



HARNESSING THE POWER OF DATA WITH GRID EDGE AI

ACCELERATING TO NET ZERO, ALL-ENERGY
CONFERENCE

JIM SCOTT, CHIEF PRODUCT OFFICER, GRID EDGE

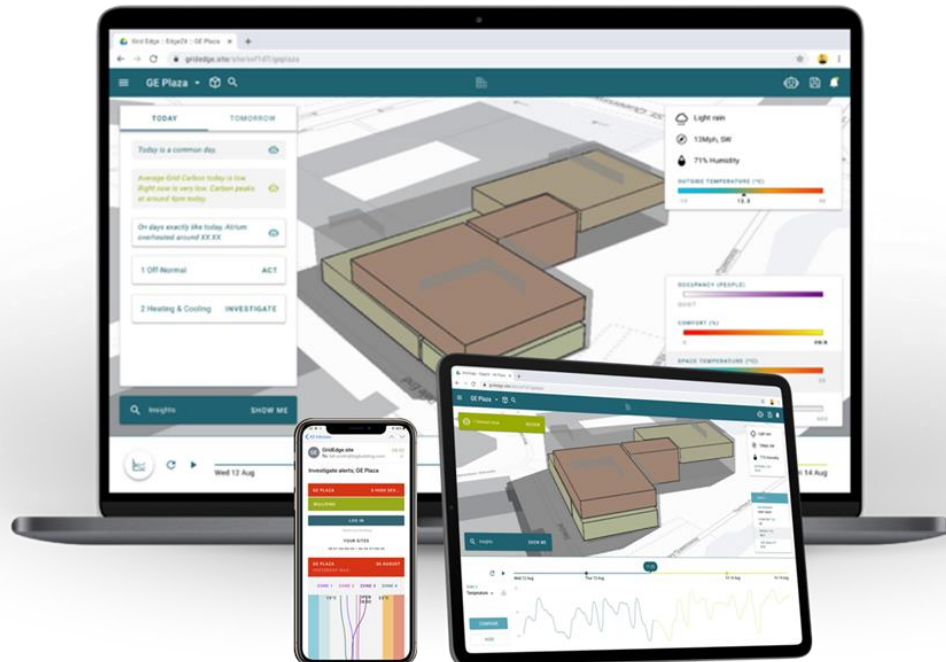
14.01.2021

PROP-TECH START-UP

Data science company founded in 2017 now 25 people
Tech Start-up of the Year – KPMG 2019

Machine learning and AI for energy management in the energy transition

Making passive consumers active customers at the edge of the grid.



Grid Edge leverages data to empower building operators to optimise their energy performance.

SaaS technology is cloud-based and hardware-light. It integrates with existing building and data systems and can be deployed across a diversity of building types – old and new.

Grid Edge technology addresses key pain points:

- ✓ Cut CO₂ emissions & reduce energy costs
- ✓ Enable demand-side flexibility
- ✓ Integrate energy and building management
- ✓ Flexibility to futureproof against energy system volatility

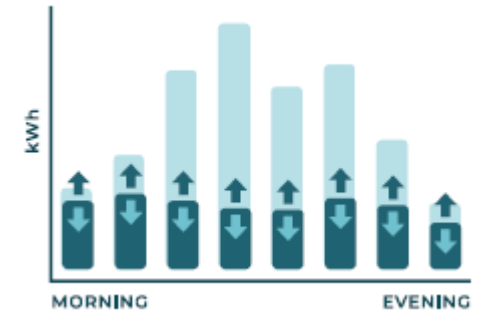
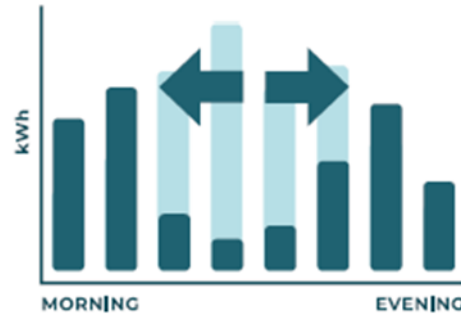
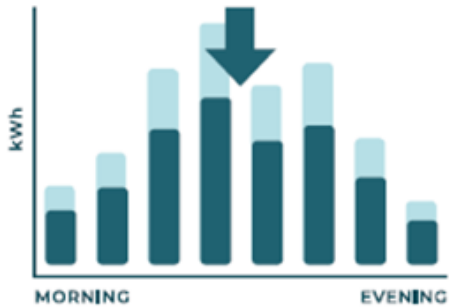
A BUILDINGS JOURNEY TO ENERGY NET ZERO

EFFICIENCY

Targets the customer's energy efficiency and building performance priorities. This is the starting point for building energy optimisation.

FLEXIBILITY

Targets the customer's flexibility, load management and inter-operability priorities. This is for advanced behind-the-meter optimisation.



