

ZENERGY

the system dedicated to Energy Management that reduces costs and consumption

I N F I N I T Y



Z U C C H E T T I

ZUCCHETTI
FACILITY
SOFTWARE & ICT SOLUTIONS



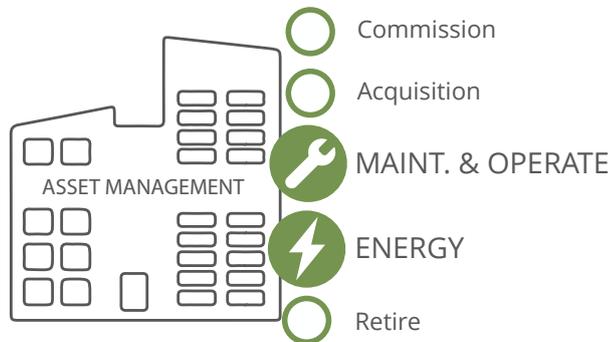
ZENERGY

ZEnergy allows energy and environmental information for industrial plants, property and structures in general to be collected and managed intelligently. ZEnergy allows a rational use of electricity and any other consumption connected with the use of assets (gas, water, etc).

The European Directive 2012/27 makes the goal of making a 20% improvement in energy efficiency by 2020 binding, and requires organizations (real estate assets, public administration, industries) to carry out real energy performance improvement interventions in their assets. Commercial buildings absorb 40% of total energy demand (Source: USA Energy Department).

Excluding labor costs, energy costs account for 30% of a building's total running costs and even more so in Italy, where energy bills are 18% higher than the European average. Italy has acknowledged the European Directive by means of a specific decree that provides for the adoption of structural measures and technological tools that aid energy efficiency. For this reason Zucchetti Facility studies solutions that allow companies and organizations to compete on the energy and facility management market.

ZEnergy manages all aspects linked to asset management



ASSET LIFECYCLE

ZEnergy is the solution created to manage and govern energy and maintenance efficiently, via the 3 main functional areas:

_ Measurement and accounting of electricity, water and gas consumptions

_ Measurement and detection of environmental parameters, linked to energy and the use of assets in general (temperatures, air quality, etc...)

_ Management of alarms and technical and maintenance processes in general

_ Budget management and cost control of energy, maintenance and general management of the asset

To manage these functions, ZEnergy has a series of modules that make the solution complete, flexible and able to answer all asset management needs.

Electricity, gas and water

ZENERGY measures and records energy consumptions in systems and energy lines:



Heating



Cooling



Hot water



Lighting



Aeration



Production process energy

How It Works

TRACK

ZEnergy measures and records Heating, Cooling, hot water, lighting, ventilation and energy consumptions in the production process and in any other system considered to be important in the context in which it operates. The solution crosses consumption data with environmental and energy parameters measured by Building Automation or wireless probes (or data loggers).

VISUALISE

The user has a number of instruments that can show energy consumption of all systems and environmental parameters trends, with notification by pre-set alarms. The assets are mapped via a tree graph, that allows access to inventory, maintenance, technical and energy data.

ANALYSE

ZEnergy offers advanced analysis and reporting functions, designed to help understand the collected data and identify the potential sources of savings. It analyses the information both individually and grouped together and, using the Energy Intelligence and modeling functions, provides for analysis of differences, also via what-if analysis and the integration of data coming from different sources, including ones external to the application (company ERP software, other software, excel, etc.).

SAVE and SHARE

ZEnergy allows saving projects to be defined and monitored, suggesting asset redevelopment interventions by analyzing the actual consumptions of industrial and commercial structures, real estate and their systems and comparison with historical data. ZEnergy aids information exchanges at all company levels and data sharing among companies in the same group and partners, generating significant saving policies.

