



## EnOS™

A comprehensive system  
delivering **AI and IoT for  
Energy**, for every stage  
of energy transition

# EnOS™ is built to drive change

Univers EnOS™ (AI and IoT for Energy Operating System) brings together all of the connectivity, AI-driven data analytics and specialist applications to overcome all of these challenges, all at once, or piece-by-piece, and is ready to be extended to meet future needs.

A true **AI and IoT for Energy**, EnOS™ creates the deep, whole-portfolio vision required for effective and swift measurement, planning and control. None of the detail is lost, and can be surfaced, visualised and analysed at will.

Meeting the four key requirements for an intelligent solution to energy optimisation and decarbonisation:



## 1. Enabling Connectivity

EnOS™ connects diverse energy and operational systems — across sites, assets, and regions — by harmonising data from edge devices, meters, IoT sensors, and legacy systems to create a unified data fabric that powers enterprise-wide intelligence. Its Cloud + Edge architecture, combined with extensive protocol adaptation, ensures seamless connectivity to heterogeneous devices and systems. This establishes a high-quality, scalable data foundation essential for driving advanced analytics and operational excellence.



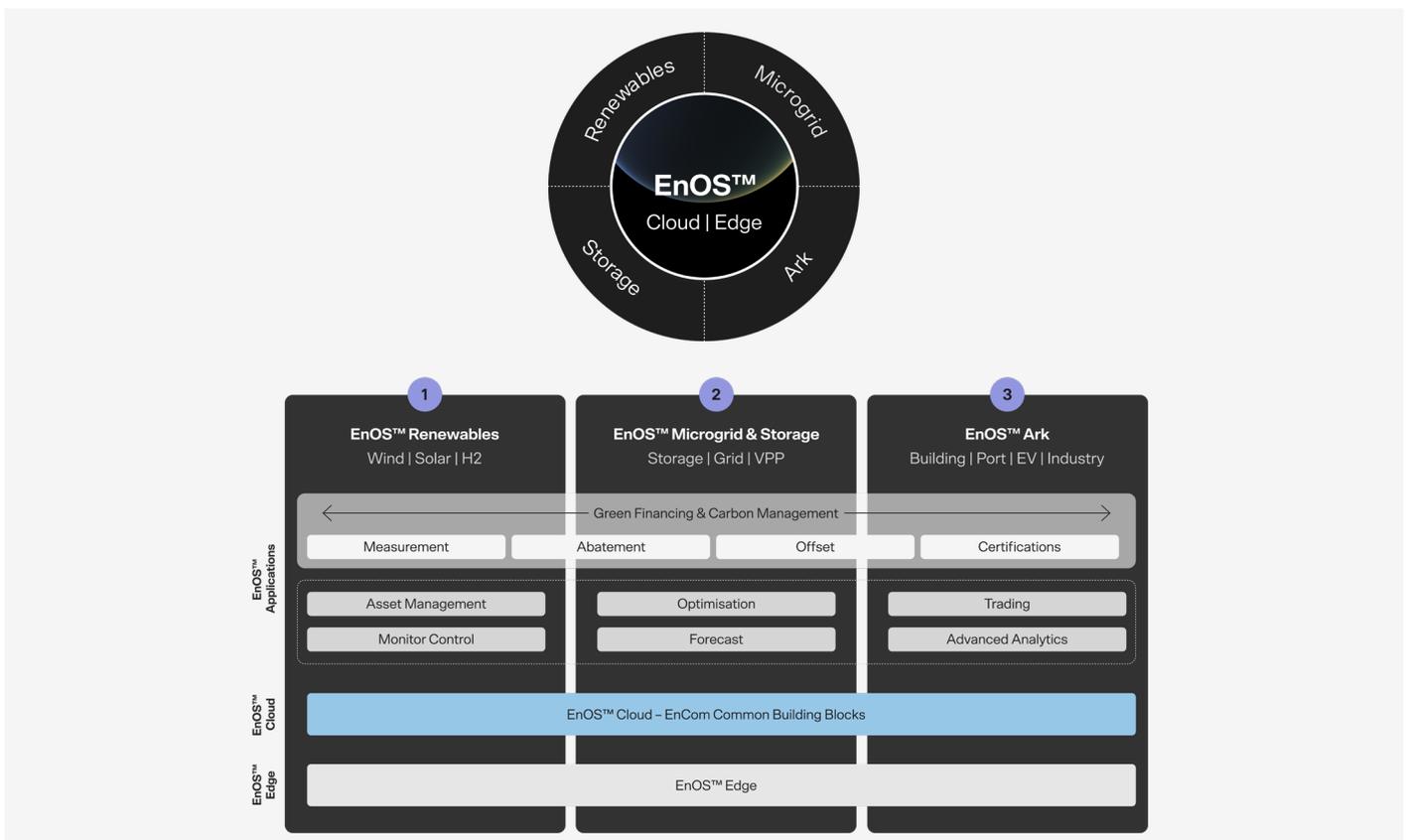
## 2. Enlightening insights and actions

Jumpstart your energy transition and harmonising journey with EnOS™ off-the-shelf applications —tailored to your operational needs and designed to deliver immediate business value. Whether advancing carbon management with Ark, enhancing energy resilience through Microgrid, or ensuring grid compliance with the Power Plant Controller (PPC), all applications are built on a shared, AI-powered foundation. Modular, interoperable, and fueled by unified data and scalable logic, EnOS™ applications accelerate impact while supporting long-term flexibility and growth.



## 3. Empowering customisation and innovation

Built on open standards and a modular architecture, EnOS™ is designed for continuous growth and innovation. Enterprises can easily connect new systems, deploy AI-powered applications, and customise the platform using Software Development Kits (SDKs), APIs, and composable building blocks—ensuring long-term agility. EnOS™ Cloud captures and accumulates industrial expertise as AI knowledge graphs, models, and agents, working in synergy with general machine learning and generative AI technologies to accelerate time-to-solution. Its scalable design allows you to start small and expand on demand, supporting your business through cost-effective, phased investments.



