Greenet

The network of Horizon Europe Cluster 5 National Contact Point.





FEDFLEX: federated edge AI for trusted, forecastable distributed flexibility

Project idea for topic HORIZON-CL5-2027-02-D3-24

Alta Vision Ltd, United Kingdom and Sri Lanka SME

Oversight

The GREENET project has received funding from the EU Horizon Europe programme under Grant Agreement No 101069604

Greenet

Your Energy. Under Control.

Oversight is an energy intelligence platform that brings clarity and control to distributed energy. It monitors, forecasts and controls solar, storage, EVs and flexible loads across a whole network, whatever brand of equipment is installed.

Oversight currently oversees

50 MW+

energy assets.



Oversight

Monitor

Every asset, every brand, on one screen, no more juggling vendor portals.

Forecast

Know tomorrow's peaks and dips before they hit, and plan around them.

Control

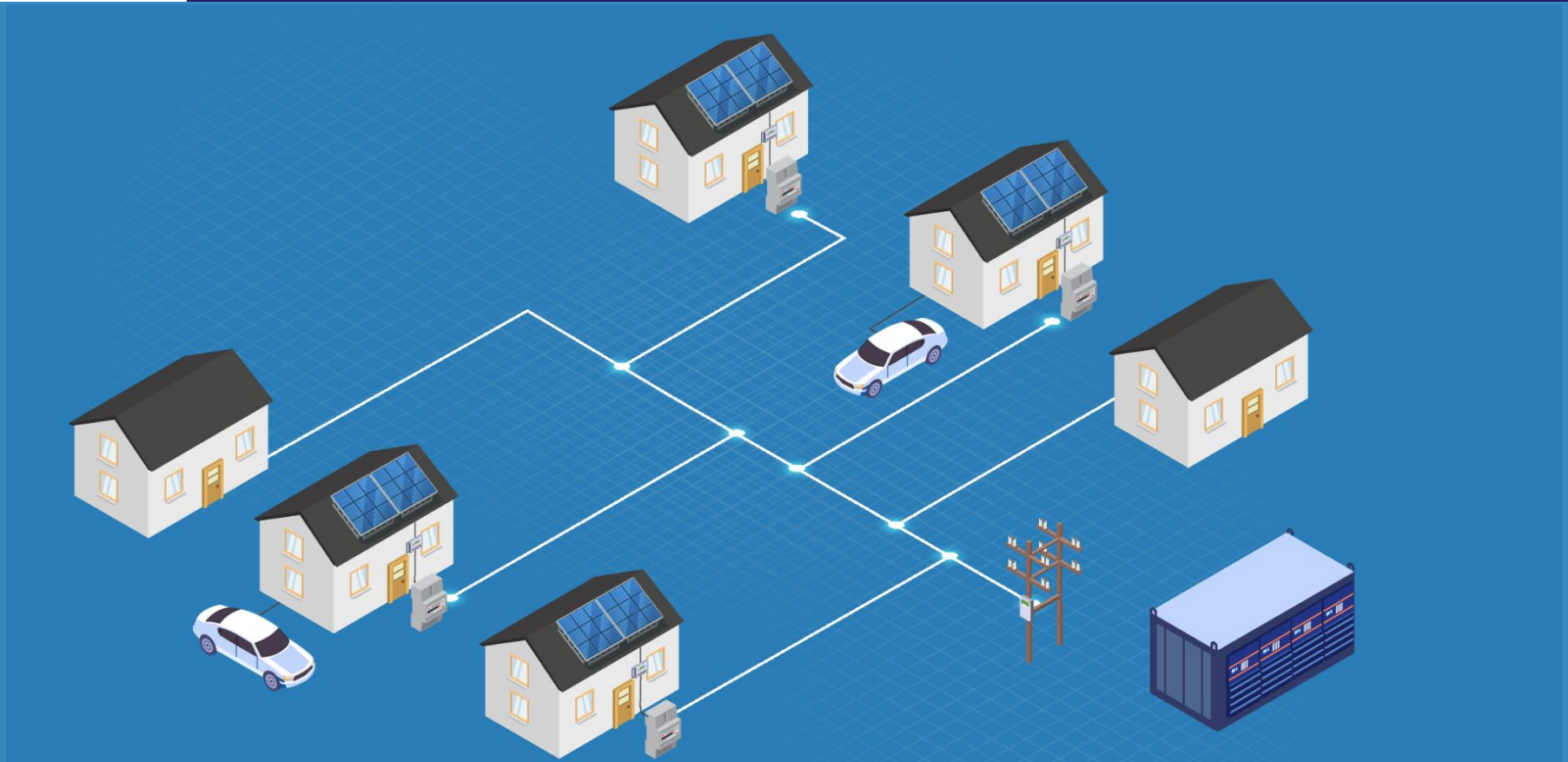
Switch, dispatch, and tune, inverters, storage, and loads from anywhere.

