

Bramble Hub

Connecting SMEs and the Public Sector

Crown
Commercial
Service
Supplier

G-Cloud 15 Lot 2b

Bramble Hub - ecoDriver Energy Management System

Service Definition

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Reference: G Cloud 15 – January 2026

ecoDriver

January 2026

www.ecoDriver.co.uk



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Energy Management System



Presents Granular Energy Data in Easy-to-Understand Format



Identify & Remove Energy Waste – Pinpoint Consumption



Average saving in NHS is 5-10% reduction in consumption within twelve months

How?



Collect consumption data from MOPs and any existing metering or sub-metering



Install any level of sub-metering, monitoring, sensors, transmitters to give the desired granularity and breadth of data.



Electric, Gas, Water, Heat, Steam, Solar, Occupancy, IAQ, OAQ, Oil and more.



Transmit back to ecoDriver cloud via Cellular or Network



Why ecoDriver? Available Services



Identify & Remove Energy Waste - Full ROI delivered in 6-12m



Sustainability Partner, rather than just a vendor



Data Audits – Completed by CIBSE Low Carbon Engineers



Energy Literacy Programme



Collaborative Energy Efficiency Programme



Invoice Validation



Collaboration - Unlimited Licenses



Beyond kWh (Active Power, Export, Import, Current, Total Power)



Complex data, Simple Decisions



EDDIE – AI





Built in AI Sustainability Assistant



Quickly runs data queries, produces reports and identifies anomalies



Can offer advice and guidance on what is causing spikes and how to remedy them.

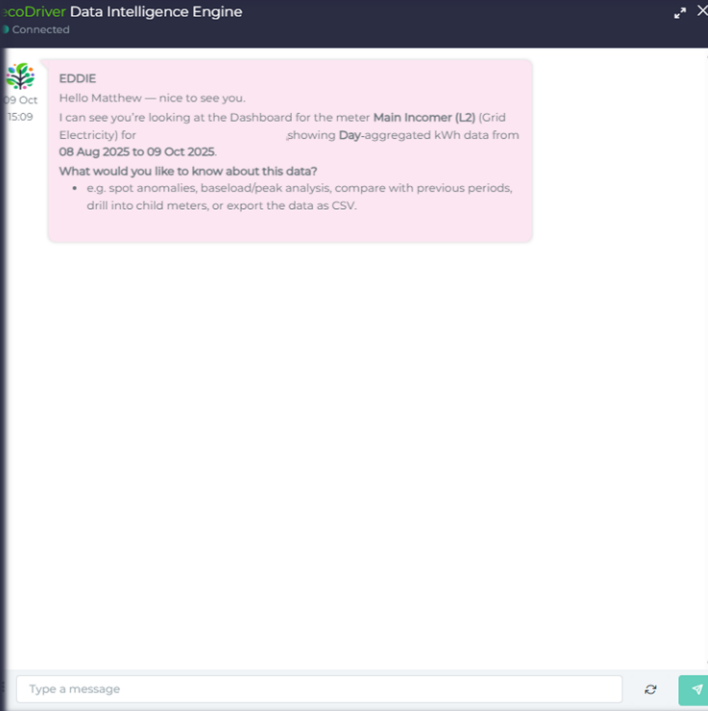


Enrich EDDIE with further information to draw from, such as occupancy hours, services running in that area, makes/models of equipment and much more, to gain site specific advice



Common requests answered by EDDIE:

