

Industrial Hot Spots For Energy Savings



Demand Analysis & Load Control

Users are billed high kilowatt demand rates for an entire month or multiple months even if the demand only occurs for a 15-30 minute period during a given month. The key to avoiding these exorbitant costs is to identify peaks in usage and proactively take steps to reduce those peaks. Graphic profiling of individual or aggregated loads will pinpoint peak usage areas or equipment. With this data manufacturers are able to employ load controlling devices to set high/low thresholds, control loads and reduce energy costs.



Production Run Allocation

Submetering allows manufacturers to identify exact energy costs by production line, production run, individual piece of equipment or the entire facility. This data enables manufacturers to accurately allocate energy costs to individual products or customers, avoiding estimation errors while increasing profitability. For manufacturers that produce multiple products, this data is key for creating accurate costing models and profitable price levels.



Department Allocation

Manufacturing facilities often have more than production areas within their facility; accounting, testing, quality control or maintenance departments. Monitoring energy usage of non-production departments allows businesses to drill down on energy usage to identify how, when and where energy is being used. In addition to separating production from other departments, businesses can allocate energy costs to these individual departments, ensuring accurate budgeting and increased energy efficiency.



Equipment Maintenance Programs

As the cost of doing business increases and budgets are more constrained, it is more important than ever to avoid production interruptions and costly equipment replacement. Submeters can be installed on key pieces of equipment to monitor usage and identify potential failures. This allows facility managers to take proactive steps to schedule repairs before equipment fails, thus avoiding costly and unexpected downtimes.

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Typical Manufacturing Facility Metered Point Map



Applications

1. Identify and allocate energy usage to individual production lines, production runs or pieces of equipment.
2. Allocate costs to non-production departments, lighting and other common areas for budget analysis.
3. Monitor manufacturing and other building equipment to identify potential failures before they happen.
4. Monitor HVAC equipment to identify inefficiencies.

Alternative System Configurations

1. Advanced meters. Monitor loads for demand analysis, single-point load control and alarming.
2. Automatic meter reading with E-Mon software. Generate individual usage statements and demand graphs for usage analysis, load aggregation and energy cost reduction.
3. MMU cabinets. Order meters installed in one compact enclosure and reduce installation time and save valuable building space.