

The logo graphic for Iraasai is a stylized, symmetrical emblem composed of multiple layers of blue and purple geometric shapes, resembling a snowflake or a complex circuit board pattern. It is positioned to the left of the company name.

Iraasai

Energy Asset Orchestration Platform

AI-powered analytics for efficiency, sustainability and profitability



ABOUT US

AI native data platform navigating complex operational data focusing on **new energy assets**

Users can **control** and **monitor energy flow** between assets **centrally** and **remotely**

Actionable insights, predictive forecasts & automation to achieve greater energy efficiency, reducing costs and environmental impact while maintaining operational performance

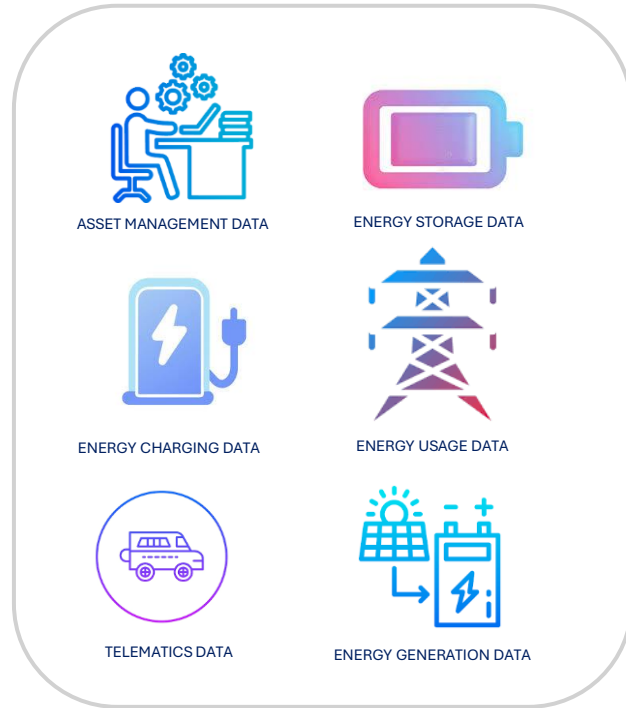
We have **partnered with Microsoft** and Kaasai is a SaaS offering in Microsoft Marketplace