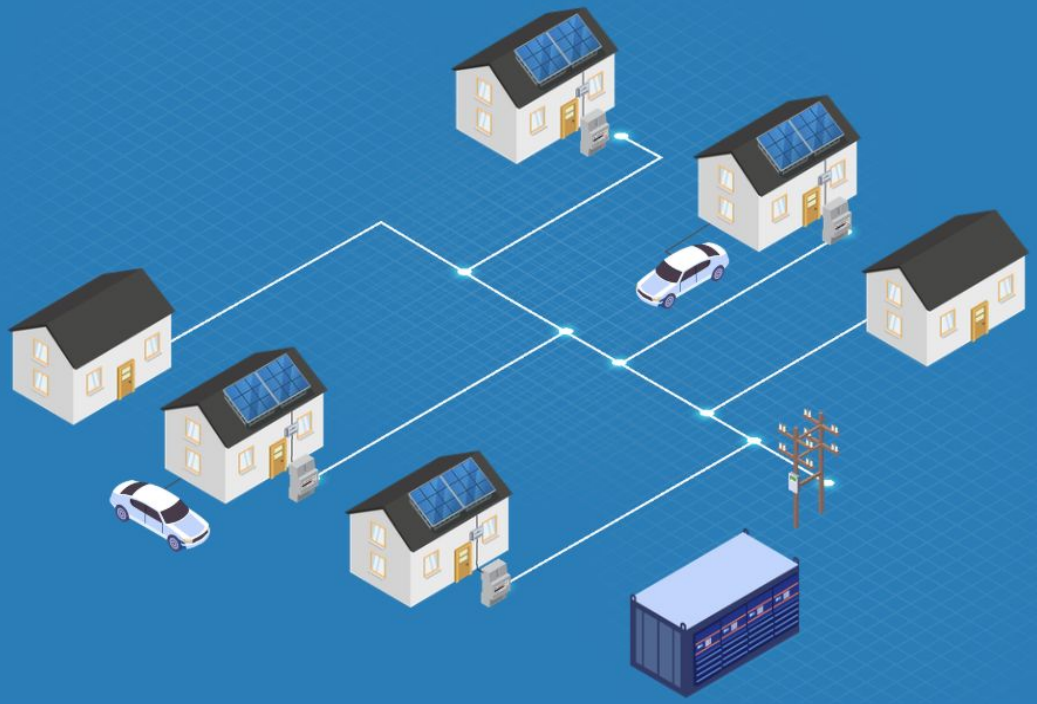
Optimise

Cut peak charges, shift load to cheap hours, and earn from flexibility.

Greenet

Case Study 1: Distribution Network Flexibility





Non-wires alternative to network reinforcement. Defers transformer and feeder upgrades, and relocates as constraints move.

Resilience and backup supply during outages.

Peak shaving and energy time shift. Store surplus generation, discharge into the demand peak.

