ƎNER2YOU

Monitoring and analyzing system of energy flows and power quality

AIEM

power of technology

STRENGHTS

- Comprehensive and real-time monitoring of energy flows, designed according to the actual needs of users and technicians and according to the latest European directives
- Advanced and customizable reporting
- Advanced performance Analysis according with Energy Performance Indicators (EnPI)
- Professional and reliable datalogger
- Compatible with a wide range of devices
- Customizable according to specific needs
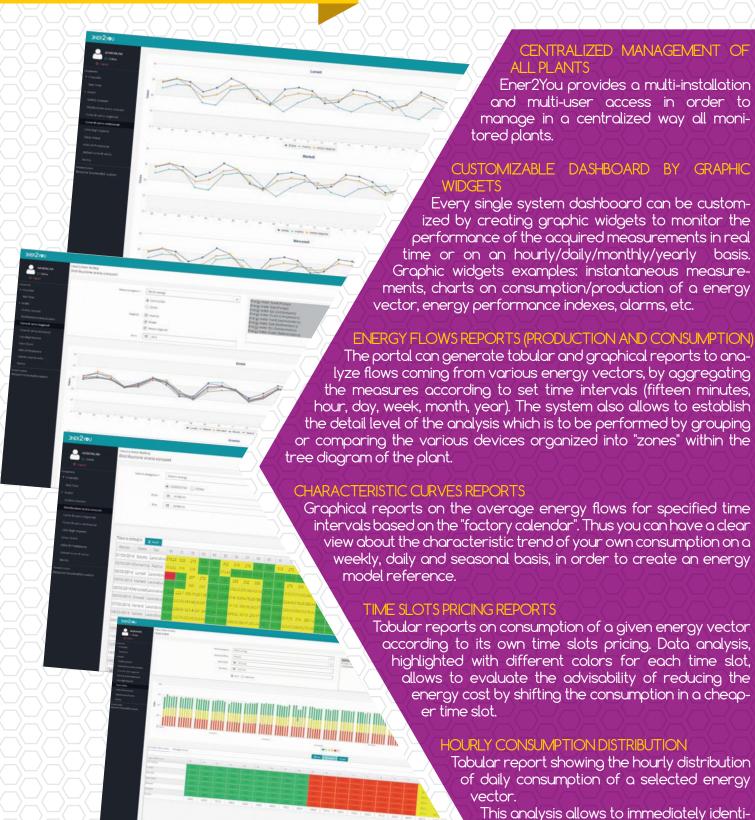- Highly skilled technical assistance

Ener2You (E2Y) is an innovative hardware and software system to:
- monitor exhaustively the energy flows of an industrial plant: electricity, heat energy, water, gas, environmental conditions;
- allow the drawing of accurate energy audits, through advanced and customizable reporting, according with the European Directive 2012/27 /EU and respective national laws of each member state;
- adopt an effective Decision Support System (DSS) to find solutions to improve energy efficiency and to evaluate the effects deriving from this kind of interventions;
- automate specific reports generation to obtain White Certificates (DM 28/12/2012).

E2Y system consists of an hardware made by a professional and reliable datalogger, able to detect all measures concerning energy flows and environmental conditions (through energy meter; water and gas meter; environmental sensors; other measuring devices). It then sends them via internet (ADSL or 3G) to AIEM server-farm. The software is made by the website www.ener2you.it, available in SaaS mode (Software as a Service) by PC, Smartphone or Tablet. Through the website the costumer can consult all the information, reports (real time / historical data) and alerts relating to the monitored plants.
The system can also be installed locally, within the intranet of large systems, to manage independently all information.

IDEAL FOR:

ENERGY MANAGER

PLANTS' MAINTAINERS

E.S.CO (ENERGY SERVICE COMPANY)

E.G.E (EXPERTS IN ENERGY MANAGEMENT)

END USERS

ENER2YOU
WEBSITE FEATURES

CENTRALIZED MANAGEMENT OF ALL PLANTS

Ener2You provides a multi-installation and multi-user access in order to manage in a centralized way all monitored plants.

