

Smart Energy Management

Data Centers - Industrial Plants - Buildings



XEMs Overview

Xompass platform collects, storage and analyses sensor data in real-time to offer unprecedented capabilities of visualization, operational intelligence, maintenance and IoT monitoring, configuration and administration management.



Xompass Energy Management solution (XEMs)

XEMs is a cloud solution of Xompass platform for energy monitoring of power distribution networks, critical loads or any electric equipment which requires constant monitoring.

XEMs delivers continuous information about the power consumption, network status, fault and alarm detection, from the distribution to the load level, which helps to reduce and optimize energy consumption, improving plant efficiency.

To use the XEMs solution, the user only needs to connect his equipment to the wireless or wired transmission units (according to the available conditions) and start using the Xompass cloud platform or mobile application.

All the integration of the equipments into the platform is performed without interrupting the production (in most cases) process. Calibration, configuration, assignment of personnel in charge and alarm activation is easily done from the web application interface.

In conclusion XEMs solution provides a wide range of tools to manage your energy network, aiming to optimize, reduce costs, monitor and share information, generate reports and analyze the data. With XEMs you can make better decisions for energy management in your company.



XEMs Use Case

Entel is one of the most important TELCO in Chile. The CNT unit, National Telecommunication Center, hosts the central telecommunications center nationwide. Two Megawatts of power are managed by CNT to cover the company requirements. CNT requires a comprehensive measurement system that was capable of:

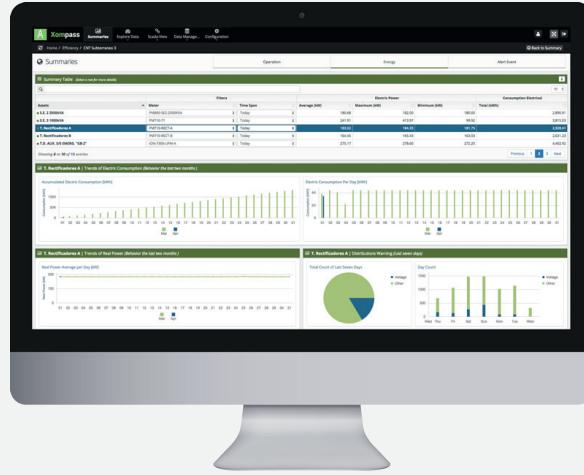
- Get the information of all network analyzers of different brands and models.
- Provide realtime, historic and summary information, at load and system level.
- Minimize installations intervention.
- Minimize disruption of operation in distribution and load panels.
- Do not install a wired network to capture data.
- Available 24/7.
- Data visualization in mobile devices.

Xompass implemented a program to monitor more than 20 electrical distribution panels and multiple critical loads, including chillers, rectifiers and UPMs.

Figure 1: Some distribution panels and critical loads diagram, monitored in realtime by Xompass.



Figure 2: Monthly summary of electric consumption of each monitored device.



This system replaced the older electric network checking method. Previously consisted of sending an operator multiple times a day to manually take readings of each board to keep a diary.

Benefits of using XEMs :

- Remove the need of data readings by an operator.
- Realtime alerts.
- 24/7 Data visualization in mobile devices
- Comprehensive reportability system. The user can understand the consumption behavior at global and specific level.
- System information at operation and energy level.



Cost reductions associated with fault situations and human resources.



More time to analyze the information and less effort in data processing. Allowed better decision making.



Faster Reaction time against faults.



Reduction in failures due to issue timely alarms.



The screenshot shows the Xompass software interface on a tablet. The top navigation bar includes 'Home / Efficiency / Off-Summary', 'Logout', 'Explore Data', 'Scaling View', 'Data Aggregation', and 'Configuration'. Below this is a 'Summaries' section with tabs for 'Overview', 'Energy', and 'Alert Events'. A summary table lists meters and their consumption details:

Meter	Filter	Time Span	Average (kWh)	Maximum (kWh)	Minimum (kWh)	Total (kWh)	Consumption Event(s)
PARTNER-GOERGEN	1	Today	771.00	814.00	730.00	15,422.00	15,422.00
4 * E. AUX "S"	1	Today	125.92	131.02	120.00	2,518.00	2,518.00
4 * E. AUX "B"	1	Today	485.12	515.00	454.00	9,702.00	8,813.00
4 * E. AUX "C", "D"	1	Today	216.80	216.80	216.80	4,336.00	4,336.00
4 * E. S. VEHICLES	1	Today	47.74	50.00	45.00	954.00	4,774.00

Below the table are several charts: 'Accumulated Electric Consumption (kWh)', 'Electric Consumption Per Day (kWh)', 'Real Power Average (per Day) (kWh)', and 'Total Count of Last Seven Days' for Voltage and Current.

"Join Xompass. Join the future"

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