START WITH AI FOR EFFICIENCY

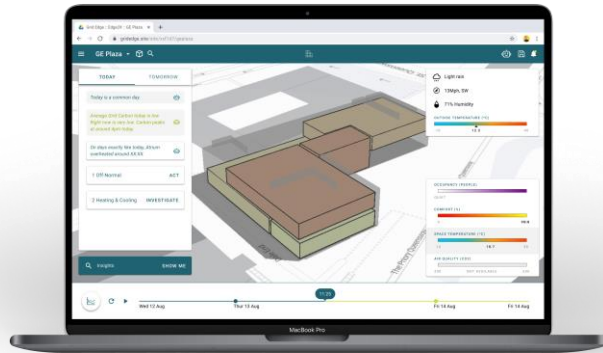
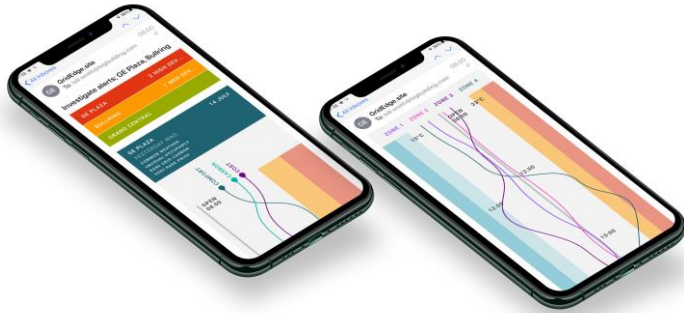
Empowering energy managers with their data

DYNAMIC COST AVOIDANCE

Harness predictive data to flexibly manage energy demand against volatility of the grid

DESTINATION NET ZERO

Become an active, empowered and responsible energy consumer



EFFICIENCY CASE STUDY

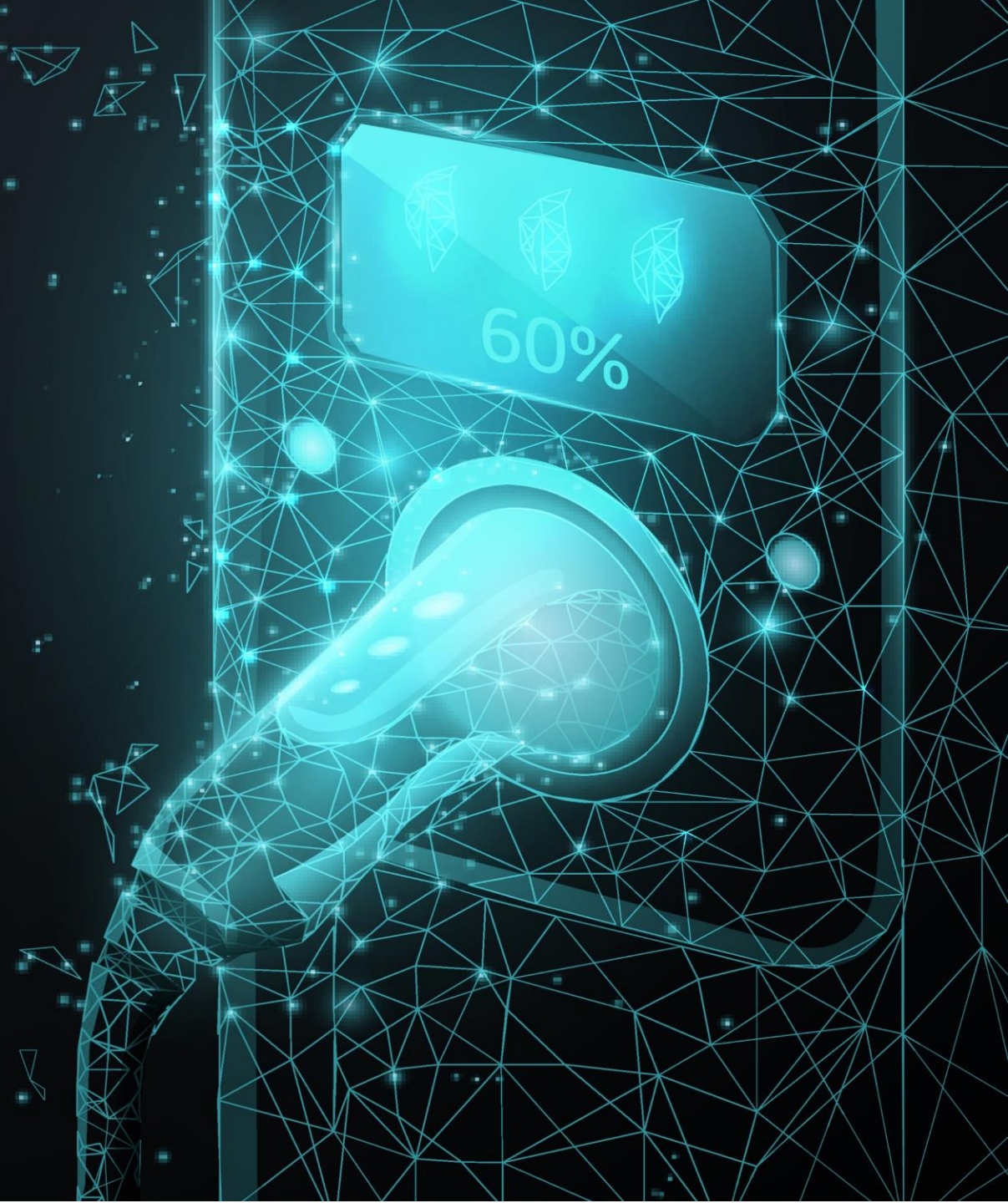
"It was a really informative and educational experience working with Grid Edge on this cutting edge energy digitalisation project. The team were very supportive and our investment paid for itself within the year."

