EnOS™ **Cloud**

Real-time AI enterprise platform for monitoring and optimising energy, carbon, and asset operations

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We understand your challenges in digital transformation for sustainable operations

Modern enterprises face increasing complexity in their journey toward sustainable and intelligent operations. Challenges from managing and integrating diverse assets and systems, limitations in leveraging existing hardware and cloud infrastructure, to the complexity of processing large amounts of IoT device data or putting strains on achieving real-time monitoring of systems.

Many organisations struggle with:

→ **Integration complexity**
Today's operations and sustainability management rely on data from distributed fleets of facilities, assets, and renewable systems across the enterprise and its supply chain, making integrated and transparent management extremely challenging.

→ **Overloaded, underused insights**
While organisations collect more and more data, they aren't yet effectively utilised and deliver actionable insights that drive for operation efficiency.

→ **Insights without optimisation**
Organisations still depend heavily on specialised expertise to translate insights into manual actions, making it difficult to close the operational loop.

→ **Optimisation without direction**
Point-to-point optimisation occurs without systematic guidance or effective tools to track and manage the process.

EnOS™ Cloud is powered by AI to drive change

Comprehensive management
EnOS™ Cloud - infused with industrial expertise at every layer and delivered through comprehensive off-the-shelf applications, toolkits, templates, and libraries - empowers the entire journey: from building real-time transparency across asset fleets and systems to driving immediate action through insights.

Seamless adaptation
With an open design and rich libraries of IT and OT data connectors, EnOS™ Cloud is open at every layer of the architecture - from infrastructure to devices, data, and applications - seamlessly integrating with your existing hardware and cloud environments to build a centralised industrial data platform that empowers your transformation journey.

Flexible scalability
A fit-for-purpose and scalable footprint that grows flexibly as transformation deepens - with more data, evolving use cases, a built-in AI engine, and a common set of building blocks designed to continuously drive industrial expertise accumulation and AI app innovation.

Capabilities at a glance

EnOS™ Cloud is a comprehensive, AI-powered enterprise IoT platform purpose-built to manage the entire decarbonisation journey - driving carbon, energy, and asset operational efficiency through a programmable, configurable, and integrated solution suite.

AI-powered
EnOS™ Cloud captures and accumulates industrial expertise in the form of AI knowledge graphs, models, and agents, which work in synergy with general ML and generative AI technologies - accelerating time to solution.

Common Building Blocks (CBBs)
Composable, configurable, and customisable application building blocks that continuously transform data into insights, optimisation, reporting, and advanced analytics - through a simple and agile approach.