Smarter assets. Greener outcomes

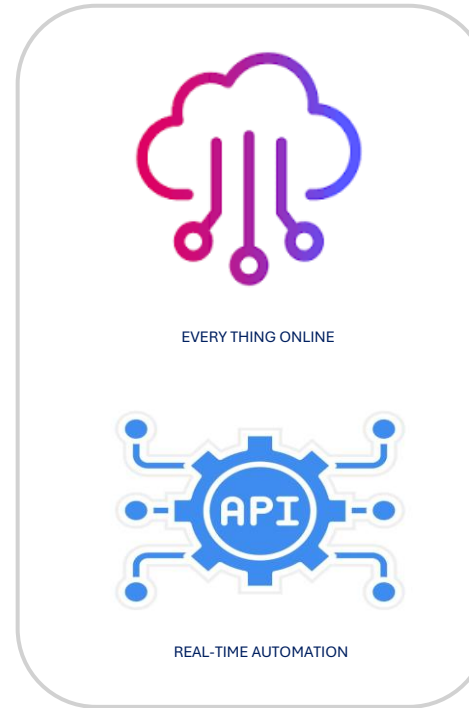
Kaasai features



Data Ingestion

Bring all your asset data into one place

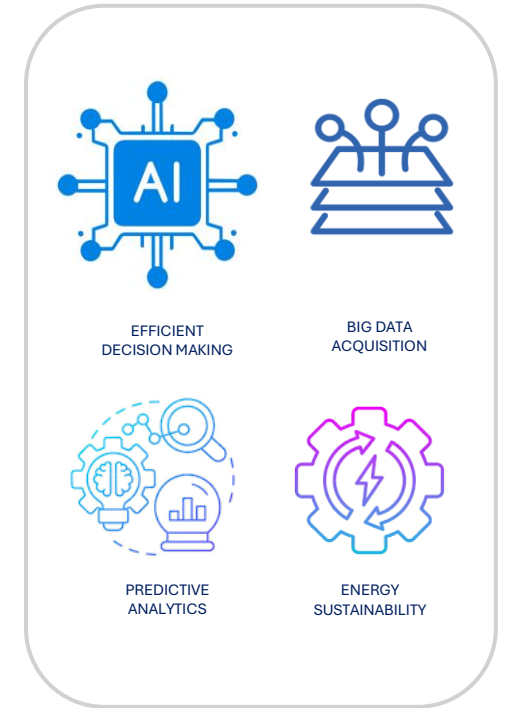
kaasai



Cloud Integration

Seamlessly connect your systems to one platform

kaasai



Smarter Control and Monitoring Asset Orchestration

Get the results you need when you need them



OUR SOLUTION

AI-powered energy optimisation

Centralised IoT & Telematics Data

→ Kaasai's AI-power ingestion engine pulls real-time asset and utilises advanced AI technology to optimise the management of energy-intensive assets and vehicle fleets effectively

Intelligent Asset Orchestration

→ The platform orchestrates resources intelligently, ensuring that energy consumption is minimised while maximising efficiency

Sustainable Energy Efficiency

→ Kaasai provides actionable insights, predictive forecasts & automation to help organisations achieve greater energy efficiency, reducing costs and environmental impact while maintaining performance

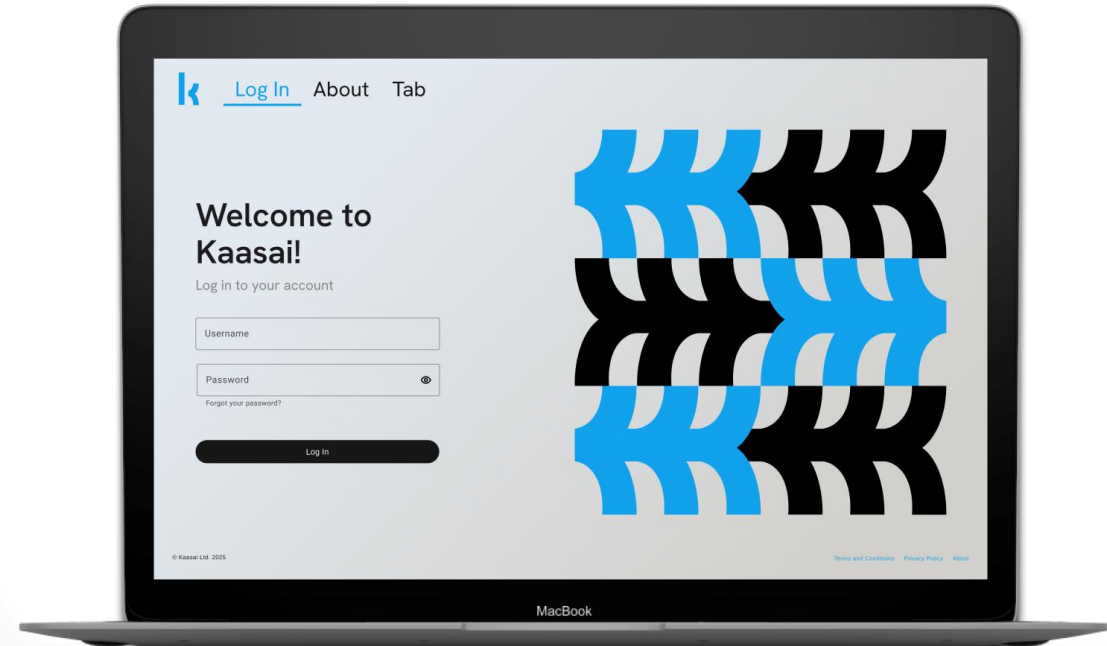




OUR PLATFORM

Integrated control in real time

- ✓ **TCO Module** – Monitor, forecast and manage asset costs centrally across multi-asset operations with real-time insights on energy consumption and operational performance
- ✓ **Compare Module** – Compare assets by cost and performance over time for smarter procurement planning and better management reporting
- ✓ **Orchestration Module** – Control the energy utilisation between your assets via a smart energy management layer and set automated optimisation schedules
- ✓ **Flexcharge Module** – Remotely schedule charge and discharge of fleets and groups of assets to ensure operational readiness most efficiently





CASE STUDY

eHGV V2X Demonstration

Client: Islington City Council

Fleet Size: 550 (we trialled 2 V2G eHGVs)

