Category: New Technologies

Case Study: Wellness Telecom - WeSave

●●● SPAIN

Official Chamber of Commerce, Industry and Shipping of Seville

WeSave
Control and Ennergy Management Platform for Buildings
Wellness Telecom

Context

Buildings are responsible for 41% of CO_2 emissions. Optimizing them is a short-term need, but the great diversity of situations and solutions complicates energy management, making difficult to achieve the desired savings objectives.

European legislation is promoting this change:

European Parliament Directive 2010/31/UE

Member States shall encourage the introduction of intelligent metering systems wherever building is constructed or undergoes major renovation. They shall promote publications on the energy consumption of buildings to contribute to the awareness-raising of users of these buildings thorough information and communication technologies.
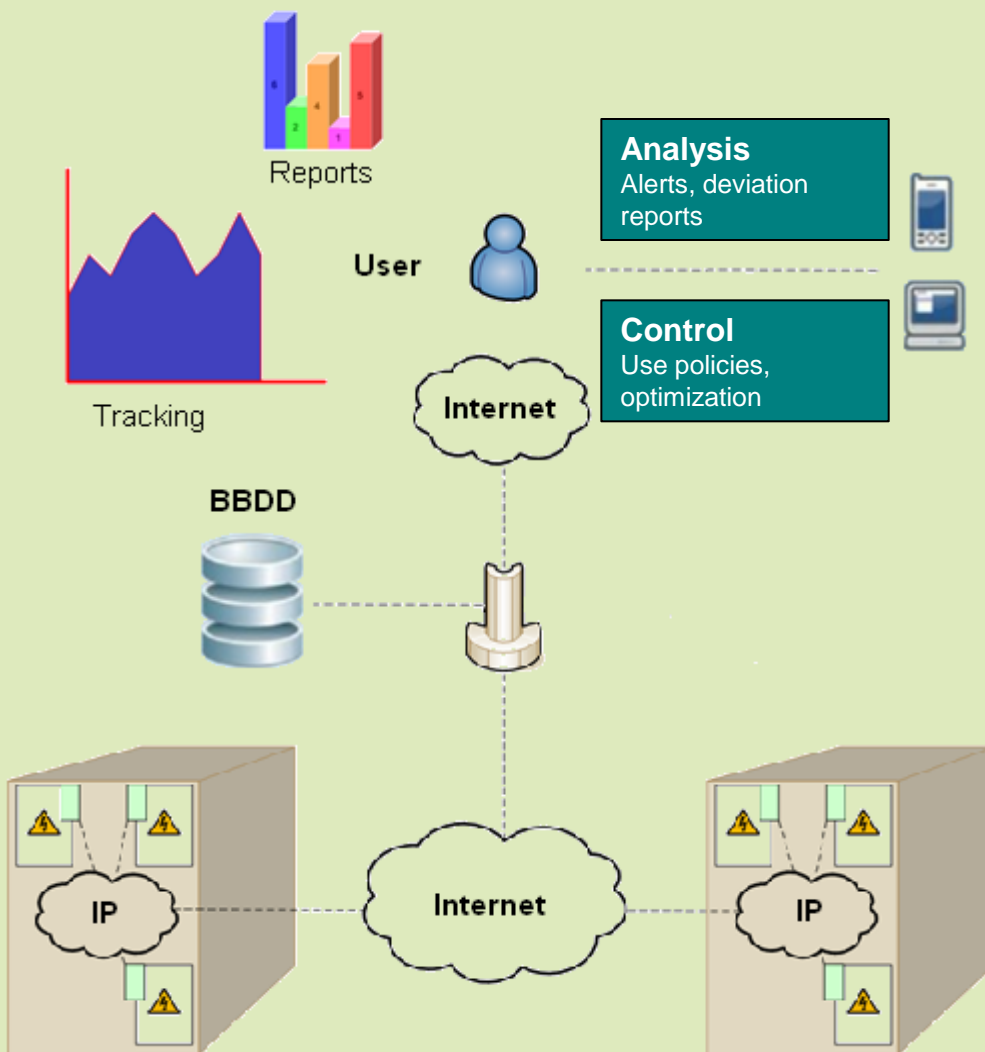
Law on a Sustainable Economy

The adoption of the figure of Building Energy Manager shall be promoted. This person will be responsible for reducing energy consumption by using advanced control and analysis systems, using information and communications technologies to publicize the information and raise the awareness of the users.

In this context, the company Wellness Telecom creates the product WeSave in their line Smart Suistainable City. This product controls the status of all the systems in a building from one single point, allows to know in real time how much energy each item is consuming, detects anomalies and determines usage policies and is able to centralize in real time the information from the different buildings belonging to one organization.

SCORE
Sustainable
Construction
in Rural and Fragile Areas
for Energy efficiency

Reports

Tracking

User

BBDD

Internet

Internet

IP

IP

Analysis
Alerts, deviation reports

Control
Use policies, optimization

● ● ● Description

WeSave is an energy control and management platform for all types of buildings. WeSave makes easy to monitor saving policies and the impact of users on changes in consumption.

