



EnOS™ **Microgrid**

Solution Powered by
AI and IoT

We understand your energy challenges

Managing energy in today's world is more complex than ever. Rising operational costs, volatile energy markets, outdated infrastructure, and the growing demand from EV infrastructure all make efficiency and resilience difficult to achieve. These challenges are driving the urgent need for additional energy capacities and smarter, more adaptive solutions.

Many organisations struggle with:

→ **Unreliable power supply**

Frequent outages and net congestion disrupt operations, creating costly downtime and operational risks.

→ **Escalating energy costs**

Market volatility drives unpredictable pricing, making long-term energy planning a challenge.

→ **Siloed energy management systems**

Disconnected legacy systems prevent organisations from optimising energy usage across multiple assets and locations.

→ **Limited revenue opportunities**

Traditional energy models don't offer the flexibility to monetise surplus energy or participate in energy markets.

EnOS™ Microgrid is built to drive change



Delivering new opportunities

Transform energy from a cost centre into a revenue generator through energy trading and flexibility markets while cutting grid costs, avoiding penalties, and optimising expenditures.



Balance supply and demand

Price arbitrage to automatically generate and sell excess energy from your microgrids when grid prices are high; and then buying and storing energy when the prices are low.



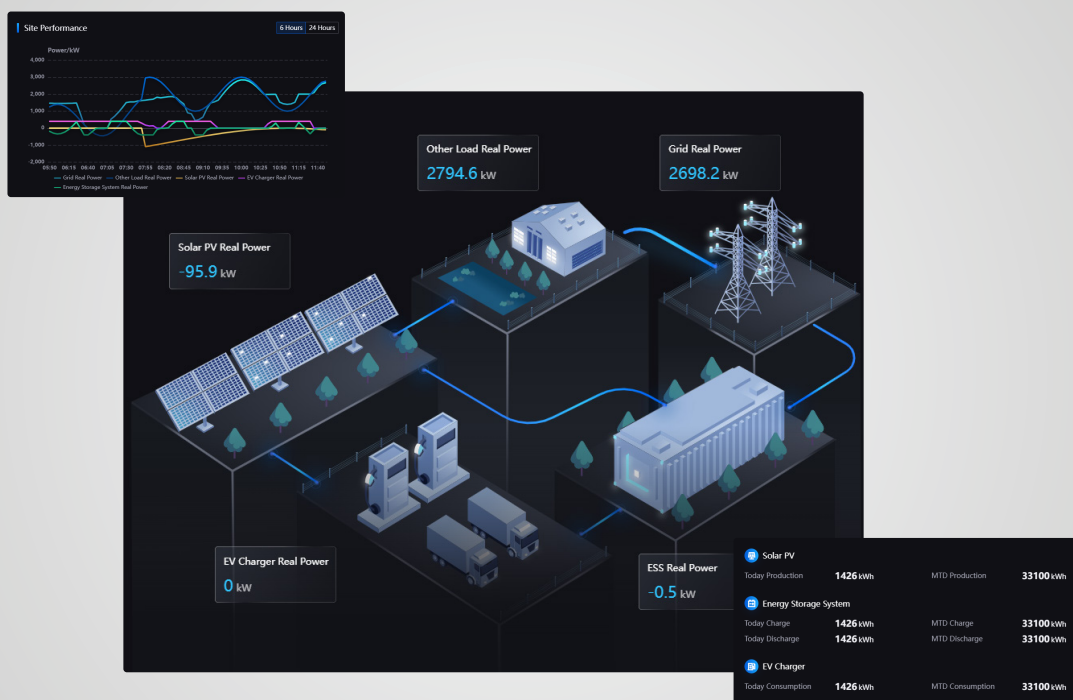
Resilience and independence

Reduce reliance on volatile grid infrastructure by integrating renewables into your microgrid — ensuring stability, cost control, and compliance with emerging energy regulations.



Integrated edge and cloud control

Provides real-time data and control of all connected assets through the cloud platform for strategic optimisation and long-term efficiency gains.



Capabilities at a glance

EnOS™ Microgrid is a hardware-agnostic energy management solution that orchestrates energy assets and consumption. With high-speed control, rich data analysis, and a cloud-based fleet view, it ensures seamless scalability and security.



Energy orchestration

Optimises asset usage in real-time, reducing operational costs and improving sustainability by minimising energy waste.



OEM-agnostic and scalable

Compatible with multiple hardware providers and energy types (solar, wind, diesel, etc.), enabling faster deployment.



New revenue streams

Unlock new streams by enabling market participation through energy trading and price arbitrage.



Grid compliance and security focus

Ensures regulatory adherence across multiple global regions, reducing compliance risks and enhancing trust with regulators.

