

Additional Services Include:

- Installation
- Customer Support
- Commissioning
- Configuration
- Data Collection, Storage and Archiving
- Turn-Key Project Management
- Energy Information Service Bureau (EISB)

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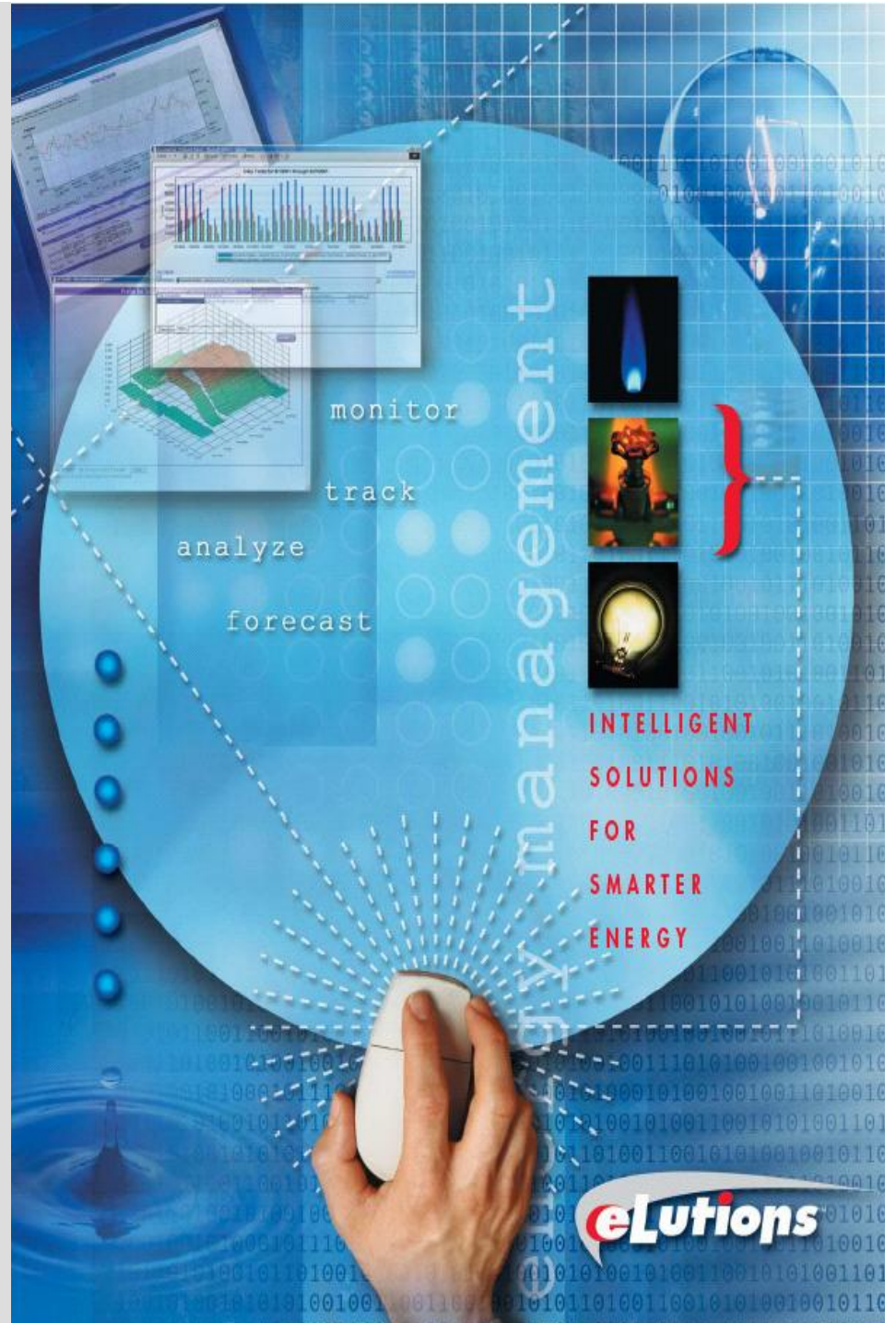
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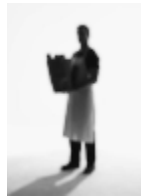
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At eLutions, Inc., we supply the technology that allows businesses to save money on energy. As the premier international provider of web enabled software, tools and services for energy management, we help both demand side and supply side users increase efficiency by accurately tracking, monitoring, forecasting and analyzing utility resource consumption. And we do all of this through the use of cutting edge software technology that works in concert with existing metering infrastructure. The result is critical consumption and cost information delivered at an enterprise-wide level, allowing businesses to reduce utility overhead and purchase commodities at lower prices.

