This presentation was live at:



18-19 October 2023 • ExCel London



About us



The UK & Europe's leading specialist supplier of IoT Hardware and Services



How we can help...



Sensors - over a 1,000 different sensors available on the market. We work with over 45 of the world's leading manufacturers in the LoRaWAN & NB-IoT sensor market enabling us to supply the best fit solution for your application.



Gateways - Gateways provide the LoRaWAN network coverage that connect your sensors to enable them to send data.



LoRa Network Server (LNS) – The data from the sensors pass through the gateways and connect to these servers by ethernet or cellular connections.



Software Applications – Once the data has been collected via the LNS you will then need to send this to a software platform to visualise the data.



Connectivity – For those looking for NB-IoT connectivity, we can supply everything you need to get connected

Our Services





Remote Installation of Software & Hardware



Product Recommendation & Solution Design



Pre-Quote Planning



Device Provisioning & Labelling



Ongoing Project & Product Consultation









Projects We Help To Deliver





Smart Buildings

Improve efficiencies by monitoring energy usage and occupancy levels



Logistics



Manufacturing

Keep track of your vehicles and Prevent machinery downtime equipment with Asset Tracking with predictive maintenance. Solutions.



Sustainability

Take a step closer to achieving Carbon Net Zero

& Much More!





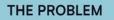


- 1. We first need to establish if the building is connected to a BMS, this will help us to identify the key components required for the project.
- 2. How you will use the data for the benefit of the project to make it a success



So, what does this look like?

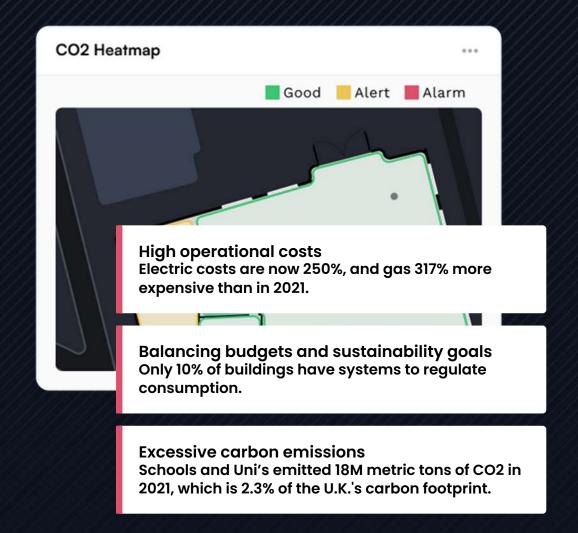
Movacene



Idle Giants: The Cost of Dormant Efficiency

Just as you wouldn't let your car engine run idly overnight, buildings shouldn't waste energy and resources.

Buildings, especially public ones like schools and universities, struggle with high operational costs and excessive carbon footprints due to inefficient energy use.



OUR SOLUTION

Revolutionising Building Management with IoT

Novacene's advanced IoT platform offers real-time insights into energy usage, helping institutions significantly improve energy efficiency, reduce costs, and work towards a sustainable future.

- Deployed in over 170 facilities
- Contracts won with 6 major UK councils
- Partnered with leading brands such as Capita and NEOM.



Real-time insights on energy usage Reduced energy consumption c. 20-25%.

Rapid digitisation and significant ROI 100 x Faster.

Assisting with sustainability targets Govt Net Zero targets - 50% reduction by 2030 and 100% by 2050.

MARKET OPPORTUNITY

Preferred Partnerof Industry Leaders

As Novacene, we've rapidly established our credibility, becoming the partner of choice for industry giants like Capita. Our trusted technology is already deployed across various sectors, underlining our ability to deliver and scale.







































The Solutions...





Water

Monitor consumption or detect leaks with our range of water sensors.





Gas

Remotely monitor gas pressures and improve environmental efficiencies.





People Counting

Optimise building occupancy and efficiencies with smart people counting devices.

Air Quality

Monitor indoor & outdoor conditions to improve conditions or to demonstrate compliance.

