

The information you need to make smart energy management decisions

SEMS Energy Awareness
for small to medium-sized buildings and facilities



Step by step: your path towards

Today, energy efficiency is a priority for building owners, operators, and occupants. Are you making the right energy decisions for your building? To be sure, you need to understand how your building is performing. Today's energy management systems can do this – and much more.

Meter

Reliable information

Automatic gas, electricity, heat and water metering directly in each area or by usage to get the detailed energy-performance data you need. Get real time data acquisition for environmental parameters and electrical distribution.

Visualize

Intuitive dashboards

Get graphical display for energy consumption, temperature and other environmental parameters. Access to electrical distribution key parameters.

Act

Right energy decisions

You can now implement concrete improvements to increase rental property yields, lower building operating costs, and achieve measurable reductions in energy consumption and carbon footprint.

Understand

Associate information to building usage

Continuous automatic metering ensures real-time information to respond quickly to malfunctions and wasted energy. Real time electrical distribution monitoring enables you to improve operation and maintenance.

Your energy data at a glance!

Energy management efficient for today and tomorrow

Energy regulations are more and more stringent. When it comes to managing risk and hedging against tomorrow's higher utility rates, measuring energy performance is the only way to lock in future savings today.



energy savings



SEMS Energy Awareness

Schneider Electric now offers a system tailored to meet the unique needs of small to medium-sized buildings and facilities. Schneider Electric Simple Energy Management Solutions are designed to provide easy-to-understand information about a building's energy consumption. The data generated serves as a solid framework for making smart energy management decisions to enhance building energy performance – and business competitiveness.



Benefits for facility managers, property managers, and building tenants:

- Save on energy costs by reducing consumption and cost per kWh
- Involve building occupants in energy-efficiency measures
- Adjust building systems settings and implement power factor correction
- Identify the most profitable cost saving investments and track their efficiency
- Negotiate better utility contracts and eliminate billing errors
- Lower your carbon footprint
- Achieve compliance with energy regulations and produce data for energy-efficiency certifications
- Get advice from our energy management specialists



Benefits for property developers and owners:

- Increase property value
- Facilitate resale
- Increase rental occupancy and yield
- Go green and show it by communicating specific data



All Schneider Electric TVD solutions include tested, validated, and documented architectures, products, and services.

Tested: Proposed configurations have been tested and results approved by Schneider Electric independent or certified labs.

Validated: All solutions live up to Schneider Electric's global solutions values of safe, reliable, efficient, productive, and green as proven by testing on platforms that reproduce various customer environments over the entire solution lifecycle. The lifecycle management of each component is guaranteed.

Documented: In addition to Schneider Electric customer support, customers benefit from a complete set of user guides, training, and services to ensure they achieve all of the benefits they expect from the solution.

Start saving now with energy dashboards and real time monitoring



Identify energy waste and consumption drifts

Utility energy bills often get paid without a second look. Waste or drift is often detected months after it happened—if ever. SEMS Energy Awareness gives you at-a-glance energy consumption data so you know where you stand at all times.

Customize your dashboards

SEMS Energy Awareness is designed to let you select your own set of dashboards:

- By energy type: gas, electricity, heat, or water
- By consumption period: monthly, weekly, daily, or hourly
- Comparison: month-to-month, week-to-week, or day-to-day

Capture building environmental parameters

You need to monitor building environmental parameters—like temperature—to pinpoint drift and adjust systems like HVAC for greater efficiency: a great way to save without investing in new equipment.

Communicate on energy savings

- Save preconfigured reports for easy tracking
- Give authorized stakeholders password-protected access to reports
- Make your periodic energy reports more compelling with dashboard screenshots

Export energy data to spreadsheets

In just a couple of clicks, you can create energy data tables for use in spreadsheets, where you are free to manipulate the data as you choose.



Drill down energy usage

Energy dashboards help you keep an eye on energy consumption on a daily basis and identify drift. Interval energy data is the key to getting the in-depth usage analysis you and your energy services provider need to:

- Identify opportunities for savings
- Correct anomalies like high consumption when buildings are vacant or utility contract penalties for overconsumption



Improve Operations & Maintenances

View the main electrical distribution parameters from your office or remotely, and send personnel on-site only if needed.