More importantly, eLutions provides these services in a format you can use – simply. With **Active Energy Management (AEM[®])**, our primary service offering, we deliver a variety of energy management information and tools in a user-friendly application easily accessed via the World Wide Web. The menu-based suite of tools and services accommodates both real-time and historical energy usage data, and allows users to scale the service offerings and tools to fit their specific commercial or industrial needs.



eLutions has found particular strength in serving multiple-site clients in the retail food industry. Our customers can monitor their energy, via the Internet, at the very moment of consumption anywhere in the world. This ability provides our customers tremendous advantages for rate analysis and negotiation, curtailment management, load aggregation and usage alarming and control to name a few.

Answers for Retail Grocers

eLutions Services:

Subscription Services.

eLutions, as an Application Service Provider (ASP), operates and hosts the **AEM[®]** server and a broad range of data acquisition servers to support the collection of metering data from many different sources including real-time data loggers, telephone-based data loggers, wireless controls, bonding control systems, MV-90 and file-based data. All collected data is made available through a monthly Energy Information Service subscription via our Web-based software application. This gives a simple, economical and secure way for energy users and other utility commodities to quickly access site energy data.

Energy Information Service Bureau:

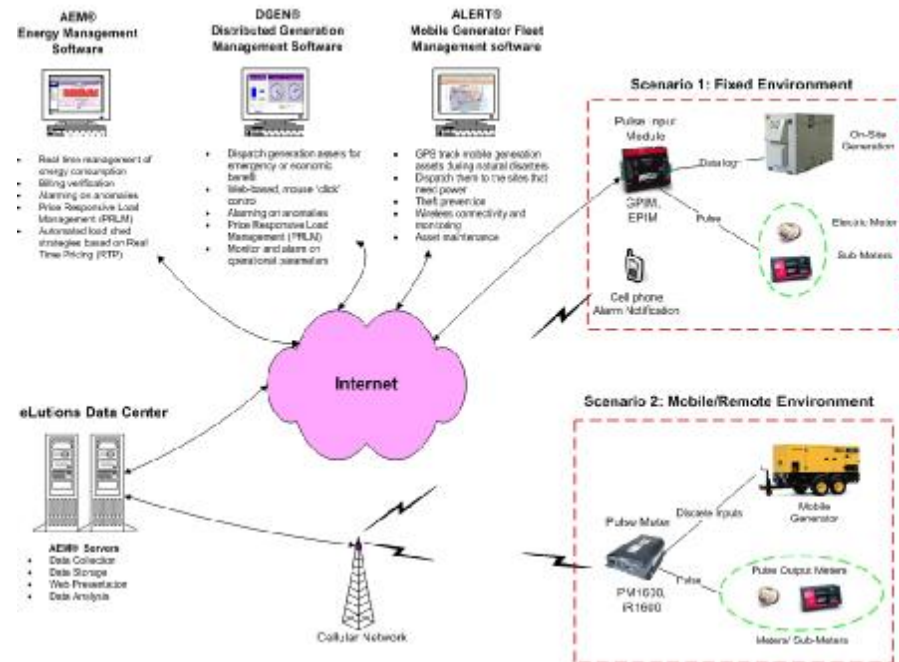
Our Energy Information Service (EIS) Bureau can provide services that include comprehensive facility audits, de-regulated and regulated rate tariff negotiations and comparative rate analysis, co-generation monitoring and management, curtailment management, real-time pricing tariff management, and many other value added services. It's part of our commitment to provide you with the most comprehensive and valuable energy management package available.





eLutions AEM[®] System Architecture

Interval metering data is collected by one of many different types of logging devices or meters located at the customer's facility. This data is stored locally in the logging device and then communicated to the **AEM[®]** Server using either the Internet or local telephone network. The server processes the data, stores it in its database and then presents it back to the customers over the World Wide Web via a standard Web browser, providing easy access to energy management information to help maximize efficiency.