Challenge: Optimising V2G and fleet efficiency for a cost-effective, low-carbon transition

Solution: Leverage AI & V2X technology for smarter EV fleet management

Impact: Improved efficiency and planning which both reduced costs and increased revenue streams



ISLINGTON

For a more equal future



DELIVERY OVERVIEW

What the Project Delivered

- 9-month trial with real-world use of 2 V2G RCV eHGVs (210 kWh) retrofitted and enabled with V2X capabilities by Electra
- Trial conducted at Islington Councils Waste & Recycling Centre
- OEM developed and installed 1MW charging cabinet with 2 CCS charging guns (300-1000 V DC)
- Kaasai integrated end points from 15 data sources (OEMs, chargers, CSMS, grid (DNO), market DBs, fleet mgmt systems)
- Kaasai developed algorithms and modelling that optimises efficiency and increases stakeholder and operator gains
- Kaasai developed specific visualisation software and applications that provide operators and stakeholders directives on the best course of action to maximise the benefits of V2G market participation and energy transition



ISLINGTON

For a more equal future



INFRASTRUCTURE

Power Cabinet & Chargers

Power Cabinet	Project EV HC-CE1-1200-1012-10-1000
Connectors	Dual CCS (V2G capable)
Output	300–1,000 V DC, up to 300 A per gun
Peak Efficiency	≈96%
Authentication	RFID, VIN, App, or plug-and-charge

Charger	Project EV HC-TE2-300-2-1000-EE
Connectors	Dual CCS (V2G capable)
Output	300–1,000 V DC, up to 300 A per gun
Peak Efficiency	≈96%
Authentication	RFID, VIN, App, or plug-and-charge