How EnOS™ Microgrid works

EnOS™ Microgrid seamlessly connects existing energy assets and provides intelligent, real-time oversight. It uses the power of AI to autonomously predict, manage, and optimise energy across:

- Distributed Inverter-Based Resources (IBR)
- Battery Energy Storage Solutions (BESS)
- Controllable Loads
- Electric Vehicle (EV) Charging Infrastructure

Its cloud-based fleet view is a key differentiator, allowing organisations to scale seamlessly across multiple locations with secure, centralised control.



How EnOS™ Microgrid differentiates itself

EnOS™ Microgrid is built for enterprises that require scalability, resilience, and intelligent decision-making across multiple locations.

Built for multi-site scale, not just single facilities

Most microgrid solutions are designed for individual sites, making it difficult to integrate energy management across multiple locations.

EnOS™ Microgrid is built from the ground up to provide a unified, cloud-based fleet view, ensuring seamless coordination across all energy assets.



Hardware-agnostic and built for any energy infrastructure

Unlike other companies that lock customers into proprietary hardware ecosystems, EnOS™ Microgrid is OEM-agnostic, integrating seamlessly with existing energy assets.

This means enterprises don't have to rip and replace their infrastructure, reducing implementation costs and accelerating time to value.



From cost centre to revenue generator

Traditional energy management solutions focus solely on reducing costs, but EnOS™ Microgrid enables enterprises to monetise energy surplus, participate in energy markets, and optimise grid interactions to maximise incentives.



Proven solutions that drive real results

● The Netherlands

Albert Heijn accelerated its path to net zero

Albert Heijn — the Netherlands' largest supermarket chain and part of Ahold Delhaize — faced mounting challenges: growing grid congestion, upcoming zero-emission zones from January 2025, growing EV infrastructure needs, and the need to maintain uninterrupted 24/7 operations across its 1,300+ stores and e-commerce network.

Outcomes:

200+

assets from different OEMs connected across multiple Distribution Centres (DCs) and Home Shopping Centres (HSCs)



Enhanced power management system: seamless asset connectivity ensuring interoperability



● Belgium

AET reduces grid dependency

The Port of Antwerp-Bruges sought to revolutionise its energy management practices starting at Antwerp Euroterminal ("AET"), its largest multipurpose terminal.

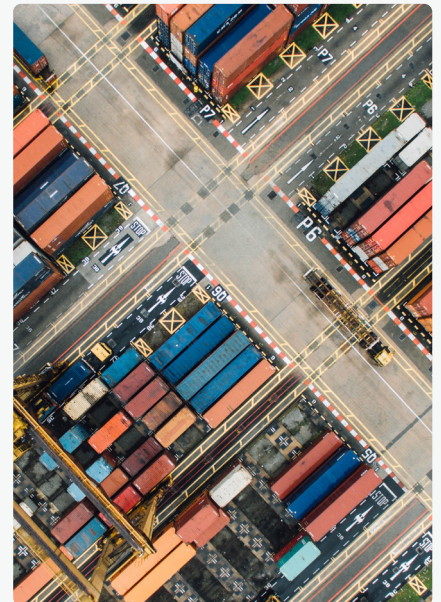
Outcomes:

50%

reduced grid dependency



Increased efficiency through the optimisation of energy consumption patterns



● Singapore

JTC Corporation develops Singapore's first district-level Smart Grid

As part of a consortium, Univers will design, build and operate a Smart Grid integrating a BESS with solar photovoltaic panels to optimise energy efficiency across the Punggol Digital District of Singapore through real-time data management using EnOS™ Microgrid and renewable energy generation.

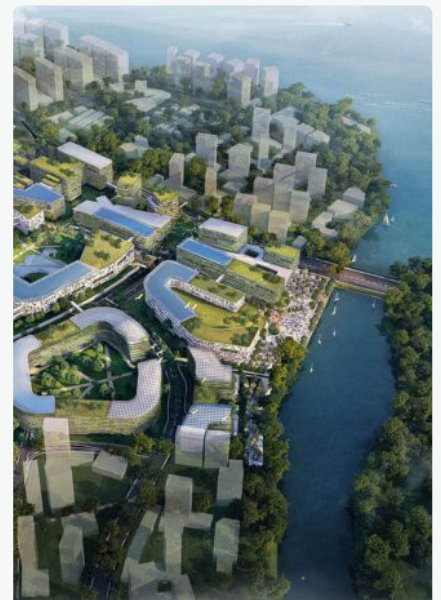
Outcomes:

50%

improvement in district energy efficiency



Reduce carbon footprint through strategic load management





Empower your business with EnOS™ Microgrid for a smarter, more resilient energy future.

Univers is the global leader in **AI and IoT for Energy**. Our EnOS™ platform empowers enterprises across industries to solve complex energy challenges with intelligent, data-driven insights.

With over 324 million devices connected, more than 788GW of renewables managed, and a global network of 1,200+ customers, we are the only global technology partner offering a truly comprehensive, end-to-end energy management solution, supporting enterprises at every stage of their energy transition journey.

Get started today



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