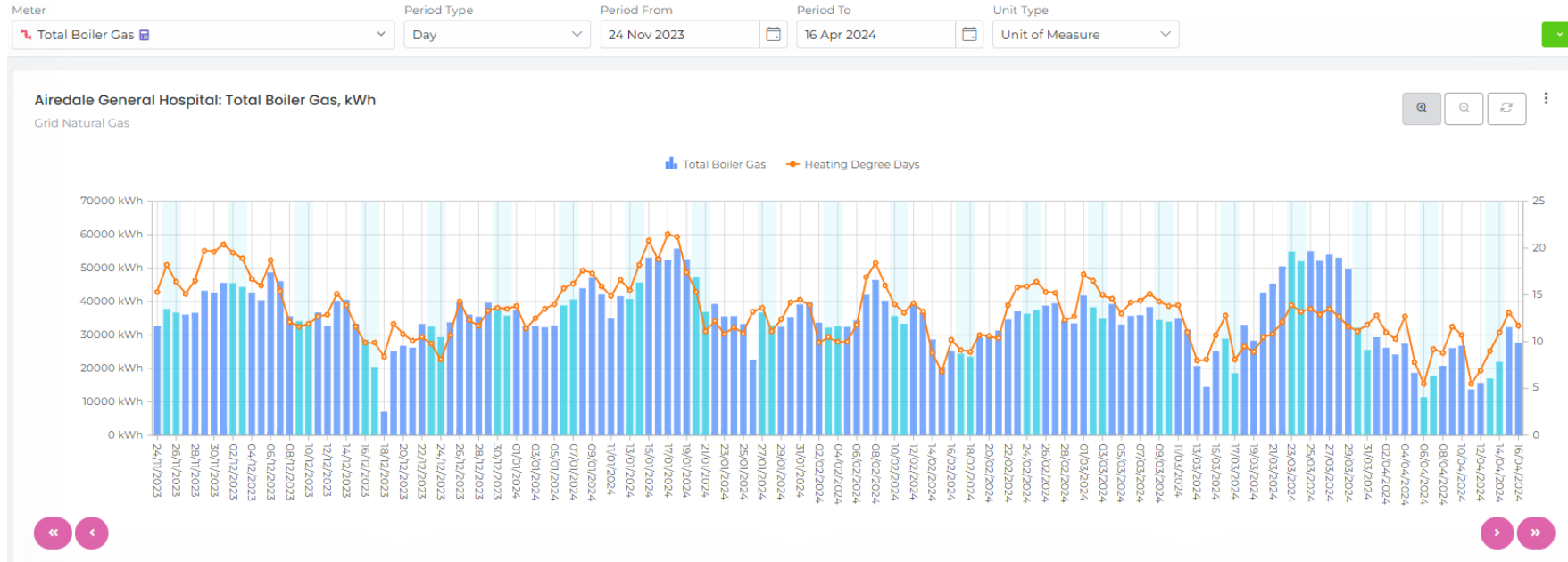
- What anomalies are there in the data?
- What could be causing this consumption spike?
- How does this compare to previous periods?
- Is this consumption weather correlated?
- Produce a table showing monthly consumption and emissions and email it to me.



Example A: Airedale Hospital



Gas consumption stopped correlating with heating degree days



The process to remedy:



Checked temp sensors, schedules, set points – all fine



Arranged call with BMS Engineer who checked signals and said there were no faults



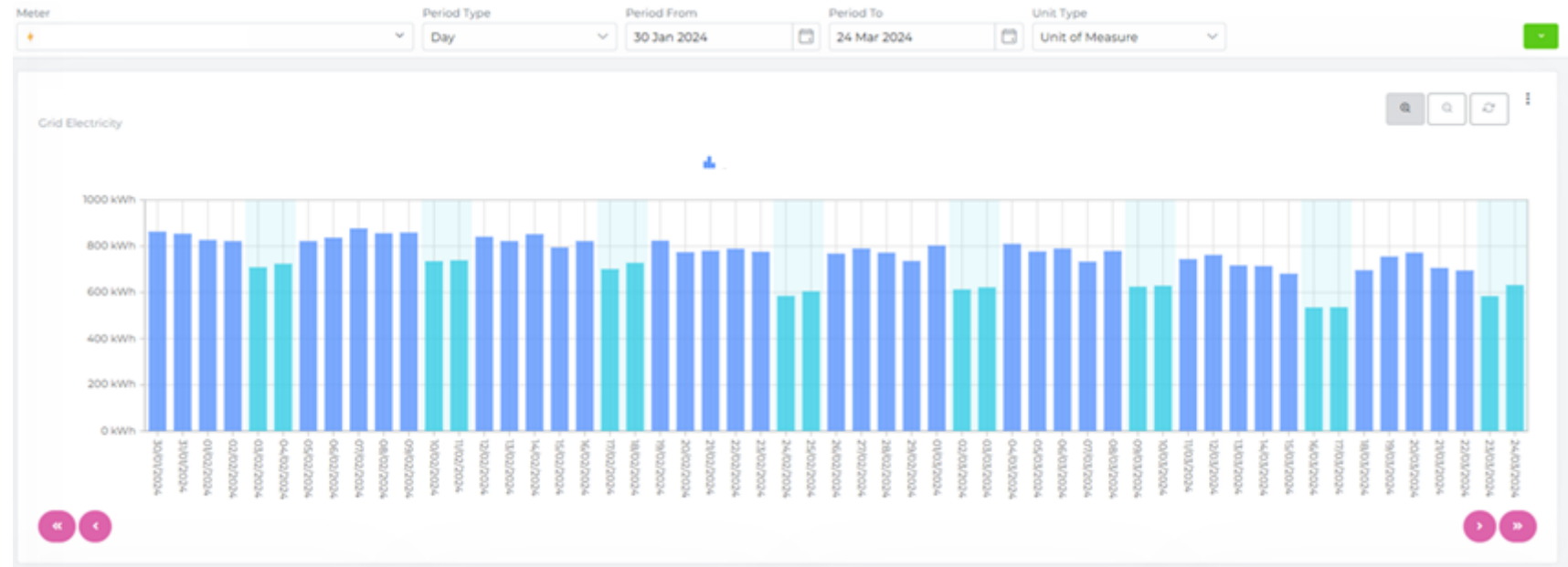
Check flow & return temps on heat circuit, then supported by data, identified issue as 3-port valve not closing properly.