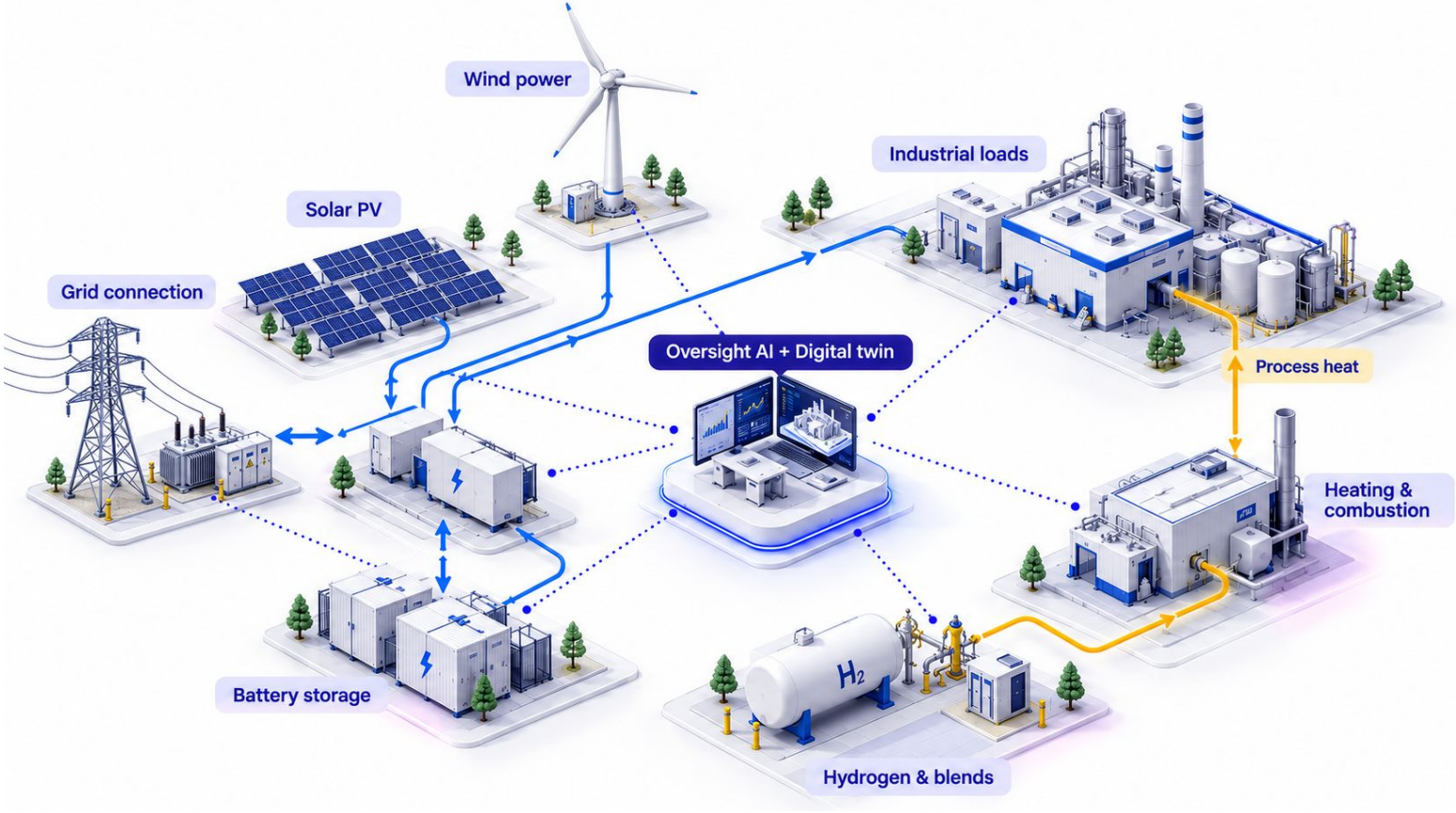
Demand charge management for commercial and industrial connections.

Voltage regulation and power quality.

Frequency response and system stability. Fast frequency response and grid-forming capability, dispatched as one aggregated fleet.

Ancillary services and operating reserve. Firm, dispatchable capacity made available to the system operator.

Case Study 2: Micro-Grid Optimization



The group behind Oversight

We Deploy It. We Store It. We Make It Smart.

Deploy

Alta Vision designs and installs solar PV, battery storage, EV charging and mini-grids in the UK and Sri Lanka.

ALTA VISION

Store

Our manufacturing arm, AmpereArc, builds battery packs, storage systems and power electronics.

AmpereArc

Make it smart

Our software platform, Oversight, turns mixed-vendor energy assets into flexibility the grid can call on.

Oversight

2013
One engineering group, in-house since 2013

2,500+
Renewable installations across the UK and Sri Lanka

50 MW+
Energy under monitoring on Oversight

500+
Battery packs built and installed

75+
Technical staff across our energy businesses

Accredited in both markets: MCS in the UK, ISO 9001 and SLSEA registration in Sri Lanka.









The group behind Oversight

Team and Track Record

PhDs in leadership

Our team brings together electrical engineering and computer science, from research and design through to installation.