- Real-time readings give you your installation's current status
- Minimum and maximum values aid in troubleshooting and facilities management, help avoid nuisance outages, and provide valuable data for capacity investment decision-making
- Power factor monitoring allows you to understand any utility penalty, to correct issues, and to make decisions on power factor correction and harmonic filtering investments

How it works

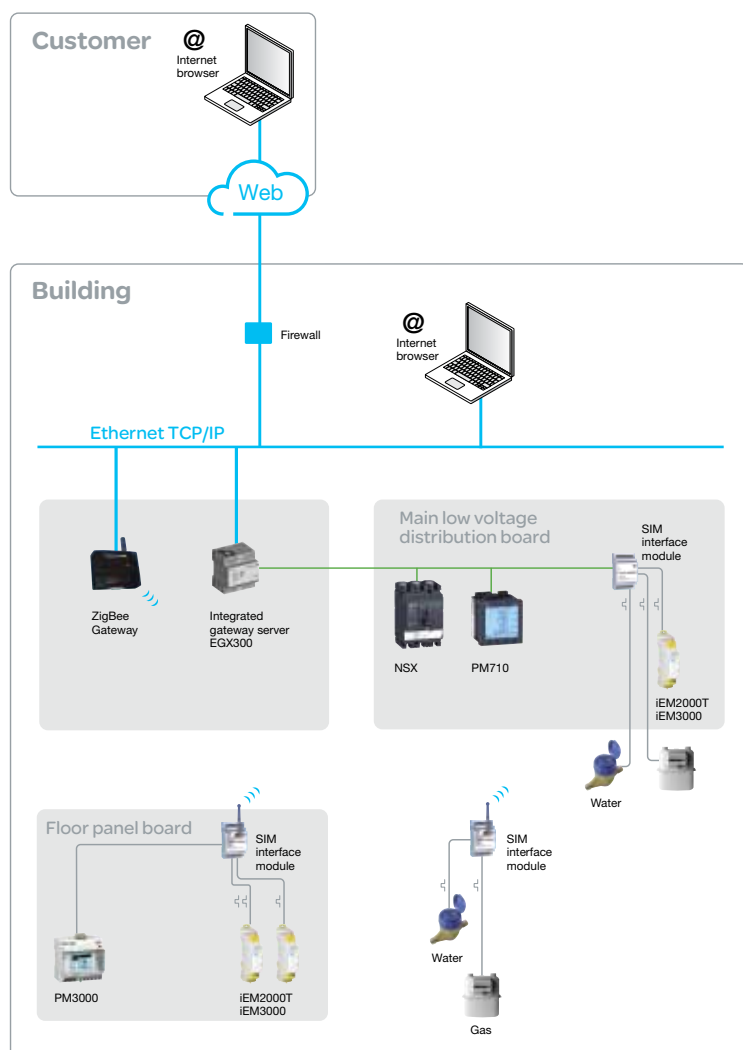
A simple and flexible configuration

Your electrical contractor installs the energy meters, communication module, and the EGX300 gateway.

The solution can be configured in just a few clicks for both Modbus and pulse meters.

Building occupants can then create additional dashboards as needed, simply and easily.

If you already have an EGX300, a free software upgrade will give you access to a range of new features. Simply download the new software and start saving now!



Information delivered

- Energy consumption per period
- Period over period comparison
- Energy interval data
- Temperature and other environmental parameters over time
- Electrical distribution real time values

Subscribe now to StruxureWare Energy Operation Online to enhance your energy savings and reporting capabilities

You are just a step away from the enhanced features of StruxureWare Energy Operation Online. No additional equipment is needed.

StruxureWare Energy Operation Online is a web-hosted energy management service. It offers you advanced energy management features and frees you from the constraints of traditional energy management solutions. StruxureWare Energy Operation Online gathers and processes data from your installation and converts it into relevant and easy-to-understand energy dashboards.



StruxureWare Energy Operation Online ensures:

Advanced energy management functions

- Personalize dashboards
- Relevant and complete information
- Validate utility bills
- Identify and quantify cost savings opportunities
- Multi-site solution: aggregation, benchmarking
- Benefit from Schneider Electric's expertise in the field of energy management

Sustainable development

- Determine your CO₂ baseline
- Establish targets
- Monitor your improvements

Peace of mind certified

- Schneider Electric is responsible for data storage and back-up
- Multi-site solution without IT infrastructure and issues to address
- Easy to use, no training or particular skills necessary