Example B: NHS non-Clinical Area



Weekend consumption similar to weekday, despite being unoccupied.



Average Daily Consumption – 801kWh

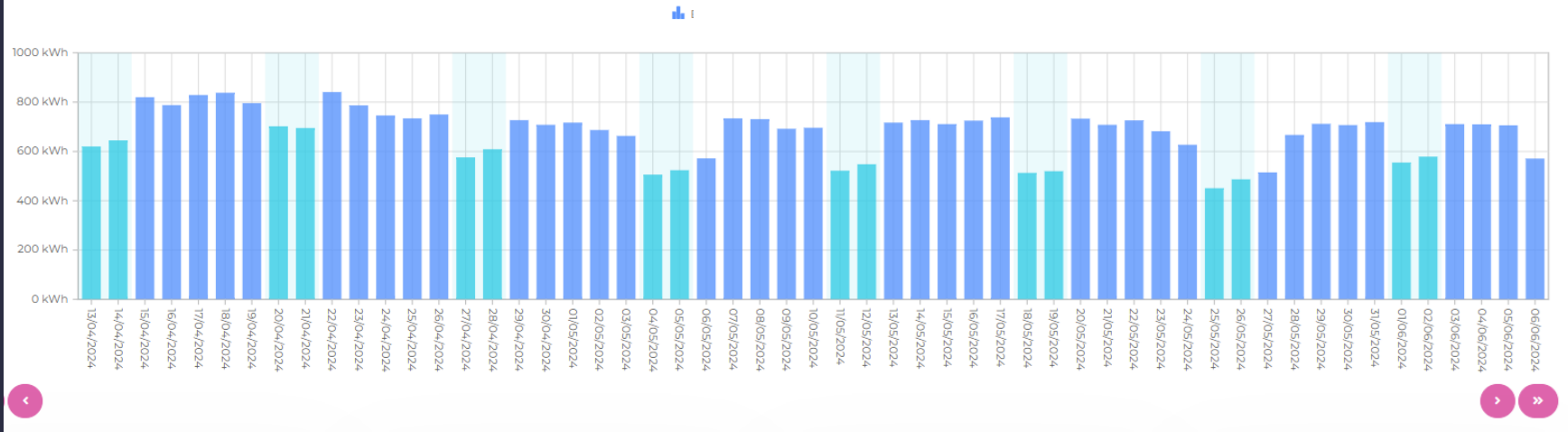


- Engagement Programme
- Understanding Occupants
- Average 157kWh per day saved
- Circa £15k Annual Savings
- 11,862kg CO2e Annual Savings
- Positive News Spreads



Example B: Office Space

- Engagement Programme
- Understanding Occupants
- Average 157kWh per day saved
- Circa £15k Annual Savings
- 11,862kg CO2e Annual Savings
- Positive News Spreads



The process to remedy:



Identified computers being left on standby (Staff education & Engagement)



Desk fans, lighting, heaters, ventilation on out of hours (Staff education & Engagement)



Schedules incorrect / hadn't been updated



Resulted in Average Daily Consumption reducing to 644kWh



- Weather Corrected YoY Savings
 - Electricity Reduced 22%
 - Gas Reduced 18%
- £200k+ Energy Savings pa (20%)

Example C: Ministry of Justice (102 Petty France)



ecoDriver Conducted Weekly Audit on Data
Produced Report for FM Team to Action

Identified issues & fixes:



BMS & Lighting Controls



Alternative Primary Cooling for IT Equipment



Advanced Planning for Bank Holidays etc



BMS had been installed & commissioned, but then not optimised and maintained with building operations.



Settings changed, sensors out of calibration, equipment faults, changes in equipment, clock changes, change of staff, occupant “requests” change in room uses, change in occupancy hours.