# EnOS™: built for the energy transition and more

EnOS™ harnesses AI and IoT to bring both a platform and a suite of applications to manage every part of an organisation's energy and resource ecosystem across its sustainability journey.

## ● The platform

Our platform provides the tools and technology to read, understand data and execute control over all of your energy and other critical resources.

It creates a robust and complete data foundation for energy and resource management, sustainability intelligence, AI applications and action.

## ● The applications

While Cloud and Edge create the capability for data to be collected, stored and understood, a suite of applications take insights and action to the next level through advanced AI.

## ● EnOS™ Cloud

Orchestrates data from an unlimited number of sources – IT, OT, IoT and third-party data are all interpreted, recorded, harmonised and rendered visible for further analysis, control and reporting.

## ● EnOS™ Edge

Works at the opposite end of the scale – on the ground, on site, connecting sensors and meters from almost any supplier, using any industry protocols and offering fine-level control through Edge computing devices.

## ● EnOS™ Ark

Ark provides centralised analysis, modelling and control. Its advanced AI and BI tools enable a clear visualisation of the entire estate. It identifies positive pathways for effectively managing carbon, energy and resources.

## ● EnOS™ Microgrid

Designed for companies seeking to closely manage alternative energy sources such as renewables and storage, to increase energy resilience, and lessen the impact of public grid restrictions and peak-time costs.

## ● EnOS™ Renewables

Fine optimisation for wind and solar power generation, ensuring power is effectively created, stored and distributed, whether at a single site or across continents.

## ● EnOS™ SCADA & PPC

Designed for operators managing a mix of solar, wind, battery storage, and hybrid plants across multiple locations and brings AI-powered analytics and control to their fingertips.

## ● EnOS™ Storage

Offers end-to-end management of stored power across its lifecycle, from operation and monitoring to optimisation across multiple sites and geographies.

