REDUCING CARBON EMISSIONS

CHALLENGES

- Connectivity in older buildings

- Minimal disruption

- Reduce costs

- Supplying easy to use equipment that is simple to set up and use

- Providing a solution which can be remotely managed

- Creating a solution which could be up and running in just 2 days

SOLUTION

With the Netvox R711 indoor temperature and humidity sensor, the Netvox R718N17 current meter and the Kerlink Wanesy Mangement centre, Novacene were able to deliver a reliable, low-cost solution which when integrated with their industry-leading platform delivered fast results to meet their customers' requirements.

The Customer

Novacene specialise in helping businesses to digitise their environmental audit requirements. With their industry-leading platform, Novacene are the cornerstone of smart IoT solutions.

Through the Novacene platform, customers are able to access real time data and historical reporting, helping them to save time and provide peace of mind. With the ability to also set alerts and thresholds, users of Novacene platform are able to make more informed decisions and act upon alerts in a timely manner.

Working alongside Alliot Technologies, Novacene help their clients to create innovative end-to-end solutions. These solutions are simple to install, enabling customers to see a quick return on their investment.

Through their powerful offering, Novacene's clients are able to automate processes, activate proactive alerts and remotely monitor their environments through one intuitive dashboard.

Business Challenges

Novacene was approached by an industrial landlord who was looking to reduce spending on the older assets within their portfolio. As part of their solution they were also looking to reduce the environmental impact of their vacant stock in France.

Property investors, developers, agents and building managers are becoming increasingly aware of the critical need to consider environmental factors and their impact. The Internet of Things can play a critical role in helping landlords and occupiers to adapt buildings to reduce carbon emissions, helping them to get to net zero.

Novacene called on the help of Alliot to build their solution, the main objectives of the solution were:

- To reduce spending on energy bills

- Cut carbon emissions

- Provide a solution which could be remotely managed and monitored

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The Solution

Alliot worked with Novacene to develop the ideal solution to address their application. Alliot's recommended solution consisted of:

• Netvox R711 temperature and humity sensor

• Netvox R718N17 current meter

• Kerlink Wanesy Management Centre

Netvox R711

With a compact form feature, the Netvox R711 temperature and humidity sensors were placed throughout the 30,000 sqm building to provide accurate data on the building conditions. From this information, the landlord is able to identify if the temperature falls/rises above a certain level, enabling them to take the required action.

Netvox R718N17

The Netvox R718N17 Current Meter was connected to equipment within the building to ensure nothing was left running when the building was vacant.

Kerlink Wanesy

Paired with Kerlink's Wanesy Management Platform, Novacene are able to remotely manage and configure devices within the building, ensuring they are performing correctly and providing a reliable solution for the landlord, wherever they may be.

Novacene Platform

Novacene's platform plays a pivotal role in the delivery and ongoing management of this solution. Tying all elements together, the Novacene platform provides a visual representation of the data recorded. Ultimately allowing their client to view, analyse and act on the data recorded.

How it works

The Netvox R711 and R718N17 sensors were installed througout the building to maintain accurate records of the indoor temperature and humidity levels and monitor any equipment which may have been left running. Data recorded by these sensors is then transmitted via a LoRaWAN gateway to the Kerlink Wanesy network server.

From the Kerlink Wanesy Management centre, Novacene are able to remotely congifure and add sensors and gateways, helping them to ensure everything is working as it should be. Acting as a bridge between all components, recorded data is then transmitted to Novacene's platform ready for visualisation by the landlord and their off site team.

Should any of the data recorded be outside the landlord's set parameters, the Novacene platform will automate an alert, enabling them to address potential issues before they arise.

The Results

With Alliot's support, Novacene were able to create a reliable, cost effective solution for its customer which was up and running in just 2 days.

Within one week of installing the solution, the data presented on Novacene's platform revealed that the constant temperature of the building was at least 19 degree celsius. This enabled the off site team to identify that the boiler and heating system were working on a timer at night, which was set by the previous tenant. The offsite team had missed this as their sporadic site visits were during the day when everything appeared to be turned off.

Through their LoRaWAN solution, Novacene's client are now able to remotely control the system and ensure a constant temperature of 55 degrees. This has helped to ensure that the sprinkler system does not freeze, ultimately optimising overall energy usage.

Through the implementation of their solution, Novacene has enabled the landlord to achieve a reduction of 60 tonnes of carbon a month, saving them over 120,000 Euros on their annual operating costs.

As a result, the customer has created a subsequent policy for vacant building temperature monitoring across their entire property portfolio. Alliot are now supporting Novacene in upscaling this project, helping the landlord to reduce their carbon footprint by thousands of tonnes a month. With these savings, the landlord will see a quick return on investment with the project forecasted to pay for itself in less than 44 weeks.

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