CUSTOMIZABLE DASHBOARD BY GRAPHIC WIDGETS

Every single system dashboard can be customized by creating graphic widgets to monitor the performance of the acquired measurements in real time or on an hourly/daily/monthly/yearly basis. Graphic widgets examples: instantaneous measurements, charts on consumption/production of a energy vector, energy performance indexes, alarms, etc.

ENERGY FLOWS REPORTS (PRODUCTION AND CONSUMPTION)

The portal can generate tabular and graphical reports to analyze flows coming from various energy vectors, by aggregating the measures according to set time intervals (fifteen minutes, hour, day, week, month, year). The system also allows to establish the detail level of the analysis which is to be performed by grouping or comparing the various devices organized into "zones" within the tree diagram of the plant.

CHARACTERISTIC CURVES REPORTS

Graphical reports on the average energy flows for specified time intervals based on the "factory calendar". Thus you can have a clear view about the characteristic trend of your own consumption on a weekly, daily and seasonal basis, in order to create an energy model reference.

TIME SLOTS PRICING REPORTS

Tabular reports on consumption of a given energy vector according to its own time slots pricing. Data analysis, highlighted with different colors for each time slot, allows to evaluate the advisability of reducing the energy cost by shifting the consumption in a cheaper time slot.

HOURLY CONSUMPTION DISTRIBUTION

Tabular report showing the hourly distribution of daily consumption of a selected energy vector.

This analysis allows to immediately identify any energy waste also thanks to the different colors of the hourly consumption according to the reference values defined by the user.

HISTORICAL DATA REPORTS

Reports allow to create detailed graphical and tabular queries on individual measures coming from the monitored devices in a selected time interval. A specific selection menu also allows to compare the measurements coming from different devices.

ENERGY BALANCE

If there are production plants (eg. photovoltaic systems), Ener2You allows to process the consumption and production data in order to generate the plant energy balance.

COHERENCE BETWEEN ENERGY BILLS AND CONSUMPTION

Thanks to this feature the user can load in the portal the energy consumption data billed by his provider in order to check the conformity with the actual measured consumption.

POWER QUALITY ANALYSIS

The system allows electrical monitoring of one or more machines or also of an industrial plant in order to detect any operating anomalies that could generate substantial increases in energy consumption, damage and failures (voltage sags, surges, imbalances, abnormal values of power factor - cosΦ, neutral current).

DATA DOWNLOADING IN SEVERAL FORMATS

Every report, both graphic and tabular, can be exported in various formats to be inserted into energy audit documents (images, pdf) or to be used for additional customized analyzes (Excel).

ALERTS

The alarms section allows to define the threshold values for each measurement acquired in order to set the alerts generation and sending (by e-mail and sms) in case of anomaly (eg: maximum or minimum threshold exceeded)

SYSTEM SETUP

Special configuration menus allow to manage accounts, schemes of each plant and required alarms. For each available feature, you can save a list of frequently used queries (eg : report of the electricity consumption in the last week; trend of the absorbed power in the day; etc.).

INNOVATIVE FEATURES

ENPI – ENERGY PERFORMANCE INDICATORS

Energy Performance Indicators (EnPI), appropriately defined according to the peculiarities of each company and its sector, are a very important measure of the energy performance in order to assess the business performances over time. EnPIs, expressed as simple numbers, ratios, or more complex models, are mostly used for benchmarking analysis and to monitor energy management actions results.

COMPONENTS

EDALOG DATALOGGER

Industrial Embedded Computer low energy consuming, suitable to operate in both industrial and domestic environments. It is available in both Ethernet and 3G (integrated modem) and it can be installed on DIN rail inside switchboards. It interfaces to devices through RS485 and RS232 communication ports.

GSM ANTENNA

Dual Band 900 MHz / 1800 MHz 3dBi Omni Directional Magnetic Antenna GSM DCS Cellular Aerial

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HEAD OFFICE
Via Beato F. Marino, 102
87040 Zumpano (CS) ItalY

Phone +39 0984 482404
Fax +39 0984 825148

info@aiemonline.it
www.aiemonline.it