VPS

Virtual Power Solutions

arsLVT

LISBOA E VALE DO TEJO

BUSINESS CASE

Sector

Healthcare

CHALLENGE

Administração Regional De Saúde De Lisboa E Vale Do Tejo (**ARS LVT**).

Project

Implementation of an energy monitoring and management system in 4 Health Care Centres.

Goals

- Reduce energy consumption and related costs
- Provide the ARS with an online and centralised energy management system
- Provide training and awareness-raising to all users of buildings (staff and users) regarding the rational use of energy

4 Healthcare Centres

9 Monitoring Points

Initial Situation

The Regional Health Administration of Lisbon and the Tagus Valley (ARSLVT) is a public institution in the health sector that includes, in addition to its general services, 15 groups of Health Care Centres in the Lisbon and Tagus Valley region. Its mission is to guarantee the population, from the geographical area of ??its intervention, access to quality health care, adjusting the available resources to the needs of the users, and ensure the implementation of the National Health Plan.

ARSLVT has been implementing a set of measures to increase the efficiency of its infrastructures and, simultaneously, to reduce energy consumption and its costs. Virtual Power Solutions' Energy Efficiency Solution was considered the most appropriate tool for the needs of ARSLVT, since it allows to manage and act more effectively on waste and inefficiencies.

However, it is necessary to control energy consumption centrally, in a simple and intuitive way, since there are different consumption profiles for each point to be monitored.

The most visible face of the solution, Kisense software, demonstrated that it was able to meet these and all other requirements that ARSLVT had identified previously, when it was decided to implement an energy efficiency solution.

Investment
€63 000

Savings
9,8%
19.429 €

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SOLUTION

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- The Virtual Power Solutions technical solution is based on a centralised architecture that receives information directly from the devices installed at each monitoring point.
- These devices collect the monitored data and send it to the central system using, in this case, the existing network infrastructure.
- An energy audit was carried out in advance to define the efficiency levels of each building, identify measures to reduce energy consumption and possible investment needs.
- Although Kisense software is intuitive and easy to use, VPS has provided training on all the potential of this tool to optimise the monitoring and management of energy consumption.
- The energy management service was contracted during a 2-year period.
- Through continuous monitoring, additional forms of energy saving were presented, namely by changing behaviours without additional investment (Quick-wins), replacing inefficient equipment with a very attractive payback and renegotiating tariffs.

The Project Implementation

was divided into different stages. At first, the monitoring equipment was installed and its validation was carried out at the Health Care Centres. At the same time, we started to raise awareness about the rational use of energy and started the training sessions related to the use of Kisense software.

Subsequently, the Energy Management Team began its specialised monitoring through energy surveys and audits, analysis of collected data and determination of specific consumption by area (kWh/m2). With this information, energy saving measures were proposed, Energy Rationalisation Plans were prepared and Energy Managers closely followed the implementation of the defined measures.

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RESULTS

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Energy Manager

The Energy Management Team at Virtual Power Solutions has proven that dedicated follow-up, which is done on every project, is vital. Through energy analysis reports, made up by the Energy Managers, several energy management measures have been proposed which have made it possible to meet, and often exceed, the previously defined savings targets.

Most Valued Features

- Segmentation of electricity costs
- Consumption track record
- Real-time monitoring
- Energy Manager
- Customisable reports
- Training sessions in energy efficiency
- Alarms

kisense

VPS is an innovative, market leader in the design and operation of dynamic connected platforms, providing real-time granular data to consumers, network operators and utilities. Minimising consumption by increasing energy efficiency, optimising the time of use and realising the monetisation of loads.

With over 10 years of experience, VPS has a proven team of experts with a strong track record of providing significant benefits to all stakeholders in the modern energy network. Our aim is to become the largest builder and operator of Virtual Power Plants in Europe.

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