Seamless adaptation
An open design with rich adapters and low-barrier integration tools enables seamless integration with existing infrastructure, IT and OT systems, across operational units and at enterprise scale.
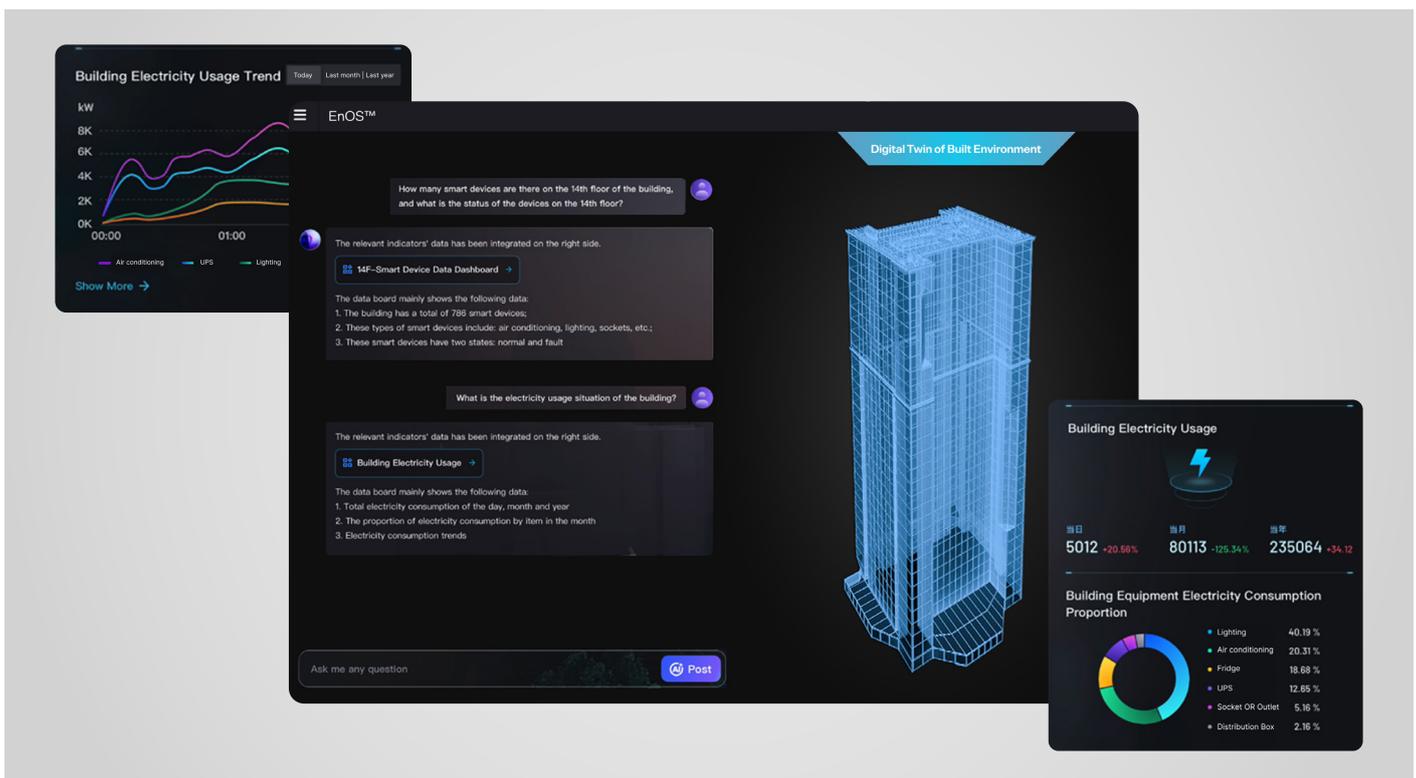
Scalable technology
Built on a modular architecture, EnOS™ Cloud enables you to start small and scale on demand - growing with your business through cost-effective, phased investments.

How EnOS™ Cloud works

EnOS™ Cloud is a modular, scalable enterprise platform that harnesses AI and IoT capabilities to seamlessly connect with existing hardware, cloud infrastructure, IT and OT systems, as well as distributed assets and operations - establishing a secure, unified industrial data foundation.

Built on this foundation, EnOS™ leverages embedded industrial expertise and AI technologies - including industrial knowledge graphs, models, and agents - to efficiently transform raw data into actionable insights, operational optimisation, and advanced analytics.

The platform delivers immediate value through proven, ready-to-use applications for energy efficiency, sustainability management and compliance, and critical asset operations and maintenance. It also empowers custom development with comprehensive toolkits, templates, and libraries - enabling flexible innovation and fostering open ecosystem collaboration.

How EnOS™ Cloud differentiates itself

EnOS™ Cloud embeds AI across every layer of the technology stack - enabling intelligent data onboarding, AI-ready full-lifecycle data management, and AI-driven energy, asset, and operations management tailored to your needs.

Connect with ease, and at scale

Enable rapid and comprehensive device and system data onboarding across diverse networking environments and communication protocols. Overcome integration challenges through two specialised libraries: an Industry Protocol Library supporting over 200 standards (Modbus, OPC, IEC, BACnet), and a Device Model Library that unifies vendor-specific languages into a single digital twin model.