Supported Data Sources

- EPIM** – An Ethernet pulse input module utilizes the Internet to provide real-time, device-level consumption reporting and control over the enterprise.
- GPIM** - The Global Pulse Input Module is a real-time data logger utilizing the Internet for environmental conditions in industrial and commercial facilities.
- SAM Meter** - The Stand Alone Meter is a solid-state energy meter that provides consumption monitoring for sub-metering applications or sites without access to the main meter.
- SCADA** - The **SCADA** provides access to monitor and control on-site generation assets utilizing the Internet to track performance in real-time.
- Revenue Meters** - Most existing modern equipped revenue meters are supported by AEM[®].
- Building Energy Management System** - Many existing Building Energy Management Systems can supply their data directly to AEM[®].

The Power of Knowledge

Energy Information Services (EIS) Benefits:

Without the necessary support, most businesses waste an average of 10% of their energy due to poor control, leaks, inefficient equipment or lack of awareness. However, with energy information, you have the knowledge needed to identify problem areas, understand your facility's energy needs and implement corrective actions. And that's where **eLutions can help. Active Energy Management (AEM[®])**, our dynamic energy information software, can help you enjoy cost savings from 1 to 20 percent.

How does it work? Simple. By providing extremely detailed information about the consumption and usage of utilities, **AEM[®]** helps users find savings in places they never could check before. Examples of typical areas where energy cost savings can be achieved include:

- Optimizing consumption patterns to lower cost periods
- Modifying usage through automated demand alarming
- Aggregating multiple loads into a single load
- Identifying optimal rate tariffs
- Allocating costs to tenants, departments or end-users
- Better management and identification of equipment maintenance

A real-time, Web-based energy information software package, **AEM[®]** is easily accessible through Microsoft's Internet Explorer Web browser and provides a flexible, scalable and robust platform to measure, manage and control energy usage and environmental conditions within one or multiple facilities. Energy can be monitored, via the Internet, at the very moment of consumption anywhere in the world, offering tremendous advantages for rate analysis and negotiation, curtailment management, load aggregation, usage alarming and control.



Monitor and Analyze Energy and Environmental Conditions.

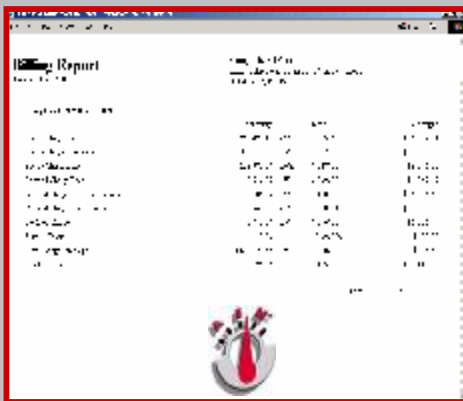
AEM[®] supports the real-time and historical collection, monitoring, alarming and storage of gas, water, electric and environmental data. This consumption information provides a framework for comparing usage to determine operating problems and identifying areas for savings. By viewing this data over time a baseline of information is created for evaluating some change in energy use between two periods of time. Also, by simultaneously displaying several sites, facilities can be compared against each other. Environmental analysis can determine the correlation between the conditions and energy consumption or used to ensure regulatory compliance.

Utility Billing Analysis, Cost Tracking and Allocation and Bill Validation.