Subodha Charles, PhD

Co-Founder & CEO
(Strategy, Partnerships, Business Development)

B.Sc. in Electronic & Telecom. Eng. from the University of Moratuwa, Sri Lanka.
Ph.D. (embedded systems security) from the University of Florida, USA.



Rachitha Muthukumarana, PhD

Co-Founder & COO
(Operations, Product)

B.Sc. in Mechanical Engineering from the University of Moratuwa, Sri Lanka.
Ph.D. (civil and environmental engineering) from Clarkson University, NY, USA.

Featured Clients

LANKA ELECTRICITY COMPANY (PVT) LTD

A Sri Lankan national utility rolling out Oversight as a national energy resources management platform

ADB · Rajarata University of Sri Lanka

Asian Development Bank-funded mini-grid at Rajarata University of Sri Lanka, run on Oversight.

chloride exide

Battery and solar company across East Africa, using Oversight.

Other Select Clients, Partners, and Funders

Innovate UK · Scottish Government Riaghaltas na h-Alba · ISA International Solar Alliance · USAID From the American People · National Science Foundation · WSO2 · Robert Gordon University Aberdeen · University of Sri Jayewardenepura · University of Surrey · La Trobe University · Sri Lanka Sustainable Energy Authority

UK Certifications and Memberships

MCS Certified · NAPIT · RECC · TrustMark · GivEnergy Approved Installer · Tesla Powerwall Certified Installer · octopus Trusted Partner · iwa

£3M+ of competitively awarded projects — **8 grants since 2022**

Innovate UK has backed us four times, alongside ADB, USAID and the Scottish Government.

Founded in Sri Lanka in 2013, we have spent almost 14 years designing, installing and maintaining energy systems, with more than 2,500 installations. We brought that experience to the UK in 2022 and are now an MCS-certified installer, backed by a proven engineering base.



Winner of
"Control, Automation, and Cyber-Physical Systems"
Track











Let's Build the Future of Energy Together

Subodha Charles

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Appendix

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What Alta Vision brings

Funded non-EU demonstration site

Sri Lanka is automatically eligible for Horizon Europe funding (**EC list**), so we bring a demonstration site on a live distribution network outside the EU, alongside our UK sites.

Oversight

Our energy intelligence platform: 50 MW+ of PV monitored, with remote read and write control across mixed-vendor sites

Data

Consented operational data from a live distribution utility, subject to a data agreement for EU research use

In-house installations & storage

Battery packs assembled in-house, so BMS limits and degradation are known, not inferred. Data from 2500+ solar PV installations

Why us, not a software vendor: one company installs the assets, assembles the storage and runs the control layer, so a demonstration does not need three suppliers and the gaps between them.

TRL 8	Monitoring, remote control, export limiting, household solar forecasting: deployed and validated
TRL 6	Feeder-level aggregate forecasting: in progress under funded projects
TRL 5	Degradation-aware dispatch and aggregated portfolio flexibility: pilot

Partners sought

Current consortium: **none yet**

Partner profiles sought

1. **Coordinator** with Horizon Europe experience
2. **2 or 3 DSOs** as operational validation sites
3. **Research organisation** strong in AI for energy
4. **Aggregator or supplier** holding market access
5. **Storage technology partner**

Relationships we can bring to the table

Nothing committed for this project.

- A distribution utility in South Asia, our current pilot partner
- UK universities with energy systems research groups
- A UK university research group working with us on end-of-life battery traceability
- UK City council and an Island council that can bring sites for deployment
- A multilateral development bank that funded one of our mini-grid deployments

Contact

Dr Subodha Charles

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altavision.co.uk

Book a meeting with us

Email **scharles@altavision.co.uk** to arrange a meeting at the brokerage event or afterwards.

Organisation
Alta Vision Ltd, SME, registered in England, Company No. 14111140

Country of operation
United Kingdom, with demonstration sites in the UK and Sri Lanka

Department
Energy Intelligence (Oversight)

Expertise
AI forecasting and control of distributed solar, battery storage and EV charging; in-house battery assembly; accredited installation

Role sought
Technology provider, beneath partners who hold market access

More detail
Topic HORIZON-CL5-2027-02-D3-24 on the EU portal
Our monitoring platform and funded R&D