



ALTA VISION CORPORATE PROFILE

WE COMBINE INFRASTRUCTURE EXPERTISE, ADVANCED
MANUFACTURING, AND INTELLIGENT DIGITAL TECHNOLOGIES
TO DELIVER SMARTER, CLEANER ENERGY SOLUTIONS.

OUR AREAS OF EXPERTISE

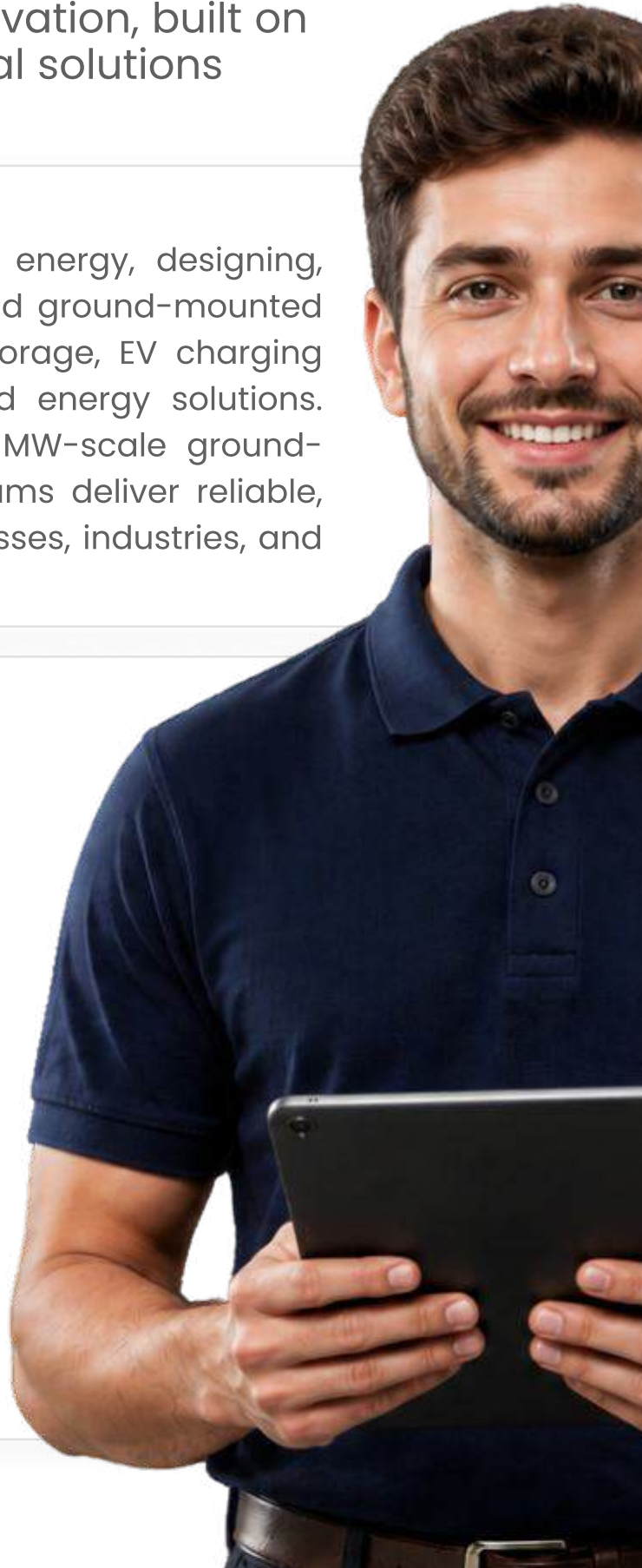
Where engineering meets innovation, built on over a decade of delivering real solutions internationally.

RENEWABLE ENERGY

We are a trusted partner in clean energy, designing, building, and maintaining rooftop and ground-mounted solar PV systems, battery energy storage, EV charging infrastructure, mini-grids, and hybrid energy solutions. From small rooftop installations to MW-scale ground-mounted farms, our engineering teams deliver reliable, sustainable power for homes, businesses, industries, and government institutions.

DIGITAL SOLUTIONS

We develop intelligent software systems that make energy smarter. Our in-house teams build AI-powered grid and demand management platforms, EV and battery management systems, computer vision applications, SCADA and IoT solutions, embedded controllers, and enterprise software, many developed through internationally funded research partnerships with leading UK universities. We don't just install energy systems; we make them think.



