VPS

Virtual Power Solutions

ANA Aeroportos de Portugal

BUSINESS CASE

Sector

Airports

ANA Aeroportos de Portugal

CHALLENGE

ANA - Aeroportos de Portugal S.A

Project

Install a monitoring system for energy consumption and integrate it with ANA's billing software.

Objectives

- Identify each area's consumption
- Define costs per unit (kWh, litre)
- Control costs for internal and external clients
- Provide all units with an energy management system

Project Overview

ANA - Aeroportos de Portugal is a Portuguese company responsible for managing all civil airports in Portugal. Alongside its main activity, ANA Group's business portfolio also includes Non-Aviation business areas and the provision of Handling, Airport Security and Disable Passenger Assistance services. The 10 airports managed vary in size, passenger traffic, shopping areas, etc.

For ANA it is vital to know in detail each variable's consumption (electricity, gas, water, diesel, enthalpy and foam), especially those related to each passenger and to each commercial area (external clients). With this know-how ANA can inform its external clients about their own energy consumption and encourage them to change inefficient behaviours.

VPS has been chosen to help ANA achieve its goals by monitoring the consumption of all intended variables. Kisense, the energy efficiency system of VPS, has proven to be crucial in helping ANA to show the impact and the payback caused by the adopted energy efficient measures in this project's 6 airports.

7 Airports

Lisbon
Oporto
Faro
Ponta Delgada
Santa Maria
Horta
Funchal

4000+ Monitoring Points

Monitoring

Electricity
Gas
Water
Diesel
Enthalpy
Foam

Sector

Airports

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SOLUTION

ANA - Aeroportos de Portugal S.A

- VPS technical solution is based on collected data from devices installed in each monitoring point, as well as integrating data from CTM (Centralised Technical Management).
- These devices send the collected data to the central system using, in this case, the existing network infrastructure.
- The installation of the entire system has been ongoing throughout the project due to constant changes of each airport needs (internal and external restructuring, renewal processes, etc.).
- Provide energy management services.
- Support in the interpretation of energy efficiency legislation.

Leading Actions

Monitoring the variables required by ANA Group enables VPS team to provide advice on energy efficiency measures implemented by this company, especially their impact and payback, through a cost vs feedback analysis.

With VPS solution, it was possible to recover a percentage of consumption made by clients external to the Group, which were not billed by this. Therefore, ANA gets to know in detail the consumption and the monthly expenses of each of its external clients. This measure allowed the reduction of ANA's carbon footprint.

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RESULTS

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Key Services

- Energy Manager
- Training activities about energy efficiency
- Real-time monitoring
- Consumption track record
- Customisable reports

Main success of the project

Providing actual consumption data and energy costs associated with each internal and external client, also making this data available on the Group's billing software. Thus, ANA Group can properly evaluate energy costs for each store or client by knowing the monthly consumption of each area, store, client, etc. With this information ANA's ecological footprint has decreased.

kisense ENERGY OPTIMISER

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.

VPS Virtual Power Solutions

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