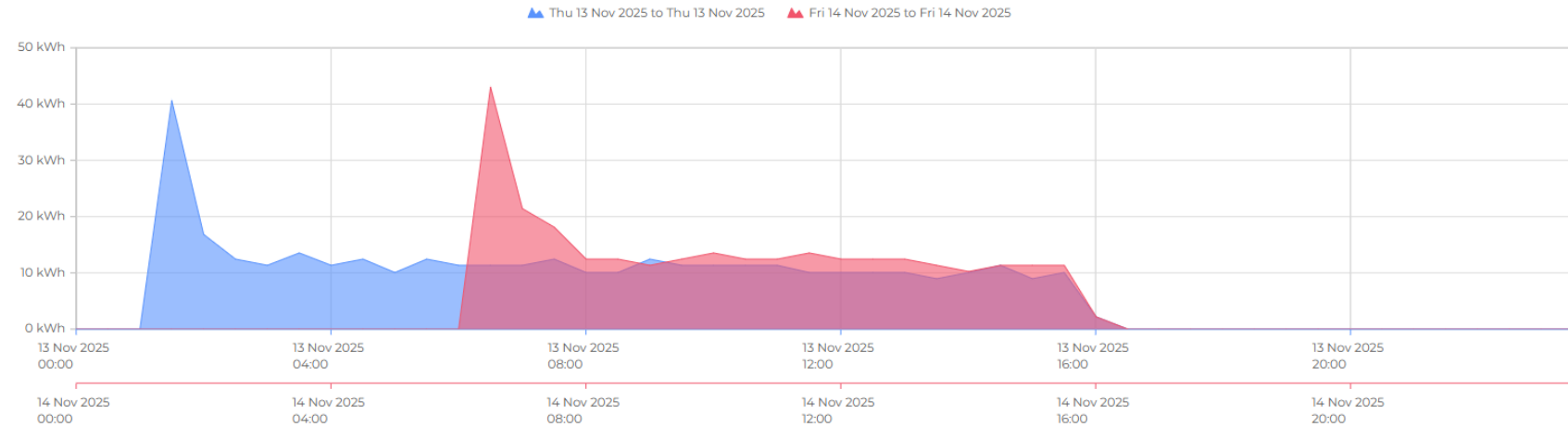


Example D: Birmingham Community Healthcare NHS



Heating Consumption: Before & After Changes

Charlotte Road Health Centre-1807 kWh
Time Comparison



Identified issues & fixes:



Some heating controls offline from BMS and set to manual



Consumption from 1am – 3:30pm every day



Occupancy hours 8am – 4:30pm Monday to Friday



Optimisers & Warm-up Limit changed from 360 minutes to 60 minutes

- Out of hours heating (Gas) consumption identified
- Simple to configure changes made on BMS to align with schedules
- 80kWh Savings Per Day
- At least 3 Sites with same issue, £1,825 saving per year, per site
- £5,475 saving per year.
- 16,118kg CO2e savings pa



Full ROI Delivered within 12 months

Hardware & Install

- Meter Survey & Design Strategy Conducted at start of project (more info next slide)
- Look to utilise existing infrastructure where available, or plug gaps in data where needed

Setup & Training

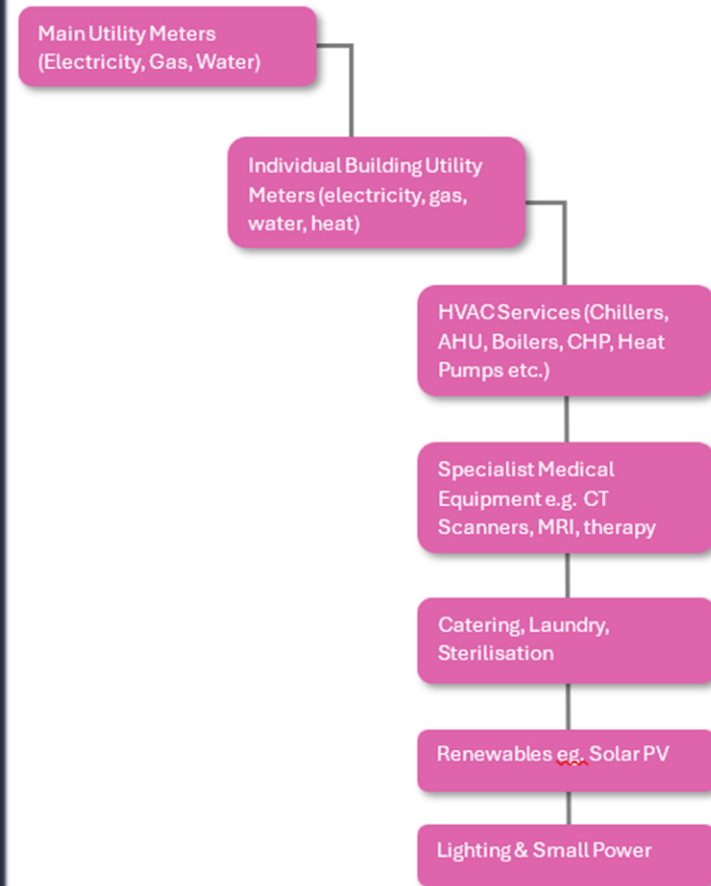
- Ensure Data Reporting Correctly
- System Training
- Initial Audit of Energy Data to Identify Inefficiencies
- Optional Programme available for ongoing audit of data