ALTA VISION SOFTWARE DEVELOPMENT EXPERTISE

Web and Mobile

Application Design & Development

We specialize in creating intuitive and robust web and mobile applications tailored to meet the unique needs of our clients across various industries.

Machine Learning

Our team leverages advanced machine learning algorithms to develop intelligent systems that can predict, analyze, and optimize performance for diverse applications.

Embedded System Design & Development

We excel in designing and developing embedded systems that integrate seamlessly with hardware to provide innovative and efficient solutions for complex problems.

Digital Marketing

Our digital marketing experts craft strategic campaigns that enhance online presence, engage target audiences, and drive measurable business growth.

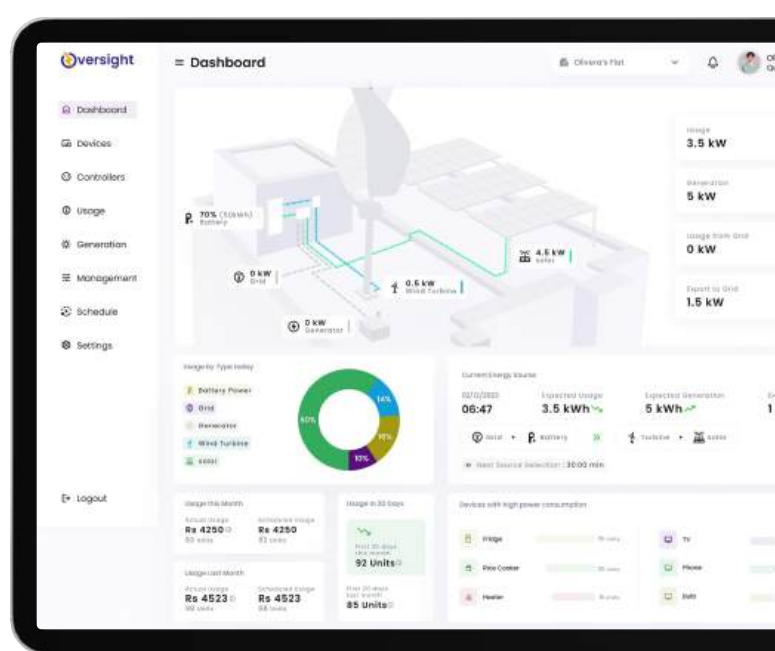
CLIENTS



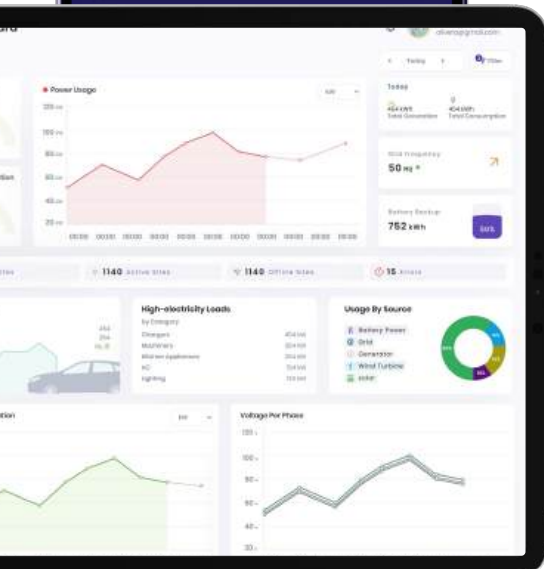
OVERSIGHT AR-MINI

AI-managed mini-grids that deliver reliable 24/7 power to off-grid communities

A self-managing energy system that combines hybrid energy generating infrastructure (solar panels, wind turbines, batteries), and a backup generator into a single mini-grid. AI continuously forecasts how much energy will be generated and consumed in the hours ahead, then automatically decides what to charge, discharge, or run keeping the lights on around the clock with minimal fuel use.



- AI forecasts solar and wind generation hour by hour
- Automatically schedules batteries and backup generator for optimal use
- Cuts diesel consumption
- Boosts renewable energy use
- Powers homes, businesses, and community institutions reliably, day and night



OVERSIGHT DERMS

A grid management platform that gives utilities full visibility and control over thousands of distributed energy assets

A cloud platform that connects to every solar system, EV charger, and battery on a utility's network using AI to predict their behaviour and automatically sending control signals to keep the grid stable.

