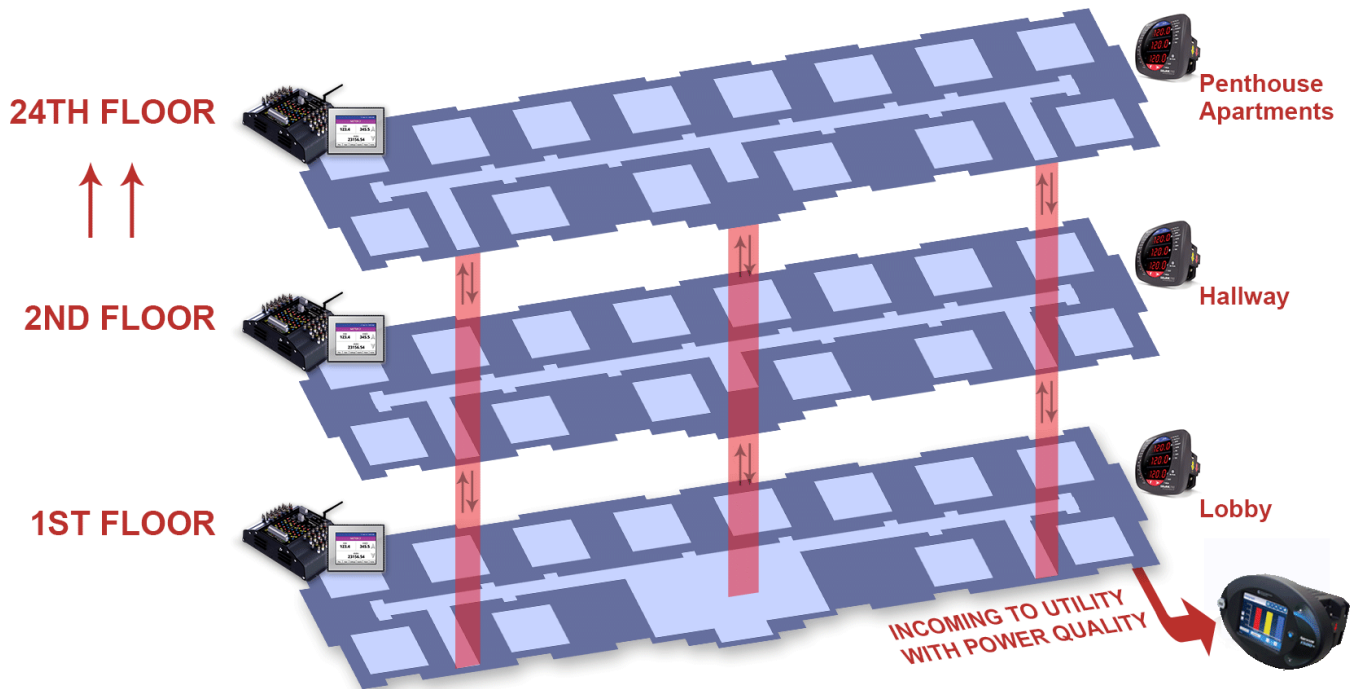
## ➤ Reduce Costs through Accurate and Fair Tenant Billing

EIG's EnergyReporter EXT software, coupled with EIG's meters, lets you bill tenants for their actual energy usage, rather than relying on square footage billing. This gives your tenants ownership of their energy costs. Since tenants can see how their usage directly affects their bills, they have motivation to reduce their energy use. This results in both immediate and long-term savings. In addition, tenants can see that they are being billed fairly.





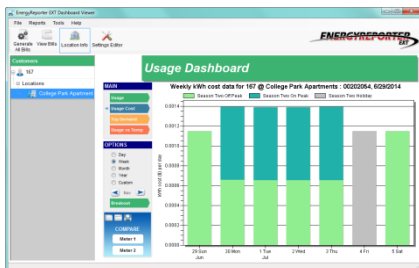
# Helping Multi-Unit Residential Building's Energy Usage Become More Efficient, Cost-Effective, and Reliable



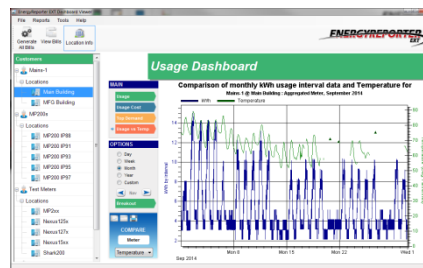
## TYPICAL MULTI-RESIDENTIAL LAYOUT

Both from the standpoint of the high cost of energy and the desire to take advantage of governmental initiatives for saving energy, reduction in energy usage is important for multi-unit residential buildings. Before consumption can be reduced and energy savings be realized, it is necessary to get an accurate assessment of the actual usage. Metering is the basis for getting this information. EIG's line of meters and submeters let you monitor usage in common areas, such as lobbies, hallways, and elevators; and in individual units. And our advanced software lets you generate usage reports to help in your energy analysis.

By identifying times of greatest use, and areas where energy may be saved, you can cut consumption and start to realize energy savings. And along with this, by measuring the reliability of the power coming from the utility, you can be sure that you are getting the quality of power you are paying for.



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



## 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 #: EREXT

# 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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