Software

- Annual SaaS License based on Number of Meters
- Unlimited User Licenses
- Includes Ongoing Support
- Infrastructure to Enable Growth



Meter Survey, Strategy & Design



- ecoDriver will conduct an on-site survey and produce a meter design document in line with CIBSE TM39, included in the pricing.
- This meter design document will provide the roadmap to full metering infrastructure and strategy for the whole site.
- Metering should provide sufficient evidence to pinpoint avoidable wastage without requiring expensive & time-consuming investigation, along with maximising visibility of areas that are most likely to result in opportunities to achieve savings and deliver project payback in reasonable time.
- Our process references CIBSE guide 'TM39 - Building energy metering' and 'TM22 - Energy assessment and reporting method'.
- Our metering strategy would typically include the items to the left:



Engagement Programmes

Maximise and Expedite Your Energy Savings



Collaborative Energy Efficiency Programme (CEEP) 12m :

- ecoDriver conduct regular energy audits on your behalf with stakeholder input to identify wasteful areas.
- Fostering a network of "Energy Champions" from different departments.
- ecoDriver engaging with often siloed teams and implementing targeted solutions based on industry expertise.
- Empowering the trust community to take ownership for long-term sustainability.



Engaging Energy Literacy Programme (ELP) :

- Year-long program with educational materials and interactive seminar.
- Demystifies energy usage and connects it to the trust's operations.
- Includes regular interactive webinars on energy topics, available live and recorded.
- Explains data captured by ecoDriver for clearer understanding.

Investing in a Brighter Future:

These comprehensive programmes empower all departments, and staff to become active participants in creating a more sustainable future for their trust and the planet.

Prices available on request and scalable based on involvement





Do you install the kit? Yes, we can install the kit or provide guidance for site teams to install themselves, during a scheduled shut-down, for example.

How does ecoDriver connect to the internet? Our gateways can work via wired network connection or cellular (5G).

Are you available on frameworks? Yes, ecoDriver is available on multiple frameworks.

How do we know what metering we need? ecoDriver can make a recommendation for you based on a small set of questions and understanding of the buildings, or we can complete a full meter survey & design document for you to keep, in line with CIBSE TM39 (included with your CEPA order).

Example Sectors: We have a strong presence in NHS, along with both public and independent schools, hotels, manufacturers, public & commercial office spaces and visitor attractions/stadiums.

What utilities do you monitor? We monitor most energy types & generation already, down to individual socket or device level if required, along with environmental data such as Indoor & Outdoor Air Quality. If there is a device available to record data, then we can bring the data into ecoDriver.

What kit do you install? We use existing kit where available/working correctly. Where we provide the kit we will provide industry standard, open protocol hardware that can be used with any compatible system(s).

Can you connect to BMS? Yes, we do this frequently with various BMS.

Is there an API available? Yes, we have an API available for all users.

How many user licenses? User licenses are unlimited. We believe sustainability is everyone's responsibility and therefore it's important for everyone to have access to the data, and that it's easy to understand.

Can you add more metering over time? Yes, the kit that we install provides the infrastructure to increase monitoring as desired over time.



Since 2023, ecoDriver have been part of the Built Cybernetics Group PLC (previously Aukett Swanke PLC Group.)

Built Cybernetics plc is a £20m+ turnover AIM-listed PropTech Group focused on Smart Buildings and related services, ensuring the technical systems that run modern premises are designed as an integral part of the structure from the outset.

As required, ecoDriver can draw on knowledge & expertise from other areas of the group to assist with your needs.

**aukett
swanke** 

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