How it works

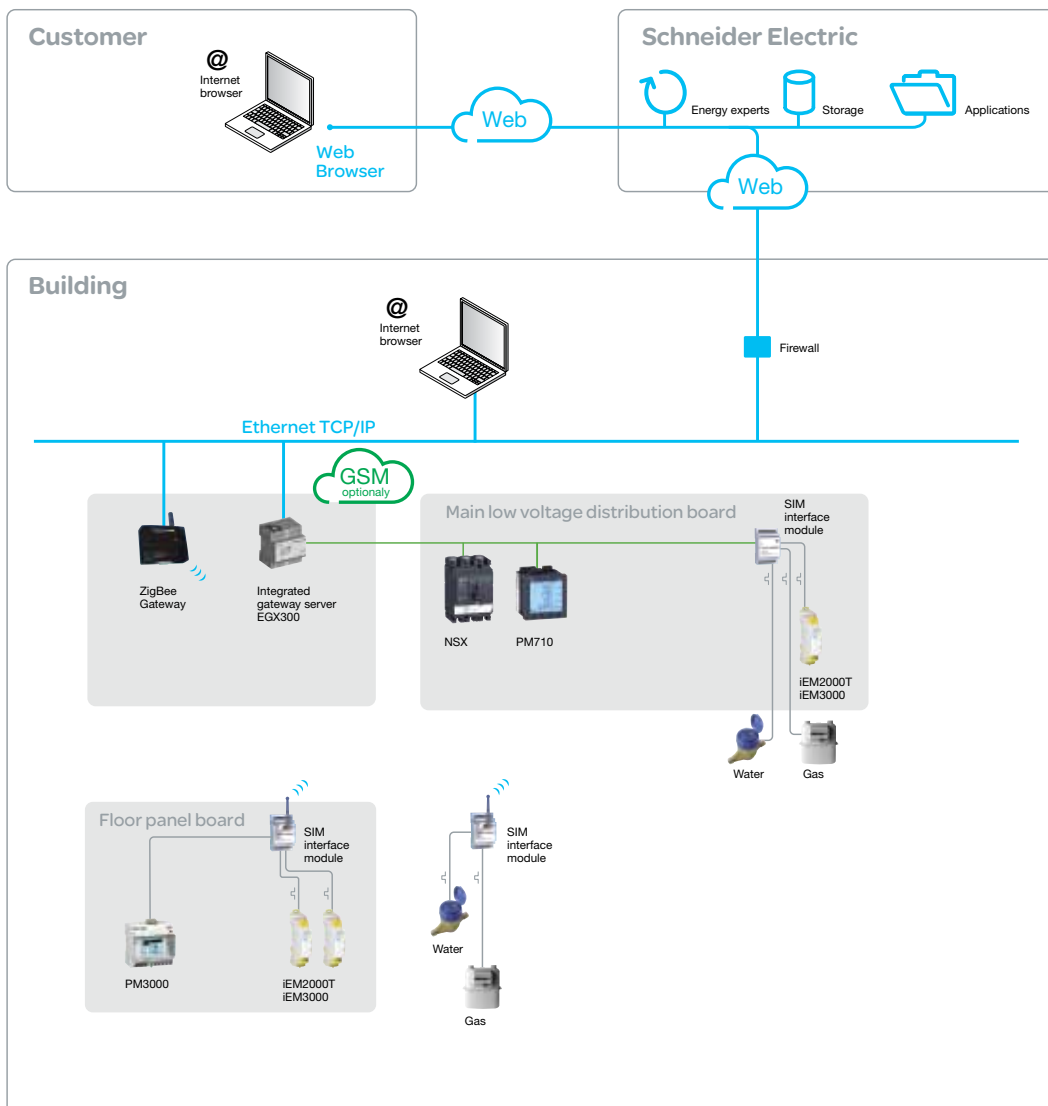
No additional equipment required

You don't need to install any additional equipment to get all of the benefits of StruxureWare Energy Online. Simply subscribe! Then go online and connect your EGX300 to Schneider Electric servers.

Some customers may elect to transfer data through GSM by adding a GSM modem.

Your data is directly and automatically sent to dedicated secure servers hosted by Schneider Electric. Users do not need to intervene. Schneider Electric handles backup and protects the confidentiality of all data.

Users simply receive the dashboards and reports they need in the format and at the frequency they request. The e-mailed reports can be scheduled automatically to facilitate the estimation of energy bills or to compare consumption data between different locations or time periods, for instance.



The latest technologies for products you can count on



EGX300 integrated gateway server

The EGX300 is an Ethernet-based device providing a simple, transparent interface between Ethernet-based networks and field devices.

It requires only a web browser and Ethernet network to log and display real-time data and energy dashboards. A GSM option can be added via a GSM gateway: Digi Connect WAN cellular routers which provide secure high-speed wireless connectivity. Digi Connect is also ideal when wired networks are not feasible or when alternative network connections are required.

Smart Interface Module (SIM)

The SIM acquires analog and digital inputs. SIM modules allow blended architectures combining wired and ZigBee wireless instrumentation. SIM wireless instrumentation offers an easy-to-install solution for existing sites presenting wiring challenges due to building infrastructure or meters located far from the building.



A broad range of meters

Schneider Electric offers a broad range of meters, from kilowatt-hour meters designed for metering active energy consumed by a single-phase electrical circuit to iEM3000 and PM3000 meter families providing high-performance measurement capabilities. Schneider Electric meters are designed for a wide variety of applications in both the industrial and service sectors.



Compact NSX circuit breakers

The Compact NSX range allows increased energy availability, optimized energy consumption, and simplified operation of electrical installations. Integrated measurement functions and data availability enable the Compact NSX range to go beyond simple protection, making it a full-fledged management resource aimed at improving electrical efficiency.



Your existing Compact NS circuit breakers can quickly and easily be upgraded to Compact NSX models.

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Design: pemaco

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