



# NOVO BANCO

## BUSINESS CASE

BANKS  
CONNECTED  
DIGITALISATION  
AUTOMATED  
OPTIMISATION  
BUSINESS  
ENERGY  
EFFICIENCY

"The preservation of the Planet should deserve the attention of all, and in particular of the economic agents. NOVO BANCO is naturally no exception, having placed its capabilities as provider of financial services at the service of nature conservation." - NB



**Virtual Power  
Solutions**

[www.vps.energy](http://www.vps.energy)

The power to do more with less

# CHALLENGE

## Project

Implementation of a centralised energy management system in all Novo Banco facilities.

## Goals

- Energy consumption reduction by 10%
- Centralised knowledge of real consumptions in all bank facilities
- Standardisation of energy consumption policies for its facilities, by setting up rules and regulations
- Increase staff awareness about energy efficiency
- Creation of campaigns enforcing the adoption of energy efficient behaviours
- Promote Novo Banco as a "green", environmentally friendly company

## Initial Situation

Novo Banco (NB) is nowadays one of the largest private banks in Portugal, present in 25 countries and 4 continents, through branches, sales offices or affiliated firms, making it one of the most international Portuguese financial groups. In Portugal, NB facilities include more than 700 branches and 19 buildings.

Its sustainability strategy is based on optimising energy consumption in every branch and building. And, since NB is a benchmark financial institution in Portugal, the strategy is also to become a reference in energy efficiency.

By analysing its real energy consumption values, NB concluded there is room for significant improvement in energy consumption patterns throughout its facilities. The decision to establish a partnership with Virtual Power Solutions is seen as the best path to develop a project for energy consumption reduction, where NB can reduce its ecological footprint, energy costs and, at the same time, launch an internal campaign to encourage staff to adopt efficient behaviours.

## IN NUMBERS

**19**

Buildings

**358**

Branches

**€ 5 000 000**

annual energy consumption

**1998 +**

Monitoring Points

**€ 600 000**

Actual annual savings





# SOLUTION

- The Virtual Power Solutions technical solution is based on a centralised architecture that receives information directly from every device installed at every bank branch and building, sending the collected data to a central system via the existing network infrastructure.
- The first stage of this project was auditing the bank's facilities, followed by the definition of policies aimed at consumption reduction.
- Although Kisenze 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.
- Kisenze provided detailed information about real energy consumption values in NB facilities, remotely and in real time.
- Information gathered led to implementing measures towards improving NB's energy efficiency and energy management.

NOVO BANCO

## The Project Implementation

was divided into 4 complementary stages. The first was the energy assessment of all branches and buildings. After this stage, VPS technical staff went to every facility to install the monitoring devices, in a process that took approximately 3 months.

The third stage was the initial analysis. During this phase, it was defined the energy consumption profile for each branch and building. Also, the first few measures for optimising energy usage were implemented, particularly some quick-wins that did not represent any additional investment.

The last stage, and the most important one, is a non-stop circular process that has been running since the beginning of the project in 2011. There are three phases: measures definition and proposal by VPS; implementation of the chosen by NB; management and verification by VPS and NB. Measures can vary from behavioural changes to replacing equipment or the adoption of new technologies.



# RESULTS

## Main Benefits

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

## ROI

- Actual annual savings €600 000
- Payback < 2 years

## Major Improvements

- Replacement of equipment in all the bank's facilities, favouring more efficient devices
- Change in staff behaviours regarding energy
- Enhancement of NB's corporate ecological positioning along its various stakeholders



Virtual Power  
Solutions

**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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