iems

Intelligent Energy Management Solutions

AI Transformation: Smart Low-Carbon Transition









Explore iEMS Suite

Intelligent Energy Management Solutions

Advantech's iEMS Suite technology is a cutting-edge solution for corporations striving towards carbon neutrality. This smart energy system aligns with ISO 14064/ISO 14067 and ISO 50001 standards, focusing on carbon asset and energy management. It addresses the pressing need to reduce greenhouse gas emissions, enhancing HVAC, compressed air, and motor efficiency. Ideal for businesses committed to sustainability, iEMS Suite is your partner in achieving environmental goals and contributing to a healthier planet.



One-Stop Smart Energy Management Anchored on Low Carbon

iEMS Suite offers an end-to-cloud holistic framework, emphasizing carbon emission control, enterprise energy oversight, and key equipment energy optimization.



ISO-Compliant Energy & Carbon Stewardship

Aligning with standards like ISO50001, ISO14064, and ISO14067, our system prioritizes precise data acquisition, smart intervention, and comprehensive analytics.



Streamlined, User-Centric Solutions

Our platform boasts a web-based, drag-and-drop interface, supplemented with adaptable templates. This ensures not only easy replication but also facilitates seamless user adoption and engagement.



Real-Time Energy & Carbon Metrics Visualization

Harnessing cloud-based intelligence, our visual dashboards equip businesses with instant insights into energy and carbon metrics. This allows executives to craft timely, initiative-aligned decisions that foster operational cost efficiency.

Focused Industries



Traditional Manufacturing

Provide comprehensive energy management services for smart manufacturing plant management.

Focused Industry: Chemical, Petro Chemical, Steel, Textile

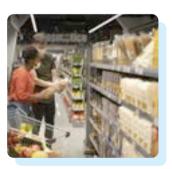
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Hi-Tech Industry

Provide high-tech factory management and large-scale park energy management services

Focused Industry: Electronic,Electrical Machinery, Semi Conductor



Retail & Chain Stores

Provide comprehensive energy management services for the retail and chain store sectors.

Focused Industry: Retail, Shopping Centers, Parks

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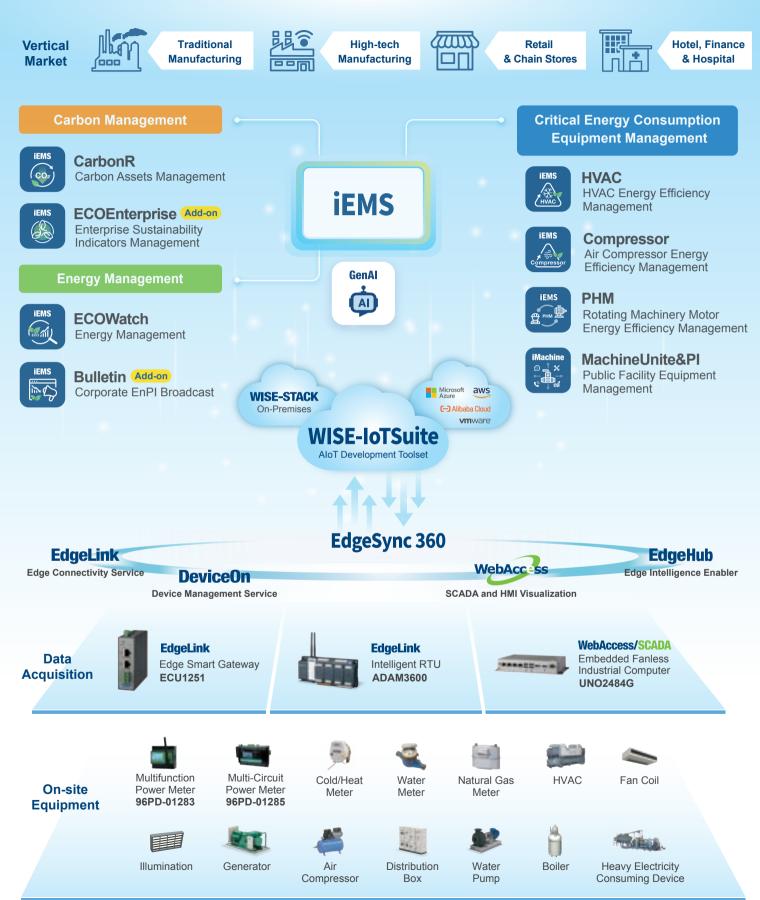
Hotel, Finance & Hospital

Offer tailor-made comprehensive energy management services for various service industries.

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Focused Industry: Finance, Hotels, Healthcare Facilities





Industrial Apps

Carbon Management



CarbonR

Analyze enterprise carbon emissions and product carbon footprint with digital carbon inventory system. Ensure ISO 14064 / 14067 compliance.







ECOEnterprise Add-on

A CarbonR add-on module designed to assess the sustainability KPIs of global enterprises, covering energy performance, SBTi, RE100 progress, and energy-saving outcomes.