Parameters

ZENERGY detects and measures environmental, water and energy parameters



Attendance



Humidity



Brightness



Temperature



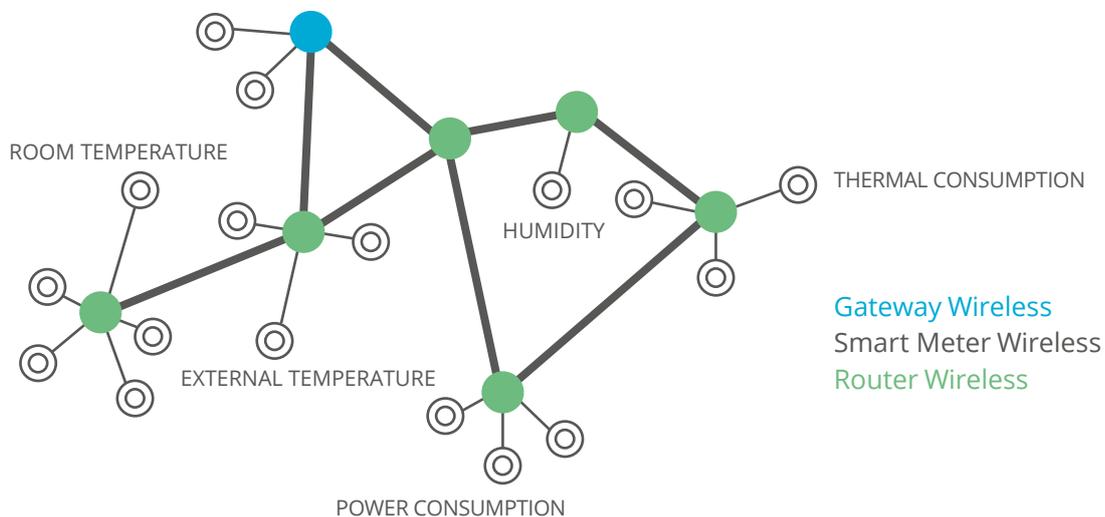
Flow

ZEnergy | the main modules

Inventory and master record: allows recording of all registration information connected with the managed asset. This information is important for calculating energy performance indicators and for fully exploiting the tool's modeling capacity. ZEnergy allows administration, accounting and spatial information etc... regarding any type of inventoried asset.

Monitoring: it is the set of functions required to quickly and practically manage consumptions in each production site, production line, building and any company asset in general. The module includes a series of pre-configured reports with the possibility of sending them at scheduled regular intervals to the allocated recipients. The application acquires data by integrating with the already existing automation and metering systems or by acquiring measurements from probes and installed wireless dataloggers.

Desk: This is the set of gadgets that make up a group of pre-configured dashboards and graphs that can also be customized, indicating the main KPI for an immediate analysis of a system's or building's energy performance.



InfoENERGY is a smart, integrated solution for collecting environmental and system function parameters, and consumption data.

InfoENERGY has a fully wireless set of instruments requiring no cabling and which can therefore be positioned without any structural restraints, with costs that are much lower than traditional systems

The wireless hardware offered is just as reliable as cabled systems and is open to integration with other instruments found in the building.

Formulas and Benchmarking: it is the set of functions dedicated to data analysis via the application of any formula you desire. It is possible to create “virtual” meters for monitoring entities not measured directly but calculated, to show them in a graph according to the main analysis dimensions (time analysis, by each system/building, by geographical area, etc...). The Benchmarking function allows comparisons of a system’s performance with another “similar” one, or with reference consumption models, identifying any operational inefficiencies.

Alarms: allows management of technical, diagnostic and energy alarms linked to all meters and parameters managed. Allows the alarm and its operations to be managed by sending warnings and notifications to technical staff via email.

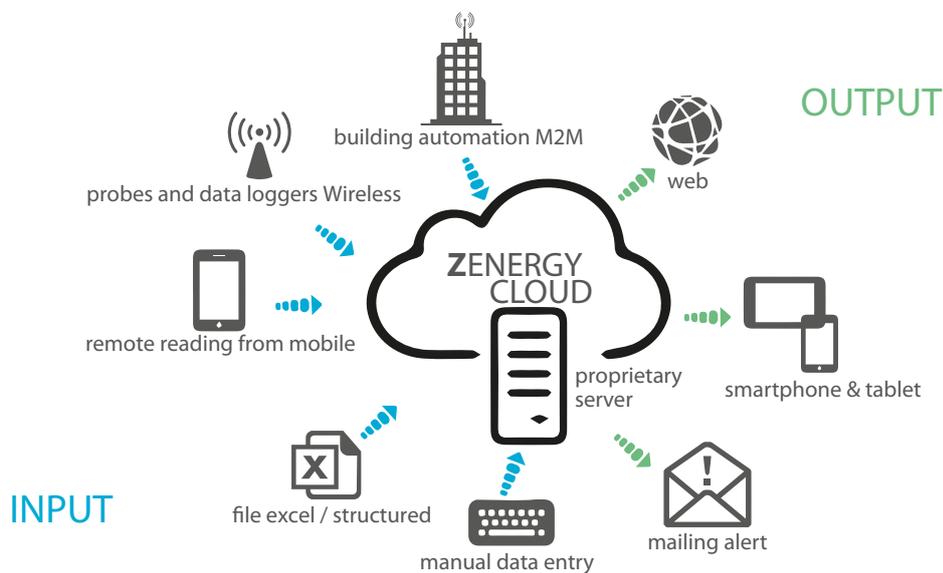
Reporting and Auditing: allows personalized reports to be created in addition to the ones already offered by ZEnergy. The platform includes an integrated query and reporting tool that supports the client in the construction of ad hoc reports requested by their own internal auditors or competent authorities. Allows certification standards linked to Energy Audits to be maintained, to support the operators who need to manage, aggregate, visualize data, also due to legislative obligations, in the ways foreseen by the law in force.



ZEnergy | the advanced modules

Energy modeling: This allows energy models to be created that are dedicated to entire production sites and buildings rather than to individual systems. This allows correlations between consumption and energy drivers analyzed by the system to be identified. This allows the best management policies to be found and costs to be reduced on finding energy inefficiencies, the forecast consumption capacity and consequent technical and organizational changes in managing systems and assets in general.