## ● EnOS™ Charge

Transforms enterprise EV charging with smart technology to optimise energy use, enhance user experience and support decarbonisation.

# Univers is the Global IIoT Platform with the highest Completeness of Vision



Univers ... is a Visionary in this Magic Quadrant ... Univers emphasises supporting customers' decarbonisation, net-zero emissions journeys and sustainability objectives with its EnOS™ platform. Univers builds on its energy domain expertise with its EnOS™ Solution Suite for energy management, carbon management and device management.

These are complemented by industry solutions for renewables, manufacturing, ports, transport and more. Univers leverages a composable approach to business solutions that starts with building blocks for device models, alarm rules or visualisation templates, for example. Univers partners cover a broad spectrum, including Accenture, Advantech, AWS, Dassault Systèmes, Google, Microsoft and SAP.

Univers' software platform minimises implementation efforts and accelerates time to value through a combination of platform features, tools and specialised applications. These include data discovery tools, device connectivity and management, EnOS™ Edge, and 200+ protocol adapters for heterogeneous industrial assets and sensors.

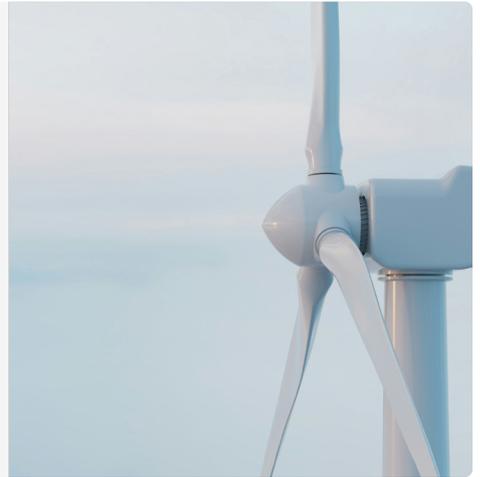
— 2024 Gartner Magic Quadrant for Global IIoT Platforms



# Why EnOS™?

## Connect to any existing hardware infrastructure

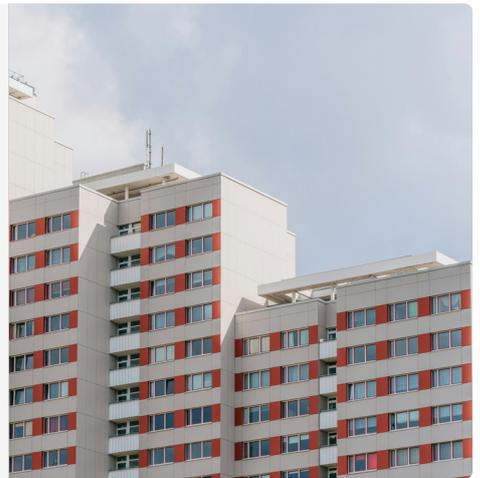
EnOS™ comes pre-loaded with libraries and adapters to connect all the existing devices in your portfolio, from almost any vendor, and thus also gives you complete freedom to extend or alter your energy ecosystem with whichever partners you choose. This hardware agnosticism is a cornerstone of our approach, and means we're able to help at every stage of your sustainability journey.



## Specialism and experience

Unifers was created to build upon decades of experience in energy management with an entirely new, wholly integrated, AI-powered software suite.

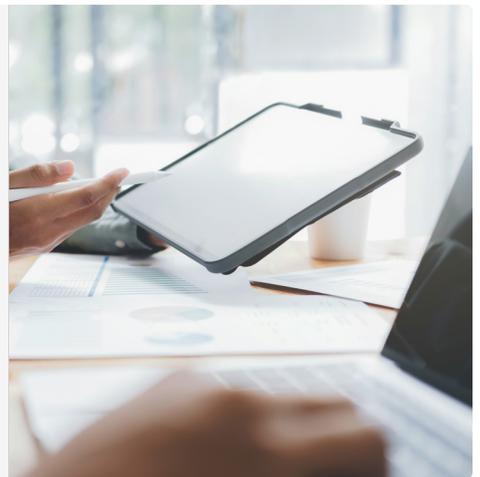
With 280 million devices already connected to our cloud intelligence, 788GW of renewable power managed, and a global network of 1200+ enterprise customers: we manage more power, across more industries, in more places, than any specialist supplier.