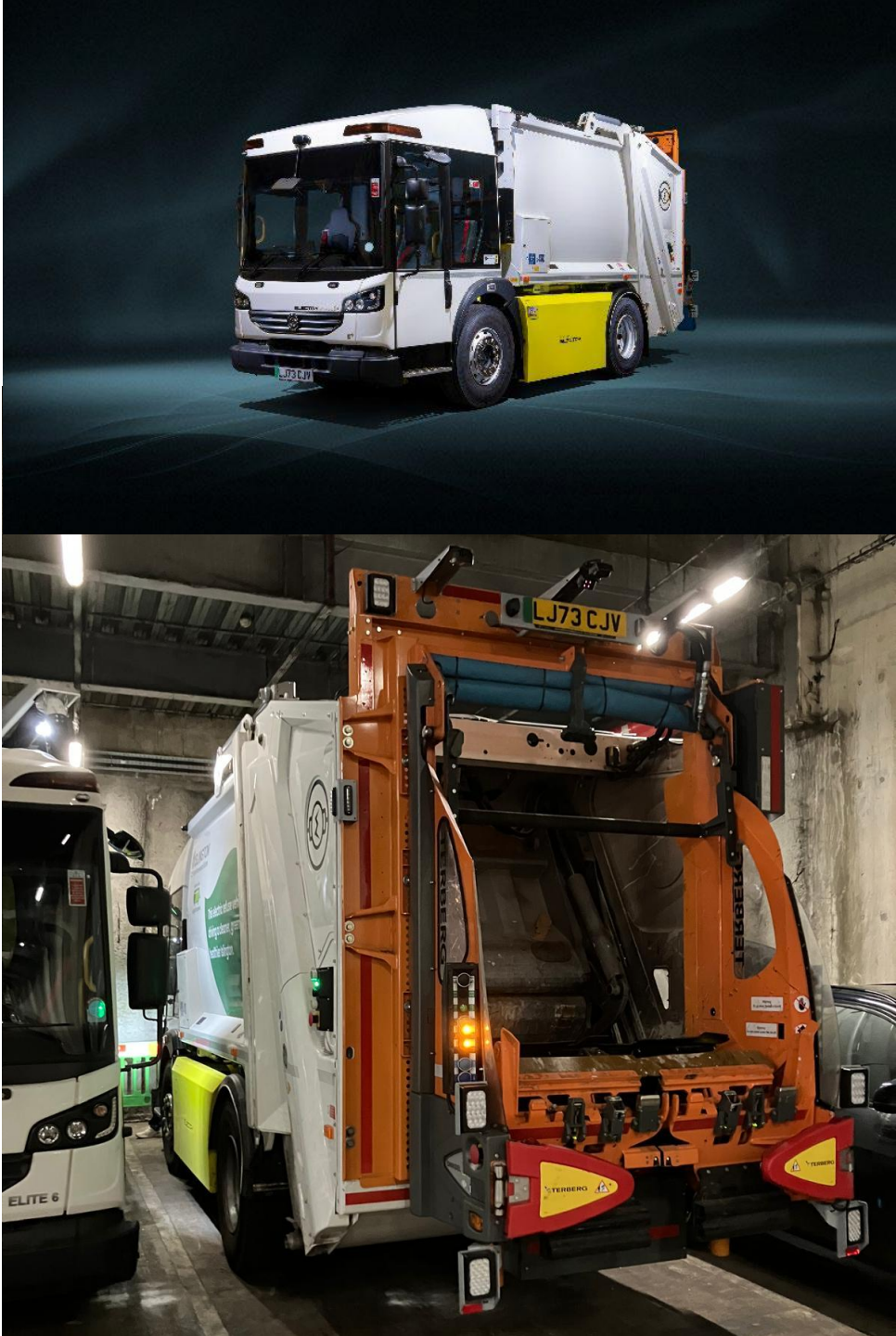




INFRASTRUCTURE

Trial Vehicles

Make & Model	Electra eCompact eHGV RCV
Chassis	4x2 (Narrow)
GVW	19,000 Kg
Battery capacity	210 kWh
Life Span	5000 cycles 80% SOH
Charging	150 kWh DC fast charge





Featuring V2G Capabilities, This Trial is an Innovative Step in the UK's Future of EV Charging & Vehicle Energy Management.





SOFTWARE

Trial Data Platform

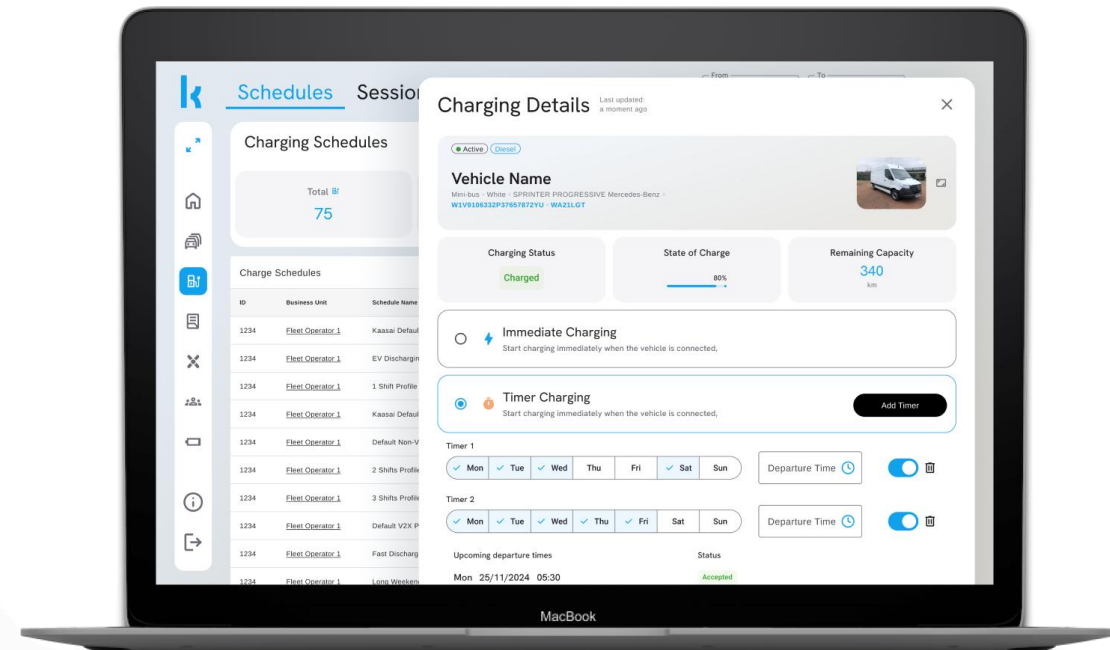
Platform	Kaasai energy asset orchestration
Data Sources	vehicles, chargers, grid, market, corporate systems
Integrations	API and Data Extract Pipelines
Architecture	Azure, AI-native Data Ingestion
Key Features	Real-Time TCO monitoring and forecasting, Remote and Central Charge/Discharge Scheduling Optimisation, Prioritisation and Control, V2X Orchestration, Compare Vehicles and Fleets