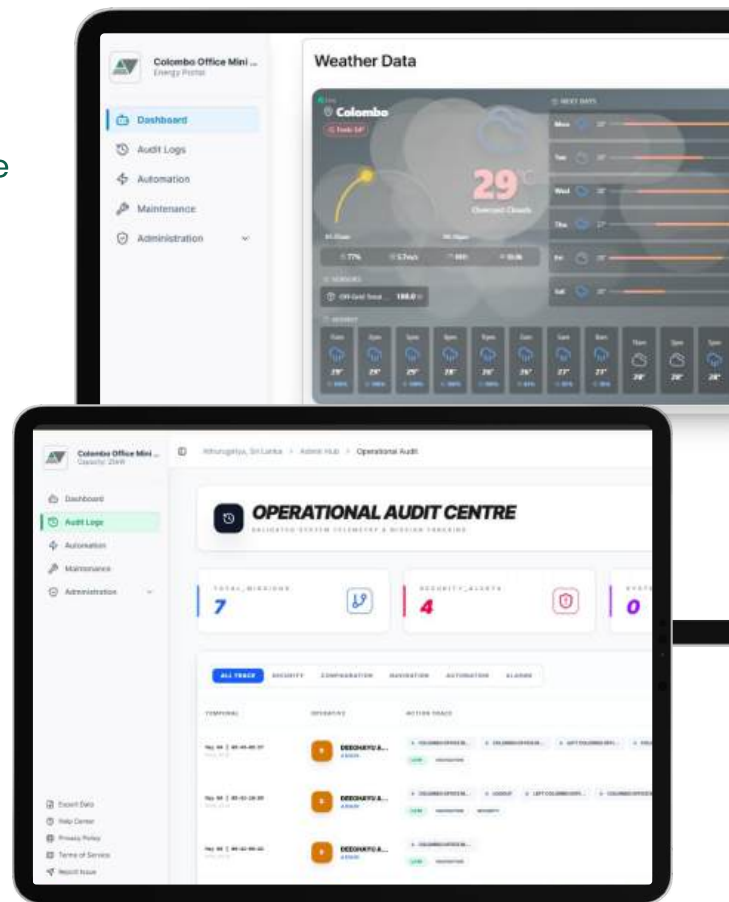
- Live monitoring of every distributed solar, battery, and EV asset on the grid
- AI forecasts generation and demand at the feeder and substation level, trained on local weather conditions
- GIS map showing where every connected asset is located
- Automatic control commands sent to assets to prevent grid instability
- Real-time Grid Risk Index that detects voltage fluctuations and ramp rates before they cause outages
- Built locally; replaces expensive imported grid software

OVERSIGHT SCADA PLATFORM

A unified control room dashboard for solar, battery, wind, and backup generation accessible from anywhere

A cloud-hosted SCADA platform that connects to every piece of equipment in an energy installation through integrations and IoT sensors, streams the data to a single dashboard, and lets operators control everything remotely. No more switching between vendor apps or driving to site.

-  Single dashboard showing live status of energy assets.
-  Remote control of assets
-  Automatic alarms based on thresholds
-  Smart dispatch logic that decides what to charge, discharge, or run
-  Cross-site visibility across multiple installations