Electricity

Build up a better picture of consumption and reduce costs with the data to make more informed decisions.

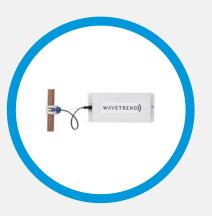
Water Monitoring



BMeters

Water Meters

Extensive range of LoRaWAN-enabled water meters suitable for domestic & larger industrial water units.



Wavetrend

Water Temperature

Clip on Temperature sensor, Ideal for monitoring legionella compliance.



Quandify

Cubicmeter

Non-invasive clip-on water meter



Kairos

Noah

Flexible water leak sensor with customisable membrane

Air Quality Monitoring



Elsys

Air Quality Sensors

Multi-Sensors which combine temperature, humidity, VOC & more.





Milesight

AM307

3-in-1 sensor combining CO2, temperature & humidity.



Synetica

Air-X

Outdoor air quality sensor capable of measuring 14 parameters.

Gas Monitoring



Ellenex

Gas Pressure Sensor

Durable pressure transmitters with built-in temperature sensors.

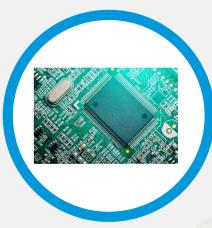




Decentlab

Pressure Sensors

Suitable for monitoring pressure in tanks or for global environmental surveillance.



OEM Options

Brand your own

Our partners can help to deliver your own specific sensors.

Electricity Monitoring



Eastron

Electric Meters

Available for single or multiphase. MID certified devices.





Netvox

R718N325

Simple to install 250A Clamp-on Current Meter



Watteco

Triphas'o

Suitable for monitoring consumption on single and three-phase installations. Available with Rogowski loops.

People Counting



IMBuildings

People Counter

Counts people in and out of buildings.



Milesight

VS133

Ceiling mounted people counting with Al algorithm.



The problem

We need to achieve Net Zero

Action taken to limit emissions in the next decade will be critical to the future, which is why everyone must work together to find ways to cut the carbon we produce.



The process

Reducing energy use and costs is easier when you know how a building actually runs. Without a measure of your building, how do you manage it - let alone improve it?

That's why we help you establish the baseline you need to improve. We do this by automatically measuring performance and switching things off.

Add sensor

Install a device with a ten-year battery life into the classroom and mark its location on the floor plan. It's as simple as that.

Baseline information

From the sensors we extract real-time building performance baseline information and see where improvements can be made.

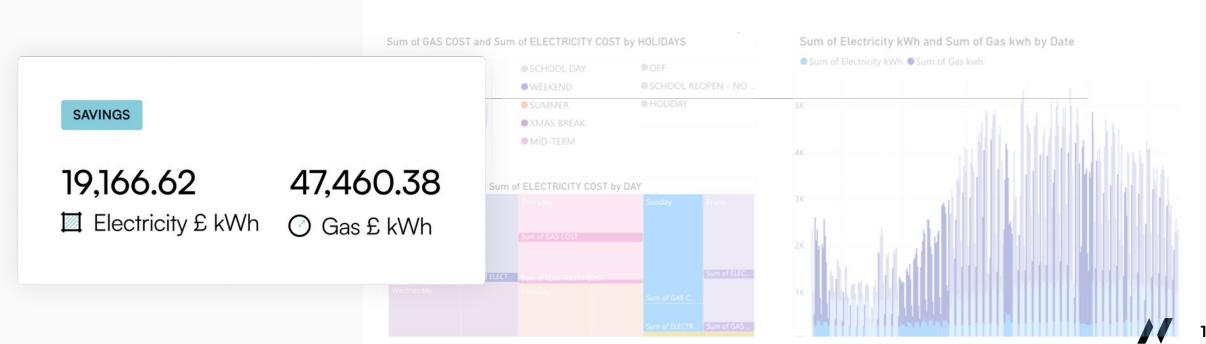
Calculate waste School holidays? Get control and optimise

Weekend? Things like boilers or air conditioning units waste energy when the building is unoccupied.