On top of its robust connectivity capabilities, EnOS™ offers a smart onboarding tool that streamlines large-scale, multi-site, multi-asset deployment through preconfigured templates and best-practice toolkits. It enables efficient asset modelling, topology configuration, device auto-discovery, and data auto-mapping -while ensuring data integrity through comprehensive end-to-end validation processes.
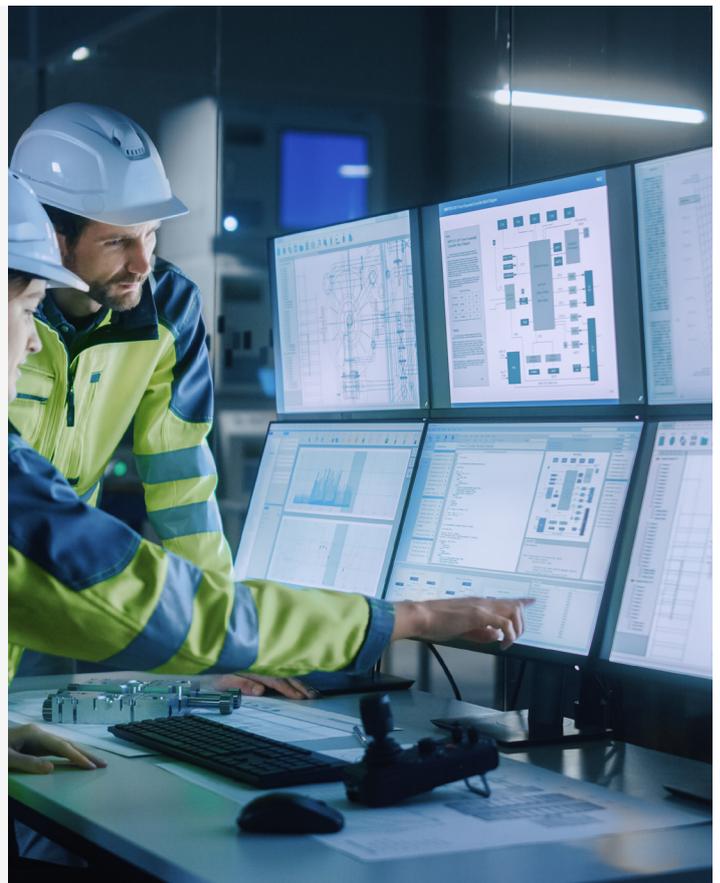

Manage with governance

Provide comprehensive lifecycle management for both IT and OT data by handling ingestion, storage, governance, and sharing. The platform efficiently ingests OT data from IoT sensors and SCADA systems while integrating IT data from ERP, MES, and carbon databases to create a unified IT+OT data foundation.

Centralise the management of your data assets through consistent modelling, unified standards, and governed knowledge management - creating a reliable, AI-ready data foundation.