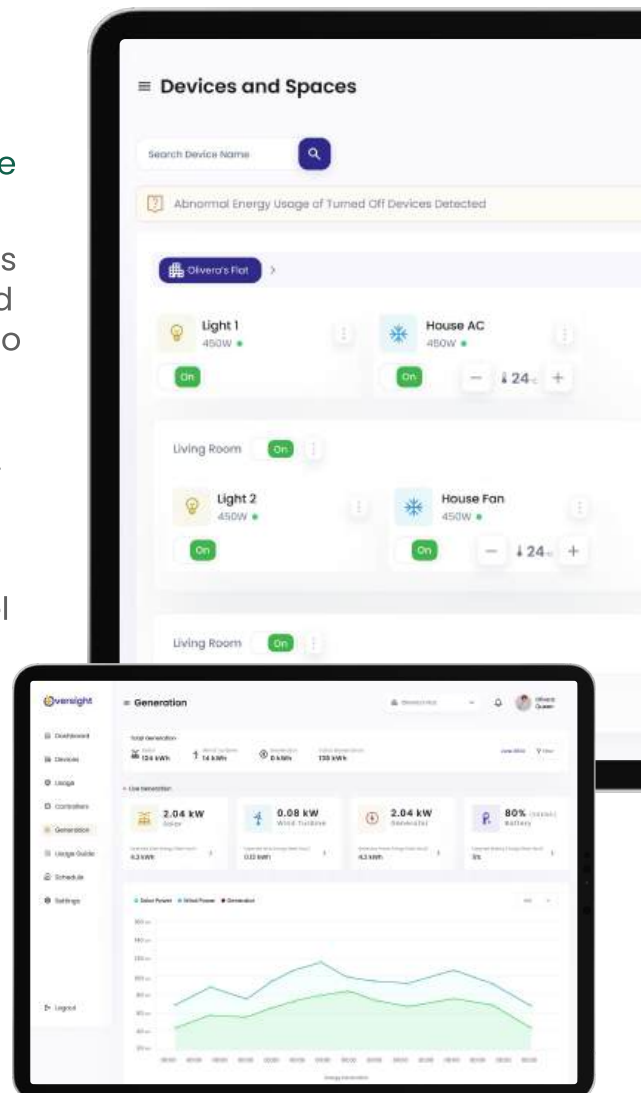


OVERSIGHT ADMS

An AI demand-management platform that helps utilities and consumers cut costs by using power more intelligently

A platform that pulls real-time data from smart meters and smart controllers, uses AI to predict when demand will spike, and works with both utilities and end-users to shift consumption away from peak periods. Lower bills for consumers, less stress on the grid, and the data utilities need to plan a smarter, lower-carbon network.

-  Smart meter and smart controller integration for live consumption tracking
-  AI demand forecasting at household and grid level
-  Automated load shifting away from peak hours
-  Personalised consumption insights for end-users
-  Utility-grade data for grid planning and tariff design



OVERSIGHT AR-MINI FUSION

An AI and digital twin platform that decarbonises industrial process heating

A smart energy system for factories that combines a renewable mini-grid with a live digital twin of the entire heating operation. AI predicts energy supply and demand, schedules non-urgent loads to avoid expensive battery storage, and optimises both electric and fuel-based heating in a unified framework.

-  Live digital twin mirrors the factory's entire energy and heating system
-  AI forecasts energy generation and demand, then schedules loads accordingly
-  Optimises both electric heating and fuel-based heating in one platform
-  Blockchain-backed records for carbon credit and compliance reporting
-  Edge computing keeps the system running in low-connectivity sites
-  Modular design adapts to different industrial applications



OVERSIGHT DIGITAL NAVIGATOR TOOL

A single-window digital platform that automates the entire solar project approval process

A web platform that replaces the fragmented, paper-based approval process for solar projects in Sri Lanka with a fully digital workflow. Developers submit documents once, the system routes them automatically across regulators, and a live grid capacity map shows where new projects can connect eliminating months of back-and-forth.

-  A categorization engine that maps each project to the right approval pathway
-  Automated compliance checklist for every project type
-  Real-time application status tracking across all regulators
-  Automated document submission and inter-agency data sharing
-  Live Grid Capacity Map integrated with utility data
-  Verified directory of registered solar service providers

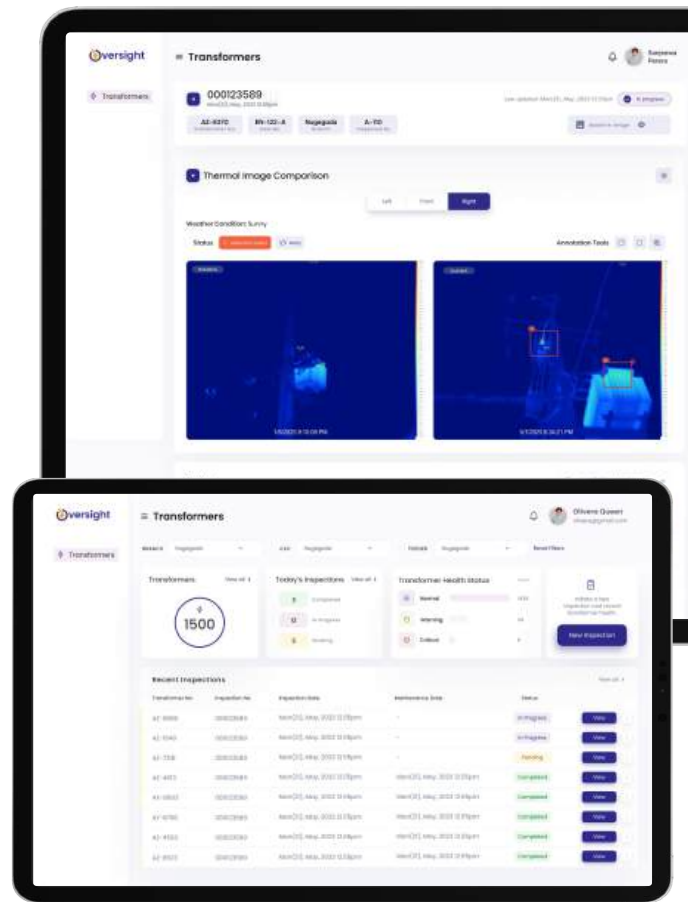


OVERSIGHT TRANSFORMER MAINTENANCE SYSTEM

A computer vision platform that automatically detects transformer faults from thermal images

