Grid Solutions



Energy Aggregator

Energy Visualization, Analysis and Reporting **Software Solution**

GE's Energy Aggregator allows facility managers to effectively manage energy ownership through automated meter data collection, visualization of key data enabling better decision making, and fair billing and reporting for financial environmental incentives. With Energy Aggregator's accurate and easy to understand energy reporting, tenant satisfaction is also improved.

Designed to work with GE's advanced EPM Meters, Energy Aggregator provides a complete energy management visualization, analysis and reporting solution to effectively execute baseline assessments and ongoing studies to support energy management planning.

Key Benefits

- · Improve tenant satisfaction, energy ownership and savings by providing fair usage billing, visualization and analysis of energy usage
- Complete, cost effective visualization, reporting and billing solution to identify losses; define, measure and action energy management goals
- Increase operational efficiency and change energy usage behavior
- Automatically collect and centralize data from logging GE's EPM Meters (EPM 4600/7000 series/9000 Series)
- Easy setup and low ongoing cost of maintenance and ownership with features such as automated setup/update, data retrieval, and report/billing generation

Applications

Energy Aggregator works as a complete solution for new and existing meter installations where logging EPM Meters (EPM 4600/7000 series/9000 Series) are installed:



LEED Projects and Green/ Smart Buildings



Energy Management Assessments, Planning and Measurement



Commercial/Industrial Tenant Sub-Metering/Industrial Circuit Cost Allocation

- · Shopping Centers/Retail Malls
- · Educational Campuses, Corporate Complexes



Industrial/Commercial **Energy Management**



Data Centers - Supporting data for Power Usage Effectiveness (PUE) calculations

Improve Energy Ownership

- Dashboard functionality to easily visualize and illustrate energy metrics
- Provide visibility to tenants and operators to increase energy awareness, encourage conservation and retain tenants
- Enable fair energy usage billing/reporting versus common, area based billing

Measure & Action Energy **Management Goals**

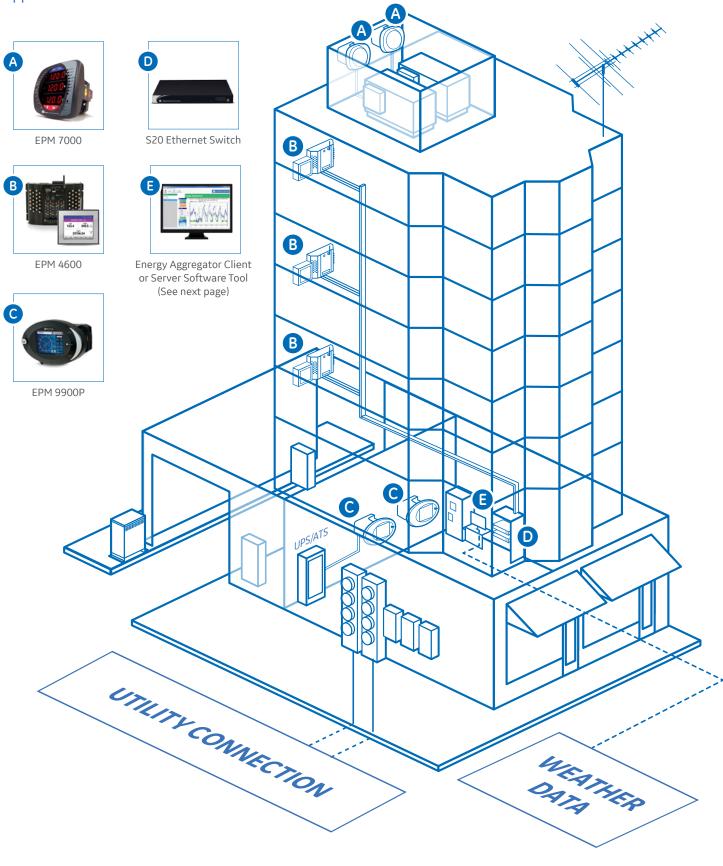
- · Reduce effort through automated data collection providing accurate, accountable information
- · Perform complex calculations including aggregation, rate/tariff structures, charges and integrated billing of other commodities (Water, Air, Gas, Steam, etc.)
- Support energy management goals and decisions through usage/cost/comparison analytics

Ease of Use & Low Cost of Ownership

- Automated discovery of meters eliminates setup errors and reduces configuration challenges
- Reduces initial commissioning efforts and ongoing operating and maintenance costs with automated setup, report email functionality and application updates
- · Easy to use reporting setup for customized report formats or export to other systems



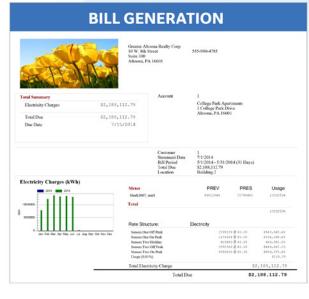
Applications



Powerful Visualization, Reporting and Analysis

Energy Aggregator provides energy managers with a comprehensive view of energy usage with valuable data insights and analysis to improve energy management and efficiency.



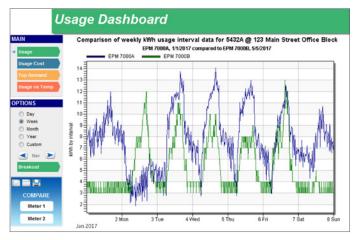




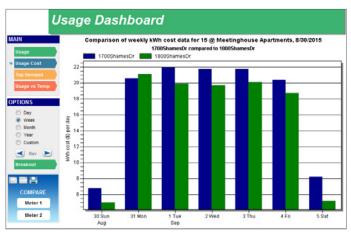
Comprehensive Energy Visualization

Energy Aggregator provides a complete picture of energy usage with valuable data based, insight and analysis to improve tenant satisfaction and increase energy ownership.