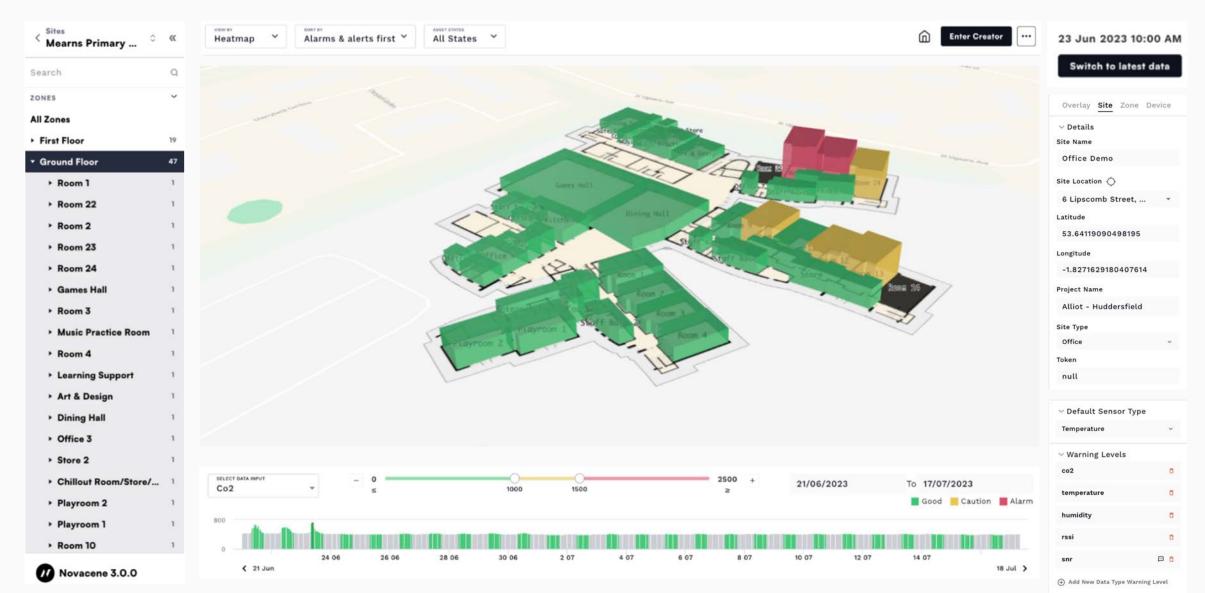
Even buildings with boiler control and Building Management Systems (BMS) aren't that smart. Just check your utility bill for the evidence.

Calculate Waste

Analysing the data collected by the sensors provides you with the insights you need to improve your building performance. We figure out when and where your waste is and save you money on both your electricity and gas bills.



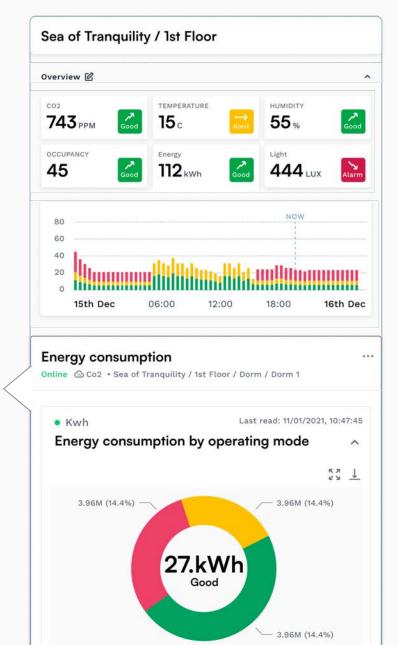
Baseline Building Performance





The greenest energy, never used

The sensors allow real-time control over the classroom environment. Teachers and staff can simply scan the QR-code and get real-time information about the rooms Co2 and energy consumption.



Going Forward...



Simple to Scale

- 2. Partners can expand and enhance their solutions
- 2. Provides a fast ROI





9-10 October 2024 • ExCeL London

We look forward to seeing you in 2024