Mobile: this is the native app for smartphones and tablets that allows real timing viewing of consumption and the possibility of activating meter reading wherever remote readings from building automation systems are not possible for technical or organizational reasons. It also allows recording of any technical and maintenance work carried out on the asset (if the Maintenance module is activated).



WI Monitoring: If required for the project being addressed, ZEnergy has a set of fully wireless instruments (probes, dataloggers, switchboards) that do not require cabling that is integrated with the platform, that can be placed in the asset to provide real time monitoring of energy and environmental parameters.

Maintenance Integration: through full integration, ZEnergy allows all technical and maintenance processes in the asset to be managed, in particular processes connected with energy systems, such as the heating system and station register management.

Invoice Import and Checking: This compares energy consumption costs, acquired via the automatic importation or recording of bill data, with actual consumption data recorded directly from the platform.



Certifications

can contribute to achievement of **LEED**- Leadership in Energy and Environmental Design protocol credit. ZEnergy helps to increase energy efficiency in residential, commercial or public buildings in full observance **of standard EN15232** that sets out four different "BAC" categories of energy efficiency to classify automation systems.

ZEnergy allows its users to adopt a systemic approach aimed at the continuous improvement of energy performance in compliance with the contents of **UNI CEI 16001:2009** and **UNI CEI EN.SO 50001:2011**, the EPBD Directive (Energy Performance of Buildings Directive), Directive 2003/87/CE and Directive 2012/27/UE.

ZEnergy is a useful tool for companies that provide energy services and that want to obtain certification according to the standard **UNI CEI 11352**.



Our Experience

Zucchetti Facility was created from the synergy between the **Zucchetti Group**, which has been a leader in Italy for over 35 years in supplying software, hardware and IT services, and **IB**, a company specialized in the development and implementation of software for technical, maintenance and energy management in any market sector for over 30 years.

Divided into 3 Business Units (Energy Management, Maintenance, Personnel Organization and Productivity), **Zucchetti Facility** combines the experience, expertise and professionalism of two leading groups in their respective sectors, offering themselves as reference companies for firms that aim to optimize company management costs.

Zucchetti Facility's core business comprises advanced, state-of-the-art systems for energy efficiency management, maintenance and asset management processes and staff control and organization systems (scheduling and timesheets).



ZEnergy

Who is aimed at



ESCO AND ENERGY CONSULTANCY FIRMS

that need a platform that can monitor, analyze, foresee and make energy consumption more efficient to support companies in reducing their management costs and in the technological innovation of their production cycles. Consultancy firms need a set of instruments and applications to support their planning, audits and energy certification provided to their clients and aimed at achieving improved overall efficiency and firm savings.



INDUSTRY (manufacturing, food, chemical and pharmaceutical, processing) which has to manage production lines and systems, management sites and machinery. It requires solutions that allow the overall management of the production asset, energy monitoring to reduce waste and control costs, planning of maintenance activities and technical document management.



SMEs & RESIDENTIAL and those managing public and private residential building need to technically manage their real estate assets, to show respect for specific legislation regarding technological system running, monitoring of consumption and management cost reduction, in line with the best practices in the sector and comparing the data coming from operators in the same sector.



HEALTHCARE intended as hospitals and clinics (public and private) for which real estate and system inventory management and facility technical and energy management are essential. This sector is one of the most energy-using environments of all in the market and the one that can benefit from a return of efficiency from a Zucchetti Facility intervention with ZEnergy and its application modules.



INTEGRATED SERVICE PROVIDERS

supporting the technical management of real estate and systems owned by third parties required monitoring of contracts, making the relationship with the client transparent and improving the operational performances obtained. All this can be obtained largely by using and sharing applications that can guarantee energy performance governance and the analysis of technical activities.



PUBLIC ADMINISTRATION needs - for real estate, green areas, roads, infrastructures and technological networks, etc. - to know real estate equity value in detail, planning interventions on systems, monitor energy consumption, control technical and environmental parameters guaranteed contractually by maintenance and energy service providers.



FINANCE includes banks, insurance companies and all operators who need tools, for their offices, branches and real estate and systems, that allow structure inventory management, maintenance and management of systems in the branches, technical budget optimization and reduction of maintenance and energy costs. By centralizing the technical services with tools that can govern energy, allowing important savings in terms of actual consumption and the rational purchase of energy carriers.



BUILDING COMPANIES that require support tools for planning and management of post-delivery real estate management activities. They need to supply completed structures with IT and information tools that provide added value to what is offered on the market and that are aimed at improving energy efficiency, thus making their work more sustainable environmentally, economically and socially.



UTILITIES are companies that operate in the production and distribution of energy, gas and water, in environmental hygiene that requires tools for monitoring energy and environmental parameters that are perfectly integrated with the ones that track system maintenance, managing maintenance teams, digitally preserving technical documents, planning warehouse stock, etc, also using Mobile applications.







www.zucchettifacility.com

**Infinity Zucchetti is the software platform
that satisfies all company area
needs via a wide choice
of dedicated modules: administration,
finance and control, logistics, purchasing,
marketing, sales, post-sales, production,
human resources, security,
energy efficiency,
maintenance management,
IT, communication.**

Available via web, cloud and mobile devices



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