- Easy to understand, visual dashboard views to provide trending reporting and comparison analysis over time
- Determine inefficiencies and savings opportunities, to reduce energy demand by centrally and accurately collecting and visualizing data
- Provide accurate, data based insight to tenants to increase ownership and change energy consumption
- Centralize collection for a complete view of energy consumption including electrical, water, air, gas, steam, etc.
- Compare energy consumption with location based weather data



Compare energy usage between different areas over time periods



Compare cost data between metered areas

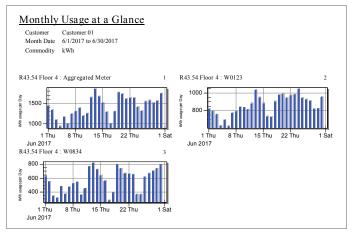
Automated Report Generation

Energy Aggregator provides standardized and customizable reports to generated and distributed automatically to decision makers and management to enabling constant awareness.

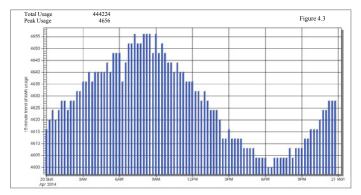
- Standardized and customizable reports provide insight on high-value aspects of energy consumption to make effective decisions
- Automated report generation and distribution ensures accurate, consistent reporting and constant awareness with low resource effort
- Easily baseline, determine and pinpoint opportunities for savings and energy improvements

Example reports include:

- Usage Summaries
- · Location based Temperature Impact on usage/demand
- · Monthly/Yearly Meter Comparisons
- · Peak Day/Week Profile
- · Average Hourly/Daily Usage



Generate reports to visualize energy usage



Generate reports to visualize and analyze total and peak demand

Automated Energy Billing

Energy Aggregator generates standardized and customizable bills with support for rate structures and charges. Generated bills can be sent and distributed automatically to users as per a defined interval reducing resource efforts and costs involved with engaging other billing service providers.

- Standardized and customizable billing provides fair billing based on energy consumption
- Automated bill generation and distribution ensures accurate, consistent reporting and ownership with low resource effort and eliminates need to engaging billing service providers
- Support for rates structures such as fixed, tiered or TOU rates (fixed, seasonal) as well as additional charges, taxes
- Ability to bill completely for energy as well as other commodities (Water, Air, Gas, Steam, etc.)

Supported Meters

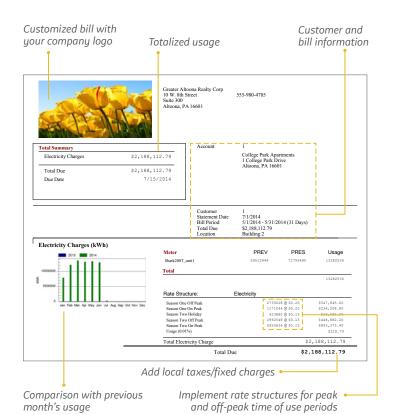
Energy Aggregator supports the following logging enabled EPM meters:

Submetering:

- EPM 4600 Multi-Feed Power and Energy Metering Solution with Display
- EPM 7100 Energy Submeter with Data Logging and WiFi

Power Quality Meters:

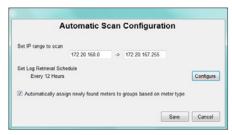
- EPM 7000 Power Quality Meter
- **EPM 9450/9650** Advanced Power Quality Metering System
- **EPM 9800** Advanced Power Quality Metering System
- EPM 9900P High Performance Power Quality and Transient Recorder Meter



Easy Low Effort Commissioning

Energy Aggregator is designed with functionality to make both initial setup and ongoing maintenance of the system easy for users.

- Automated discovery of meters eliminates setup errors and reduces configuration challenges
- · Reduces initial commissioning efforts and ongoing operating and maintenance costs with automated setup, report email functionality and application updates
- Easy to use reporting setup for customized report formats or export to other systems



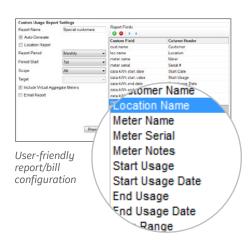
Easily add meters through MeterManager auto scan functionality



Visually confirm rate structure setup



Simple configuration of peak demand charges



Technical Specifications

System requirements - Energy Aggregator

COMPONENT	REQUIREMENT
Supported Operating Systems	Microsoft Windows® Server 2008
	Microsoft Windows® Server 2012
	Microsoft Windows® 7 Professional
	Microsoft Windows® 8/8.1 Professional Operating System
	Microsoft Windows® 10 Professional Operating System
Computer and Processor	2GHz x64 processor
	• 1TB storage
	• 1440x768 display resolution
Memory	4GB of RAM (Minimum)
Other	GE's Energy Aggregator Server requires GE Communicator v4.0 (Licensed) which provides the Meter Manager Component

Ordering Codes

GE PART NUMBER	NAME
PLSOFT-ENAGG	Energy Aggregator License Package* - Energy Visualization/Billing Software

^{*} License Package Includes both GE's Energy Aggregator and Communicator Licenses

GE 650 Markland St. Markham, ON Canada L6C 0M1 +1 877-605-6777 (toll free in North America)

+1 678-844-6777 (direct number)

GEGridSolutions.com

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