A digital workflow that ingests thermal images captured during transformer inspections, links each one to its specific transformer asset, and uses AI image analysis to automatically flag hotspots and anomalies that indicate developing faults bringing structure, traceability, and predictive insight to maintenance practices.

- AI analyses thermal images and flags potential faults automatically
- Every image linked to a specific transformer and inspection cycle
- Side-by-side comparison of thermal images over time to spot deterioration
- Engineer review and annotation tools for confirming findings
- Centralised inspection records replace scattered files and reports
- Works alongside existing inspection routines

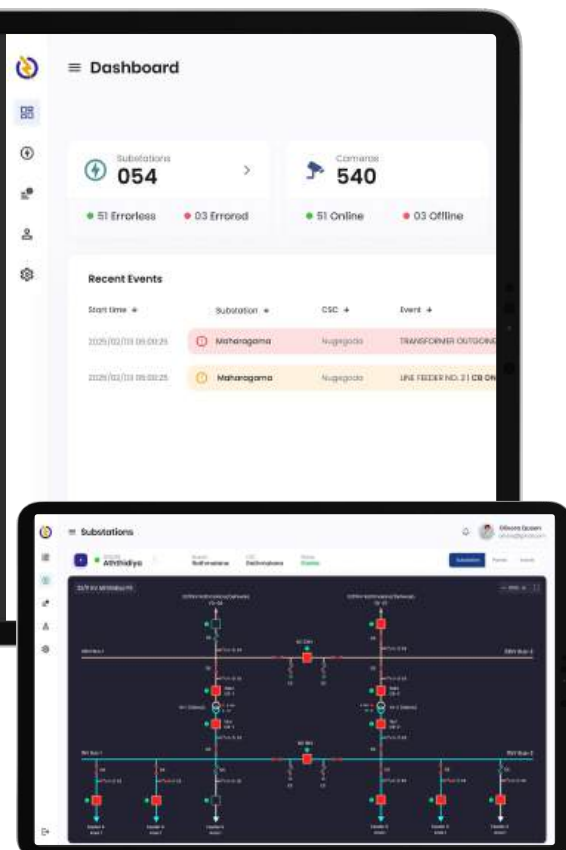


OVERSIGHT PRIMARY SUBSTATION REAL-TIME MONITORING SYSTEM

A computer vision platform that monitors substation status by reading indicator lights from CCTV feeds

A monitoring system that uses AI to watch live CCTV feeds of substation control panels and automatically detect the on/off state of indicator lights, switches, and breaker positions delivering real-time visibility without modifying or replacing existing switchgear.

- AI reads indicator lights, switches, and breakers directly from CCTV video
- Connects to existing CCTV cameras via standard streaming protocols
- Multi-substation, multi-camera management from a single platform
- Real-time dashboard with live status across all sites
- Structured event logs and historical trends for fault analysis
- Configurable alerts for critical events like SF6 gas faults
- A fraction of the cost of a full SCADA installation