Simplify data access through multiple options (API, SQL query, download, etc.) that supports both real-time push via subscriptions and batch scheduling, enabling organisations to efficiently manage their data while maintaining performance, consistency, and security.
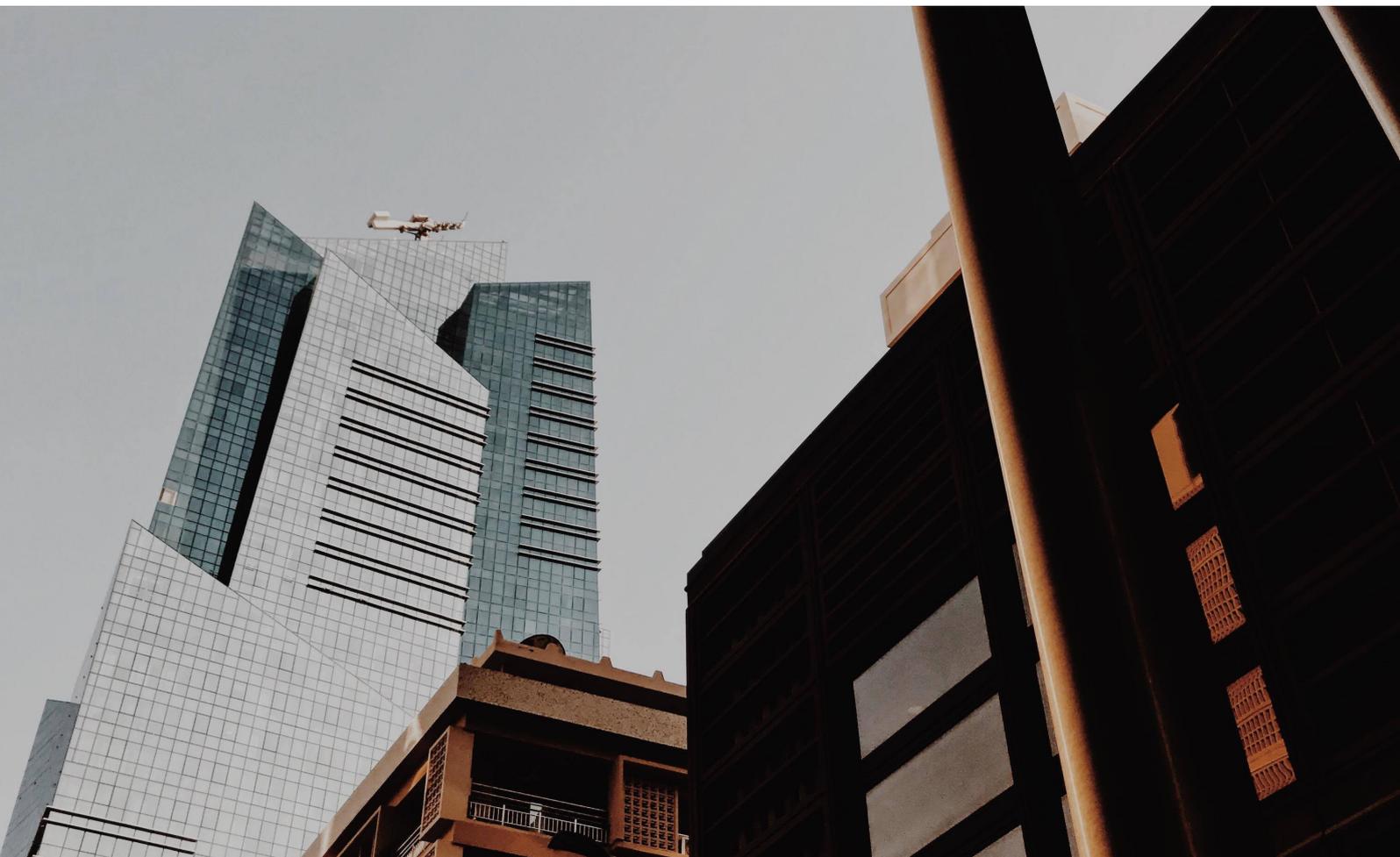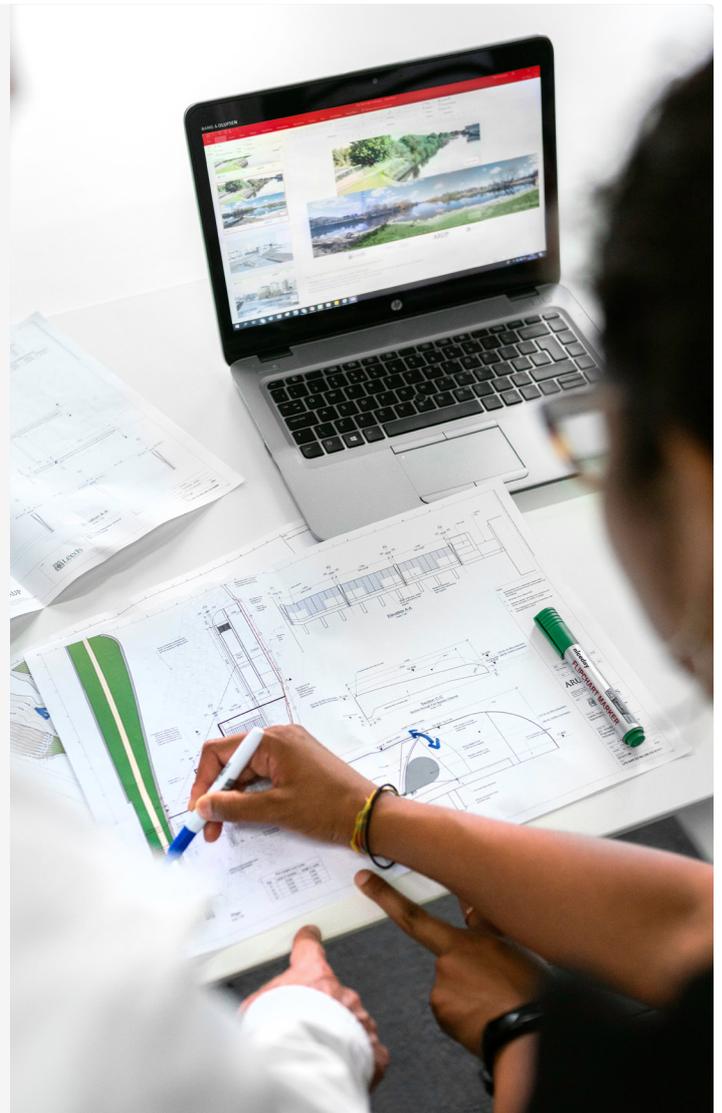
Build as you grow