## Customisation

EnOS™ measures data across millions of devices, then surfaces insights using flexible CBBs that can be recombined to build custom applications.

Open standards and components mean developers can create entirely new applications rapidly.



## Breadth and depth

No other vendor offers Unifers' combination of breadth and depth. While there are many suppliers with specialisms in some fields of energy and resource management, EnOS™ covers everything from renewables and gas meters, to air conditioning and vehicle charging.

This breadth is matched by the depth of EnOS™'s end-to-end approach. It brings data from the individual device level, from sites potentially spread across continents, gathers and manages that data, and surfaces accurate, actionable insights into how energy and resource use can be reduced and optimised.



# Proven solutions that drive real results

## Financial Services

### HSBC saves more than 700,000 kwh in 3 months

HSBC deployed EnOS™ to unify legacy BMS and enable energy optimisation across multiple APAC markets.

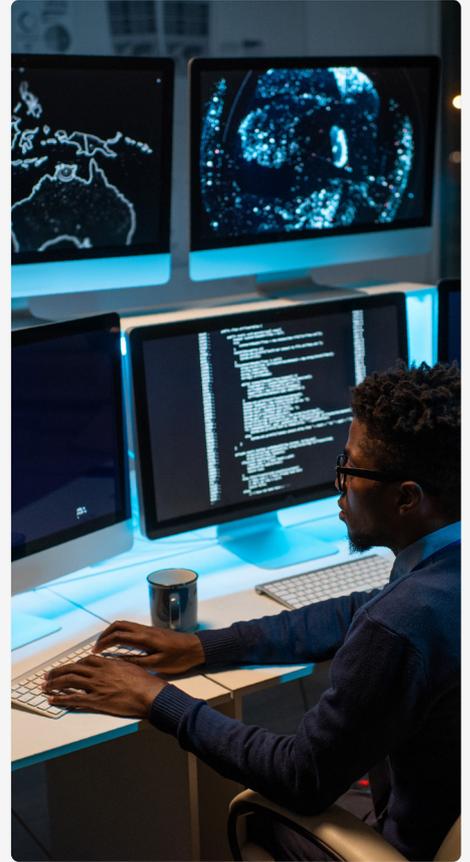
#### Outcomes:

>700<sub>k</sub> kWh

saved in 3 months

3<sub>x</sub>

higher annual savings than forecast



## Energy & Utilities

### Eaton accelerates its digital transformation

Faced with high IoT deployment costs and complex integrations, Eaton implemented EnOS™ to reduce rollout time and unify data access.

#### Outcomes:

30%

reduced IoT access costs

>200

communication protocol adapters used for easy connection to various PLC, sensors, and third-party systems



● Facility Management

## Certis boosts productivity with AI HVAC optimisation

Faced with limited data, which was time-consuming to extract and process, employing EnOS™ applications allowed the facilities management and security specialist access to real-time data and predictive analysis.

**Outcomes:**

10%

productivity gain through automation

5%

energy savings through smart operations



● Technology

## Microsoft meets green ambitions with EnOS™

With a commitment to becoming carbon-negative by 2030, Microsoft turned to Univers to help reduce its buildings' energy consumption. The solution was a connected energy management system spanning across campuses with advanced analytics and AI informing decisions.

**Outcomes:**

2%

annual reduction in energy management costs

5

Campuses connected to EnOS™-based smart building solution





Rapid progress against your energy and sustainability targets doesn't need to be complex. EnOS™ gathers, manages, analyses and controls all your usage, making a comprehensive decarbonisation journey faster, scalable, and complete.

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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