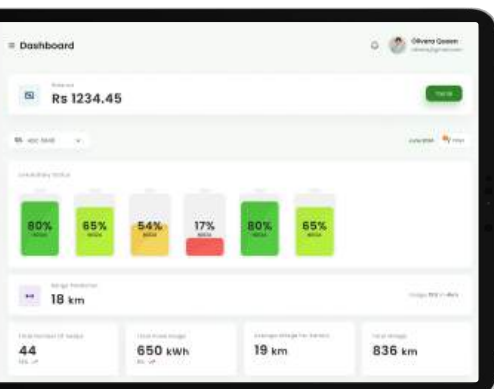
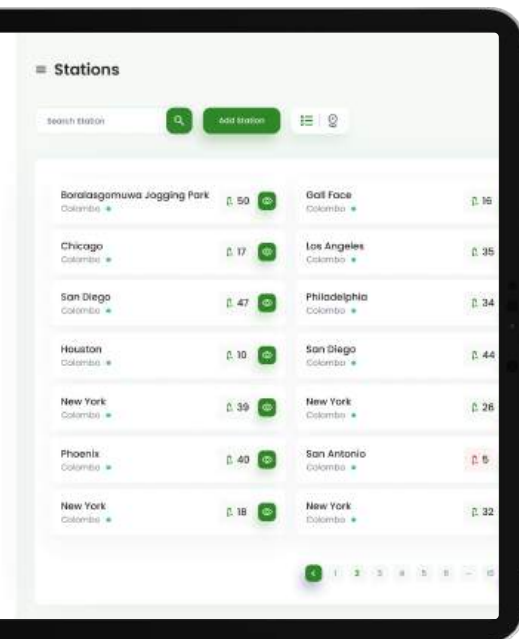
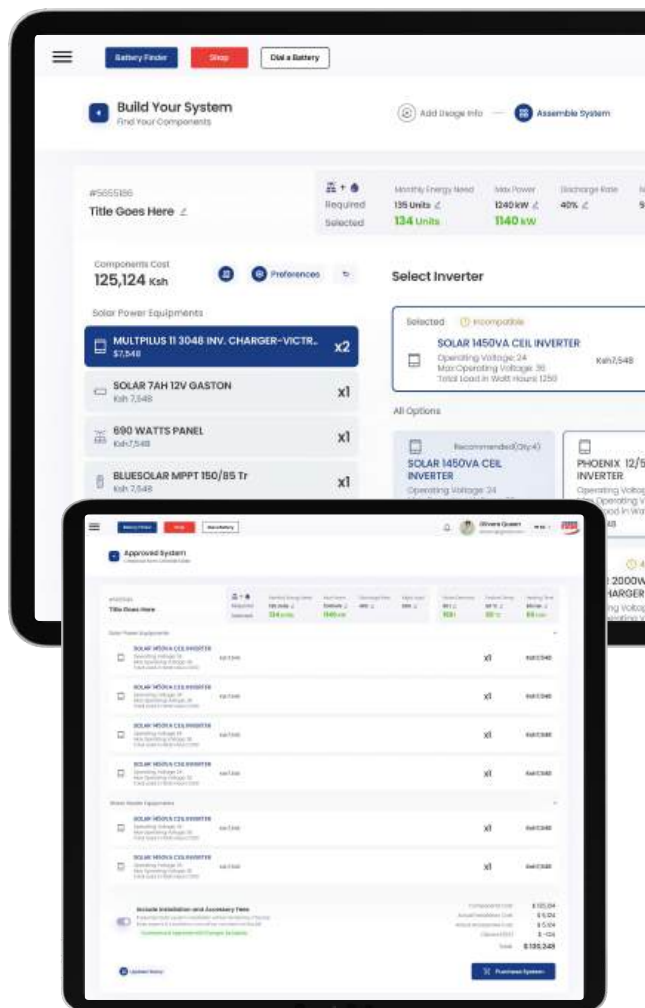


OVERSIGHT SOLARSIM

A remote system sizing tool that lets solar installers generate accurate proposals from consumption data alone

A pre-sales tool that analyses a customer's energy consumption data and automatically recommends the right solar, battery, or hybrid system configuration eliminating the need for an early-stage site visit and dramatically accelerating quote turnaround.

- Generates system recommendations directly from consumption data
- Supports solar, battery, on-grid, off-grid, and hybrid configurations
- Rule-based engine ensures recommendations meet engineering standards
- Built-in validation workflow before finalising proposals
- Cuts pre-sales time from weeks to minutes
- Designed as a white-label tool for solar installers in any market



REACT

An end-to-end electric tuk-tuk conversion solution powered by a solar-charged battery swap network

A complete clean transport ecosystem for Sri Lanka's tuk-tuk fleet combining electric powertrains that retrofit into existing vehicles, swappable batteries managed by intelligent battery management systems, and a "Swap and Go" network of solar-charged battery stations that lets drivers exchange a depleted battery for a charged one in minutes.