EnOS™ offers four groups of smart application building blocks, all directly connected to modelled data - enabling high configurability and adaptability across use cases:

- **Smart Visualisation:** Drag-and-drop templates powered by an AI copilot deliver dynamic monitoring and a personalised operational experience.
- **Smart Rules:** Utilise predefined and auto-generated rules to support predictive maintenance and proactive decision-making.
- **Smart Actions:** Streamline the transition from insights to action through integrated operational workflows, enriched with an embedded O&M knowledge base to guide maintenance execution.
- **Smart Reports:** Automate the generation of reports to drive continuous improvement, leveraging both real-time and historical operational KPIs.

The platform supports scalable implementation, while prioritising cybersecurity by incorporating robust security features and governance frameworks that adhere to industry standards like CMMI, NIST SP 800-53, and ISO 27701.

Proven solutions that drive real results

● Energy

Digitalised global asset operation at the largest scale

One of China's leading power generation companies established the largest-scale digital asset operation with EnOS™ Cloud. Through comprehensive monitoring and reporting across their asset fleets, they gained global transparency, enabling multi-layer management across headquarters, regional companies, and sites. This resulted in increased maintenance efficiency and a reduction in asset downtime and critical losses.

Outcomes:

>**10**%

In asset operation cost saving through real-time insights and predictive maintenance.

100%

renewable energy implemented.

● Transportation

Comprehensive solution to optimise energy, asset, and system efficiency

PSA, one of the world's largest ports, has built a centralised platform with comprehensive solutions from EnOS™ to continuously optimise energy, asset, and system efficiency, driving greener and smarter port operations.
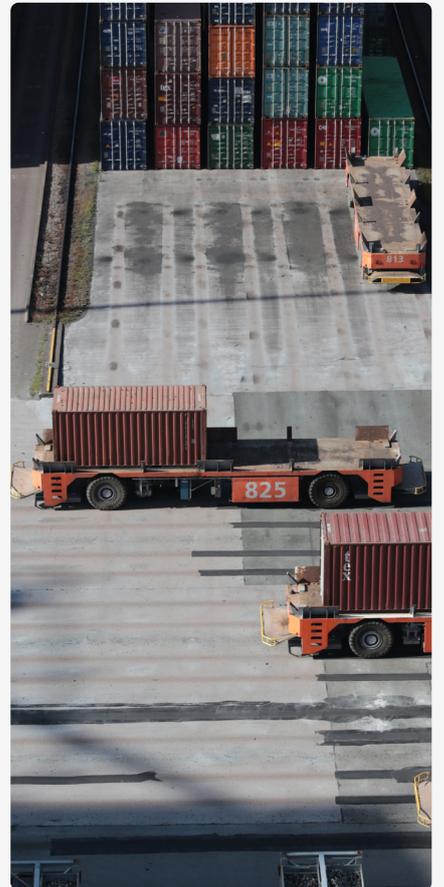
Outcomes:

Real-time information sharing for more efficient route planning and reduced idle time, optimising fuel consumption and lowering emissions.

Enhanced data connectivity providing real-time visibility and analytics, enabling hauliers to make informed, data-driven business decisions.

● Retail

Customer journey to smart and green retail stores

A leading global beverage company committed to building smarter and greener stores, is rolling out decarbonisation and digitalisation solutions on the EnOS™ platform across more than 1,000 stores. This initiative focuses on energy and resource usage optimisation, operational cost savings, and the renovation of customer experiences.

Outcomes:

>10%

Savings in energy consumption through optimised air conditioning.

170GW

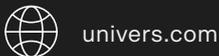Renewable energy implemented.

Oversight of your energy doesn't need to be complex. EnOS™ Cloud makes managing the decarbonisation journey easier, scalable, and on your terms.

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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