- ✓ Focus on optimising HVAC duty against time-of-use charges and rooftop Solar PV output
- ✓ Customer using Grid Edge to improve HVAC strategy to maintain comfort while reducing duty by c.60%
- ✓ £30,000 annualised cost reduction delivered (ROI achieved within first 12 months)

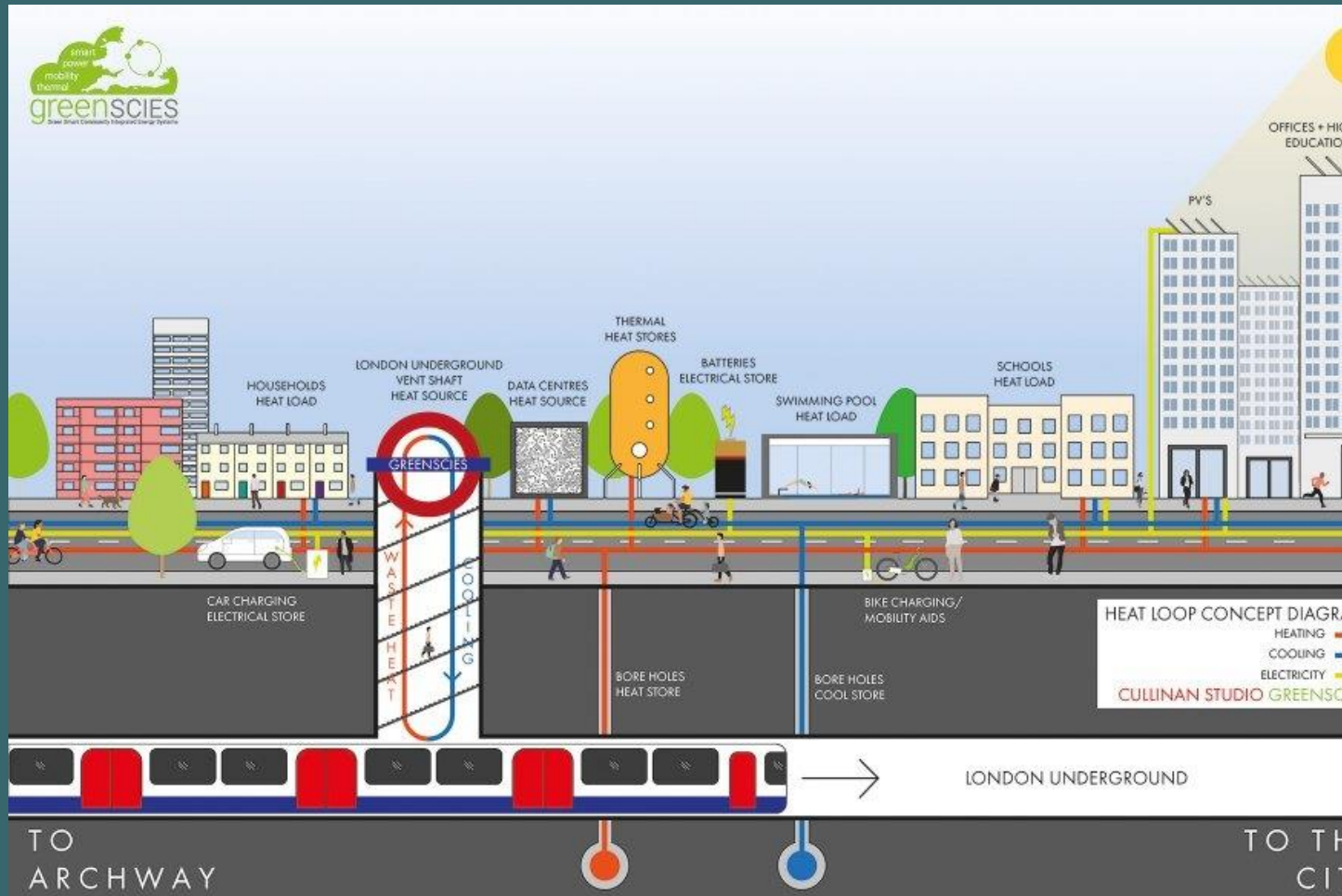
FLEXIBLE ASSETS

Optimisation against variable tariff **AND**
DNO active network constraints (ANM)

Building assets **AND** EV assets for
flexibility



FLEXIBILITY FOR COMMUNITIES



- Ambient loop heat network for Islington.
- Interoperation between:
 - Mobility, heating and cooling and PV assets
 - Customer owned assets and ESCO owned assets
- Grid Edge is the AI technology lead for GreenSCIES



GET IN TOUCH



www.gridedge.ai



Jim.scott@gridedge.co.uk