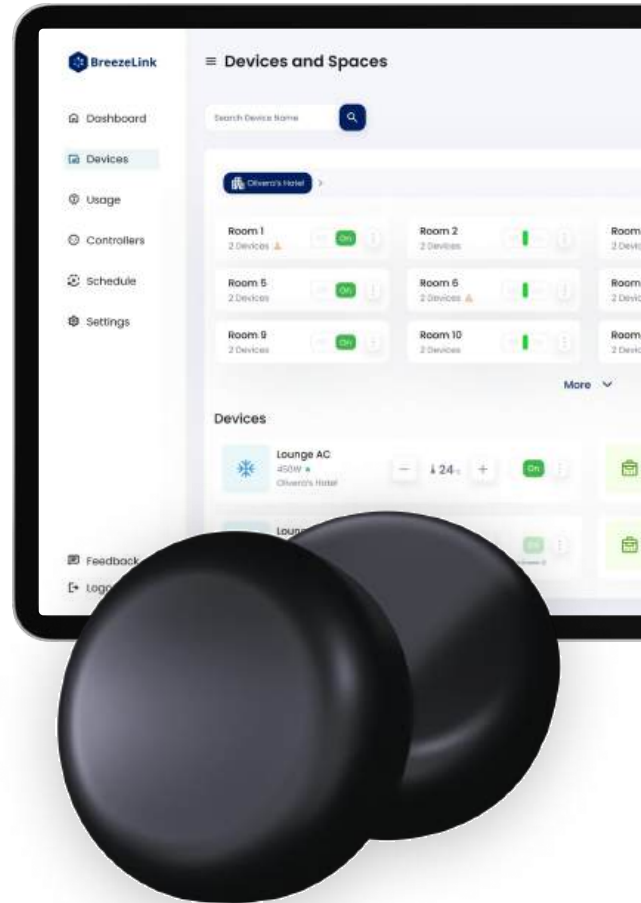
- Electric powertrain retrofits any existing petrol tuk-tuk
- Swappable batteries with smart battery management built in
- Solar-charged battery swap stations across local garages
- Live data acquisition from every vehicle and station for fleet-wide insight
- Battery-as-a-Service business model - drivers pay for energy, not batteries

BREEZELINK

A Wi-Fi-connected smart controller that turns any air conditioner into a phone-controlled, schedule-aware energy saver

A small smart device that mounts near any AC unit and connects to the internet over Wi-Fi, letting users control their AC from a mobile app, set schedules, and automate when and how the AC operates, cutting electricity waste and bills without replacing the AC itself.

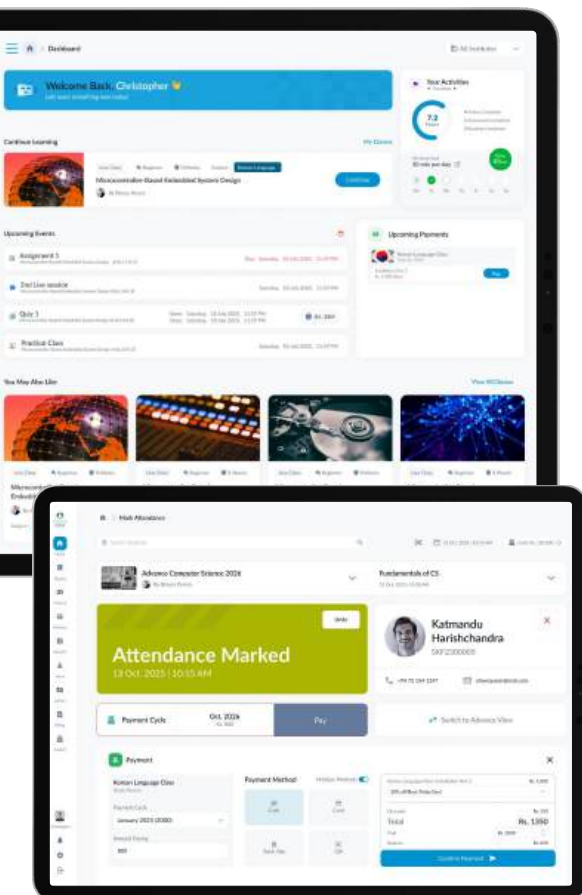
-  Wi-Fi-connected hardware that retrofits to any existing AC
-  Mobile app control from anywhere
-  Custom schedules so AC runs only when needed
-  Automation rules for occupancy and time of day
-  Cuts electricity waste from AC units left running unnecessarily
-  Suitable for homes, offices, and hotels



LEARNOVA

A complete learning management and institute operations platform from secure online courses to QR-enabled attendance

An integrated system that combines a full-featured Learning Management System with on-the-ground institute operations. Students access secure video lessons, take online exams, and track their progress online while staff manage physical classes through QR code scans that instantly confirm enrolment, payment status, and attendance eligibility at the cashier counter.