30% TCO REDUCTION

Kaasai managed eHGVs over 5 years

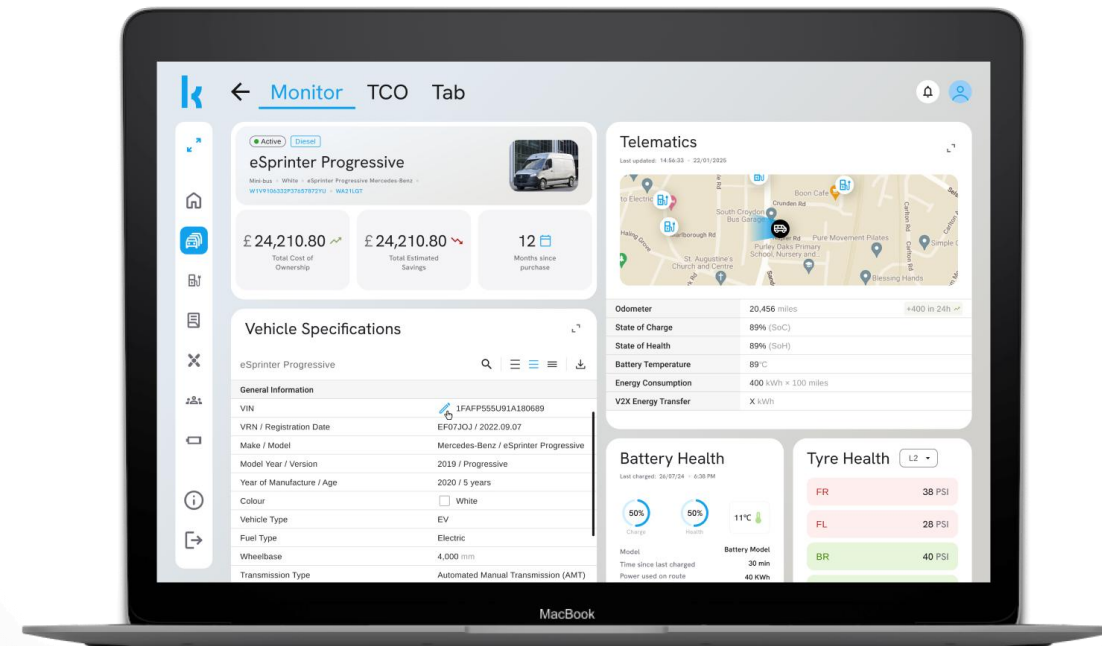
- **37% energy cost reduction** for eHGVs
- ~19,000 kWh – 28,000 kWh for one truck
- Leveraging V2G/V2X
- Leveraging grid balancing services management
- Other TCO categories include upfront vehicle cost, maintenance, operating costs, and insurance



57% TCO REDUCTION

eHGVs relative to diesel HGVs over 5 years

- **97% consumption cost reduction**
- ICE vs Electric fuel types
- Other TCO categories include upfront vehicle cost, maintenance, operating costs, and insurance





Project Results

Fleet-Level Impact with Kaasai (5-Year TCO on 135 Vehicles) – Islington Council Case Study

demonstrated outcomes

Kaasai Unlocks:

- **£19.3 million** in energy cost savings - **97% savings**
- **6,000 tonnes CO₂** emissions reduction - **84% reduction**, enabling Scope 3 carbon savings
- At least **£380,000** new revenue - *Generated from V2X, grid flexibility, and energy export markets*
- **40% reduction** in unplanned downtime - *Predictive maintenance and intelligent asset orchestration*



LEARNINGS

The project found that

- OEM MCS eHGVs are not ready – prototypes only
- Upcyclers do not have engineering capability for MCS
- Allow 6-12 months for energy export approvals (G99) V2G
- CSMS V2X readiness is overstated
- Check minimum load requirements to leverage flexible energy market
- Kaasai optimises energy transition, leading to significant reductions in operational costs, often by circa 60%
- Kaasai assists companies in meeting their carbon emission targets while maintaining operational efficiency, often by circa 85%





GET IN TOUCH

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