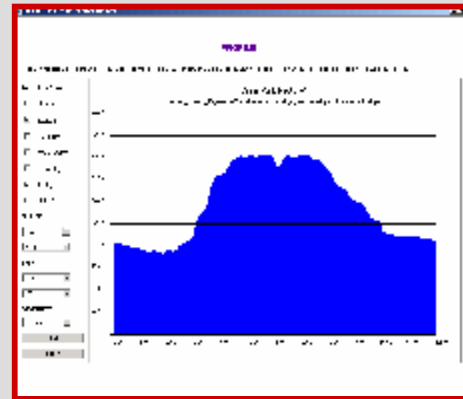
AEM[®] produces standard and customized billing reports that can be derived from any monitored or logged value. AEM[®] uses actual or customized utility tariffs to compute a utility bill on any monitored meter. The program can be used to calculate, track and analyze utility bills before they arrive. What's more, the software also provides for comparison of the cost of utility an two distinct rates,



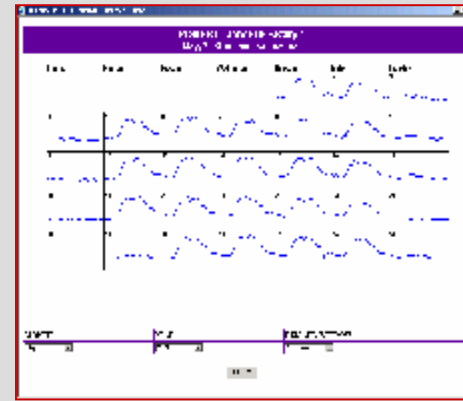
Consumption Report. Users can track and analyze historical consumption data in hourly, daily, weekly, monthly and yearly intervals and view summaries of peak demand, total and average consumption and the load factor. View energy usage by facility or as an aggregate report of multiple facilities.



Billing Report. Utilize AEM[®]'s Billing Report function to analyze utility bills before they arrive, catch billing discrepancies and much more. The program will even generate reliable billing broken down by internal groups, allowing for accurate and equitable distribution of utility costs between departments.



Profile Benchmarking Report. Users can view average consumption over a selected day and date period to benchmark a facility or load using historical consumption data. Learn what time of day you use the most energy. Are there specific times or days when your energy consumption spikes or peaks, and why?



Calendar Profile Demand Report. View an entire month of consumption profiles on a single screen. You can easily and quickly identify abnormalities in consumption such as peak demand spikes, loads that failed to shut off, power failures and loads that are consuming too much energy. An invaluable tool in analyzing energy usage and unveiling variations such as, "Why did my usage fluctuate on March 19?"

the verification of utility bills at the end of the month and a more equitable means for internal budgeting and cost tracking.

AEM[®] bills can be used to allocate costs to departments, tenants, processes or buildings, accurately and economically passing energy costs on to the actual user.

Alarming.

AEM[®] compares real-time measured quantities to user-defined threshold limits. Alarms occur when those limits are crossed. AEM[®] logs the alarm and automatically notifies, either by email or pager, the user of the alarm. Additionally, alarms can be programmed to cause a specific action based upon many energy related conditions, or can be interfaced with the Building Energy Management System, an on-site generator or directly to a load.

In addition, AEM[®] allows users to:

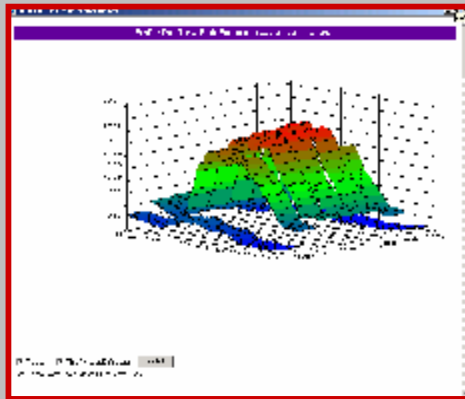
- Aggregate demand and loads across multiple sites to reduce peak demand costs or to increase base load and reduce overall demand charges.
- Monitor Real-Time Pricing Feeds and other system-wide variables such as a total system demand, congestion, weather and wholesale cost variables.