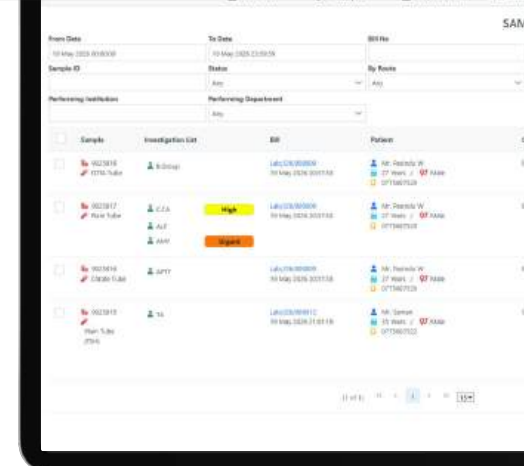
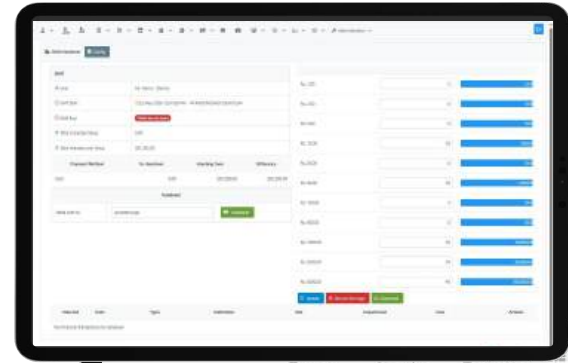
-  Secure video lesson delivery with playback restrictions to prevent unauthorised sharing
-  Online exams and assessments with automated grading
-  Course content management with structured learning pathways
-  Student progress tracking and performance analytics
-  RFID and QR code class cards uniquely linked to each student
-  Multi-counter and multi-branch cashier management with audit trails

CARECODE HMIS

A complete hospital management and clinical operations platform from paperless patient records to real-time financial control

An integrated system that combines a full-featured clinical management suite with day-to-day hospital operations. Patients move seamlessly from registration to discharge through digital workflows while staff manage labs, pharmacy, and billing through a unified platform that instantly confirms test orders, medication dispensing, and payment status across every department.

-  Full patient journey management across all clinical touchpoints
-  Laboratory barcode tracking with analyzer integration and automated result delivery via SMS or email
-  Pharmacy dispensing with drug interaction alerts and expiry-first stock control
-  Real-time auto-billing on every test, scan, and medication ordered
-  Multi-counter cashier management with shift handovers and audit trails
-  Corporate and insurance billing with automated doctor payment distributions



SELECTED RENEWABLE ENERGY PROJECTS





**13+
YEARS**

OF ENGINEERING
EXCELLENCE



DEDICATED

AFTER-SALES,
MAINTENANCE, AND R&D
TEAMS



INDUSTRY- LEADING

CUSTOMER
SATISFACTION





ACCREDITATIONS, PARTNERS & FUNDERS



USAID
FROM THE AMERICAN PEOPLE



**Innovate
UK**





AmpereArc is a renewable technology company focused on the design, assembly, and manufacturing of advanced energy storage systems, power electronics, and industrial energy devices. The company serves residential, commercial, industrial, and utility scale energy markets with in-house built solutions that meet the demands of a rapidly evolving energy landscape.



www.amperearc.com



OUR STRENGTHS



CURATED, BEST-IN-CLASS EQUIPMENT

We don't sell what's available. We install what performs globally proven inverters, modules, and storage systems chosen for reliability across decades, not seasons.



FULL-STACK IN-HOUSE ENGINEERING

One team, end to end. Civil, electrical, embedded, software, AI, and QA all delivered in-house, combining UK regulatory rigour with deep international engineering capacity.



END-TO-END AFTER-SALES AND MONITORING

Every system we install is supported for the long term by in-house after-sales, troubleshooting, and R&D teams backed by remote monitoring that flags faults and performance shortfalls in real time. Reliable performance, without you having to intervene.



PROVEN TRACK RECORD AT SCALE

13+ years. 2,500+ installations. Rooftop to utility scale, across the UK and Sri Lanka with industry-leading customer satisfaction.



AWARD-WINNING R&D AND INTERNATIONAL RESEARCH PARTNERSHIPS

Backed by the world's leading clean energy and innovation funders, the Asian Development Bank, the international Solar Alliance, Innovate UK, and USAID. Active research collaborations with leading universities, with our work formally recognised internationally.

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