Its open architecture makes it compatible with existing systems and aids in the integration of future applications. As it uses the communications network that is already installed, it is not necessary to make any additional investment.

WeSave can also be used to control all the different buildings belonging to one organization from one single point. This makes easy for large companies and civil service departments to adopt general strategies and to carry out real time remote monitoring.

WeSave obtains information on the consumption of the different circuits in the building and the processes it. The WeSave monitoring equipment differentiates between the consumption for lighting, climate control, IT, etc. so as to obtain much more detailed and useful information.
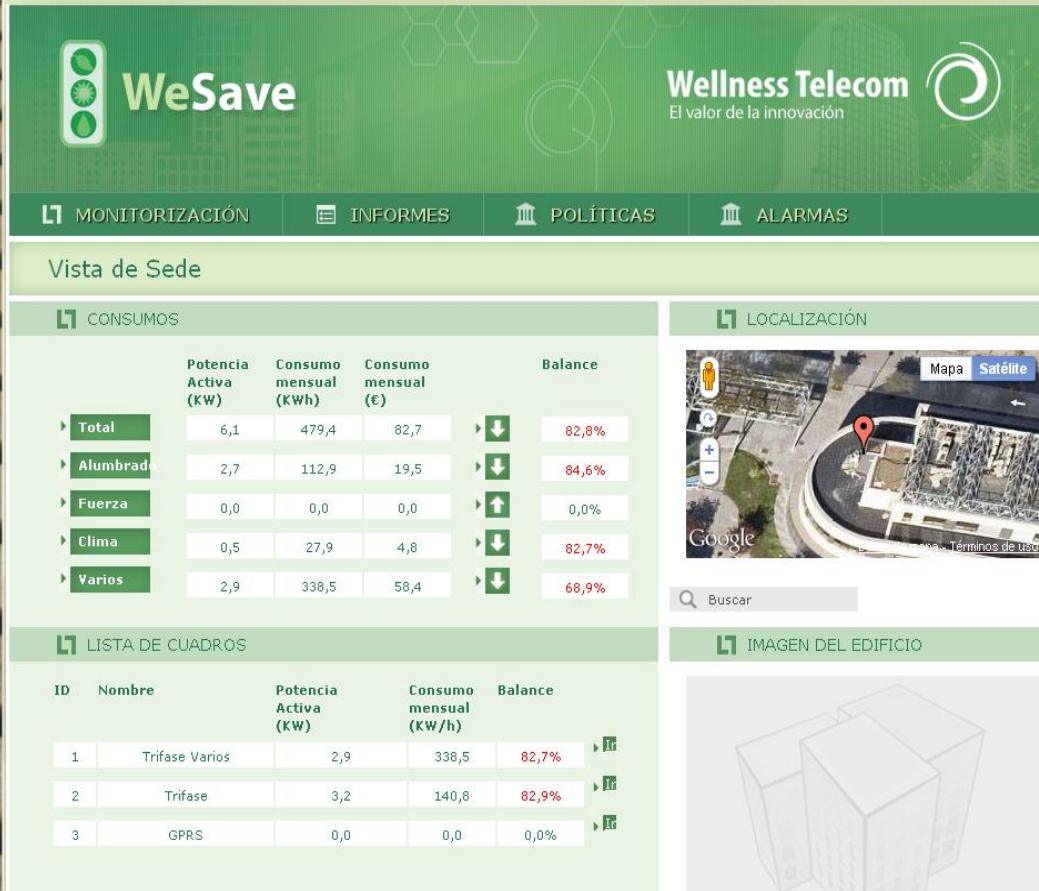
WeSave monitors the different consumption levels, noting anomalies and suggesting corrective actions. In this way, if a fault occurs, reaction time can be improved and efficiency and savings therefore increased.

WeSave can communicate with the different control solutions for climate control, lighting and computer equipment. Based on the information obtained and the analysis, it can define the most appropriate active usage policy and the one that will bring the greatest savings. The open architecture and communications protocol permit existing systems to be integrated, offering more solutions day by day.

The equipment in a building is only one part of its savings ability. The use made of it by the users is a key factor and their awareness is therefore essential. WeSave permits also to send the users of a building personalized information of the energy efficiency achieved.

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Monitoring screen

Evaluation

WeSave allows

- Monitoring of consumption of air conditioning, lighting and equipment.
- Reporting to the letter. Correlation of information.
- Alarms to anomalies. Anticipating and controlling contingencies.
- Establishment of usage policies and monitoring them.
- Increase awareness of employees using personal information.

Benefits

Energy-Related and Environmental

- Reduction in electricity consumption.
- Better use of available resources.
- Reduction of the company's and employees' carbon footprint.

Leadership and Awareness

- Commitment to sustainable energy development
- Active participation of employees and users in savings strategies
- Compliant with European regulations
- Publication of in-house data

Financial

- Electricity bill savings
- Up-front knowledge of the cost of consumption
- Better return on investment for the actions carried out
- Planning to optimize future investments

Potential for transferability

The solution designed by Wellness Telecom is valid for all type of buildings and needs a low investment. Its IP communications based architecture permits information to be centralized easily and transparently.

References and bibliography

•Wellness Telecom. www.wtelecom.es

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