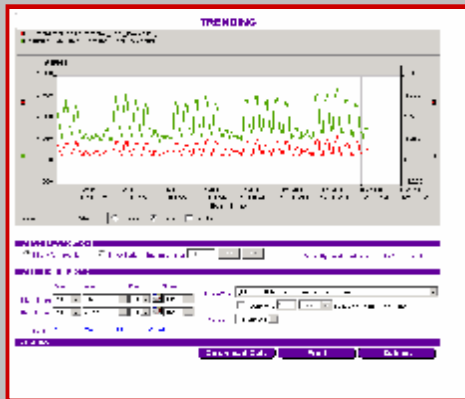
- Analyze power quality information such as Voltage, Current, Power Factor, Reactive Energy, Real and Reactive Power, Total Harmonic Distortion and Frequency directly from a power quality meter to prevent failure of critical equipment and processes.

Curtailment Module.

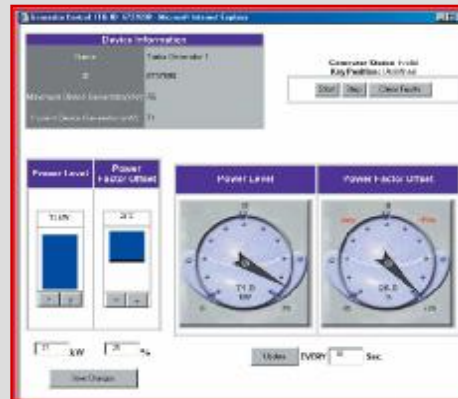
The Curtailment Module provides the end user and the utility with an automated, on-line solution for the entire curtailment process, making it easier than ever to track progress in this multifaceted approach to energy management. Functions include curtailment bidding and acceptance, end user notification of bid acceptance, end user curtailment account tracking and end user real-time load tracking throughout curtailment. The Module will also deliver utility real-time aggregated load tracking of all curtailment participants, and the settlement process.



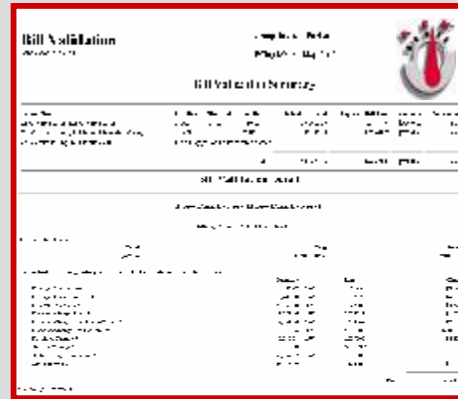
Three-Dimensional (3-D) Profile Report. This 3-D profile graph can be rotated in any direction, allowing users the best view for spotting abnormalities. As illustrated, red areas conveniently highlight the peak consumption days and hours. Identify concerns such as, "Why is my consumption on Fridays much less than Thursdays when my production does not change?"



Trending Report. A flexible line-graph representation of profile data versus time. The screen can be zoomed in and out, as well as panned forward and backward to allow critical events to be analyzed. As many as eight profiles and two units of measure can be compared simultaneously on the same graph. Notice the correlation between energy use and the local temperature at this facility.



Distributed Generation Information Screen. Monitor and control local generation assets with a simple point-and-click user interface. Generator functions are easily controlled via manual changes or a series of automated triggers, reducing the time and effort required to manage onsite power.



Bill Validation Report. This report provides the capability to compare actual utility bills generated and collected by AEM³. You can quickly identify overpayments caused by incorrectly read meters and utility billing errors. "Why is Drew Park Factory's actual bill so high?"

Distributed Generation Monitoring and Control.

The D-Gen application monitors, alarms and provides control for all sizes of customer located generation assets. It also provides remote start and stop control over the generator through automatic programming and manual control. Alarming for generator data monitoring allows the user to monitor fluid levels, temperatures, power outputs and fuel inputs in real-time and to log these parameters to a database for historical trending.

Programmed control is provided through a simple point-and-click command to start and stop the generator, by a date and time schedule or through automatic alarm-based triggers from system events such as real-time prices or energy consumption loads.

Bill Management.

The AEM³ Bill Management Module provides a Web-based tool for tracking, managing, analyzing and verify utility bills. Actual bill amounts can be used for on-line presentation and analysis. Analysis capabilities include verifying actual bill amounts against AEM³ generated bills and benchmarking consumption across multiple facilities. Bill Payment services are also available.