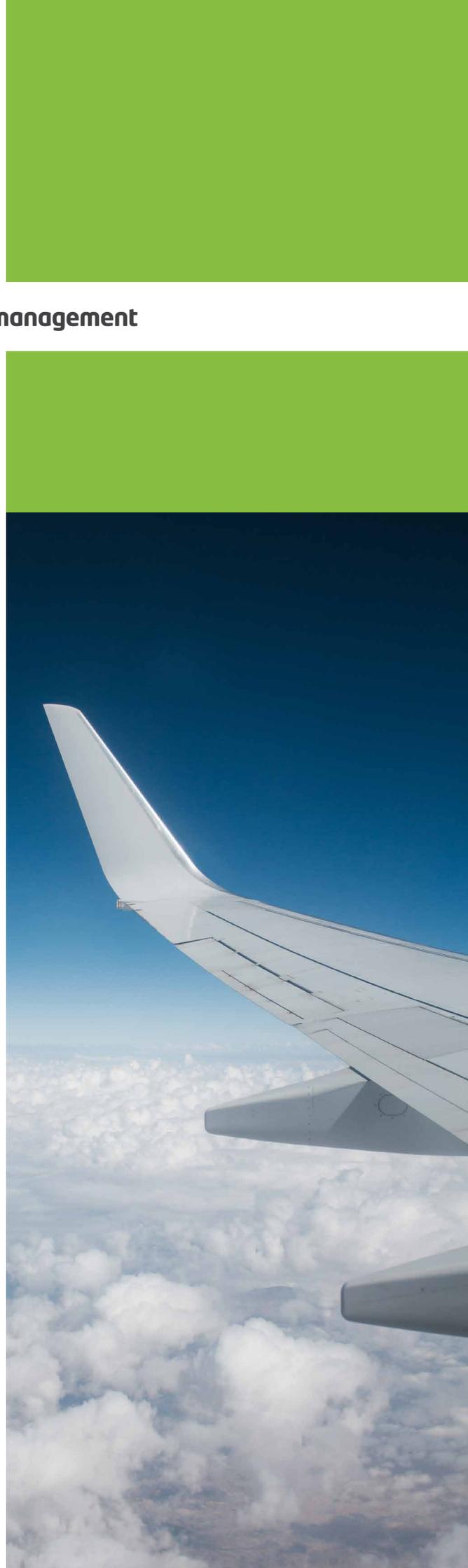


Remote energy monitoring and management

Airports



Virtual Power
Solutions



Airports



Environmental sustainability is one of the most critical challenges of an airport.

Airports can easily be compared to small cities in terms of energy consumption as well as in terms of CO₂ emissions. They belong to a group of infrastructures where more energy is spent, accounting for 5% of the aviation sector's global carbon emissions.

It is therefore essential that airports become eco-friendlier and **less dependent** on energy cost fluctuations. However, comfort and services' levels cannot be hampered.

Airports have always been in the forefront regarding energy efficiency measures, as replacing lighting, electricity production via solar panels and extending glass window areas - to increase natural light inside buildings - demonstrate.

But energy efficiency goes beyond these actions. A good Energy Efficiency System optimises energy consumption and simultaneously increases the quality of every procedure, machinery and buildings' lifetime, as well as passengers and staff's satisfaction. Reducing an airport's carbon footprint is a natural consequence, **especially by:**

- Using different energy sources and water in a more efficient way
- Improving air quality
- Managing all access transportations to the airport
- Adopting reduce, reuse and recycle best practices
- Noise reduction



We want airports to be pioneers and be regarded as benchmark infrastructures concerning the adoption of measures to fight waste and energy inefficiency.



Virtual Power Solutions' Energy Efficiency Solution

Kisense includes several devices that monitor consumption and generate alarms in case of any malfunctions, dedicated and specialised Customer Support and Energy Management Teams.

Kisense's data indicates which measures should be implemented to answer energy cost reduction needs, and identifies each area, department or sector of the airport costs. It is also ready for monitoring every consumption of an airport, from electricity and water, to foam, gas, diesel, etc.

The Energy Management Team analyses data, suggests measures, follows-up each client, and provides training in energy efficiency. Our Energy Managers are specialised in detecting and fighting inefficient energy behaviours.

Energy efficiency comes as a long-term priority.

Our Kisense Software

Kisense software is the most visible face of the Virtual Power Solutions' Energy Efficiency System, complemented by high reliable monitoring devices, and by our Energy Management and Customer Support Teams' permanent follow-up, as a way to make Kisense a complete and effective solution.

Increasing energy efficiency in an airport has several advantages, such as:

- Reduce energy and operations' costs
- Reduce equipment malfunction and failures, and increase their lifetime
- Increase passengers and staff comfort, and satisfaction levels
- Reduce energy consumption and greenhouse gas emissions, minimising the impact on the environment
- Ability to answer properly to legal issues and all constant amendments, both at national and European level



Data explorer

Analyse your energy consumption and act quickly. Know when, how and where energy is spent and find out which devices consume more energy.



Alarms

Define when and how you want to be alerted for excessive consumption that occur outside scheduled time and/or defined objectives.



Events

Identify the key-moments of your company's energy consumption.



Savings

Define saving targets and permanently monitor their evolution. Compare the obtained savings with the implemented measures and perform a ROI forecast of these measures.



Control

Remotely control devices and your company's energy consumption areas, schedule working periods and parameters.



Reports

Obtain customisable regular reports as well as specific reports for the different areas of your company. Closely monitor your company's energy consumption.

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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