Energy Management



ECOWatch

Track energy and renewable energy performance KPIs. Conduct multi-dimensional analysis of energy data for cost reduction. Manage energy conservation projects. Ensure ISO 50001 compliance.



Bulletin Add-on

An add-on module of ECOWatch for public audiences to quickly understand corporate energy performance.







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Critical Energy Consumption Equipment Management



HVAC

Monitor HVAC system & AI control to achieve management efficiency improvement and overall energy cost reduction.







PHM

Identify abnormalities or deterioration, understand equipment status, enhance management and maintenance efficiency, extend equipment lifespan, and reduce life cycle operating costs of motor equipment.







Compressor

Optimize management efficiency and reduce energy costs across the entire compressed air system by combining centralized control, information processing, energy-saving control, and predictive maintenance.





MachineUnite & PI

Connect all public facility equipment, including chillers, compressors, boilers, heat pumps, generators, etc., onto a single platform to manage their entire lifecycle. Automate repair and maintenance assignments to enhance availability, minimize downtime, and mitigate risks.





Success Cases



Semiconductor Industry

Vishay Leverages Advantech's iEMS ISHAY. Suite for Energy Management Solutions across Asia-Pacific

"For a semiconductor factory that operates 24/7 all year round, the key to minimizing energy waste and carbon emissions while lowering production costs lies in tracking energy consumption and promptly identifying anomalies."

Hai Tsai Asia-Pacific's Senior Director of Vishay Group

Case Benefits

- · Improved equipment efficiency and resource utilization.
- · Reduced production costs and human resources.
- · Decreased equipment maintenance costs and equipment failure rates.



Industry

Case Benefits

- · Enables accurate planning and utilization of the solar power system.
- Reduces carbon emissions and electricity costs.
- · Realizes the goals of energy conservation and consumption reduction.

Lin Wen -Hsiu,



Advantech's iEMS Suite Assists TGOOD Chuan Kai Electric to Move Toward Smart Energy

"Advantech shows its commitment to reducing industrial carbon emissions by offering the latest and most practical solutions and products.

Shi-Xu Liu, President of the Smart Energy Research Institute of Chuan Kai Electric

Case Benefits

- · Enables accurate planning and utilization of the solar power system.
- · Reduces carbon emissions and electricity costs.
- · Realizes the goals of energy conservation and consumption reduction.



Industry

- · Optimization of the group's operational costs.

iEMS



Knowledge management involving documents and data.

Retrieve information through a user-friendly interface.



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Efficiently organize the unstructured data

knowledge delivery.





Organize information with flexibility and efficiency.



Energy-Saving Strategy Knowledge Base • iEMS energy data integration

 Merge energy-saving specialists' knowhow Include practical problem-solving experience

Equipment Management Knowledge Base HVAC data integration Merge machine experts' knowhow Include practical problem-solving experience



System Support Knowledge Base Multilingual System Support

AI Expert X KA KA KA New Message G. Electricity consumption for the Sunshine Building Lab from Feb 12 to Feb 16 is as follows: February 12": 914.81 kWh February 13th: 858.90 kWh February 14th: 913.0 kWh February 15th: 1045.64 kWh February 16th: 1062.58 kWh Give feedback 👸 🖓

AI Expert Interface Display:

Advantech's iEMS Suite Facilitates **Energy Conservation and Carbon** 炎洲集團 YC GROUP Reduction Goals for YC Group

"Implementing an energy management system not only enhances the benefits of energy conservation and carbon reduction but also optimizes the operational costs and increases YC Group's competitiveness in the global market."

Advantech's iEMS Suite Optimizes

"Dispersed across a large area, Mennonite Hospital's

operational data for AI-assisted decision-making. This

includes monitoring earthquake status and other vital

corporate operations. Advantech, our chosen partner,

Director of Engineering Management Department

campuses need a unified platform to transmit

is selected for being top in the field."

Mennonite Christian Hospital Management

Bai-Xiang Cheng, General Coordinator of YC Group

Case Benefits

· Centralized management of energy status across various plants.

- · Achieving the company's mission of promoting environmental sustainability.





Generative AI for Smart Low-Carbon Transformation







Subscription Information

iEMS Suite



CarbonR Carbon Assets Management



ECOEnterprise Add-on



ECOWatch





Bulletin Add-on Corporate EnPI Broadcast



HVAC HVAC Energy Efficiency Management



Compressor Air Compressor Energy Efficiency Management



PHM Rotating Machinery Motor Energy Efficiency Management



MachineUnite&PI Public Facility Equipment

Management

Edge Smart Collection Channel	ESRP-IEMS-ECU1051 ECU-1051, WISE-EdgeLink, VPN		EdgeSync 360 WISE-EdgeLink WISE-InsightAPM/VPN
	ESRP-IEMS-ECU1251 ECU-1251, WISE-EdgeLink, VPN		EdgeSync 360 WISE-EdgeLink WISE-InsightAPM/VPN
Intelligent RTU	SRP-IFS210-D36TAE ADAM-3600, Linux Kernal 3.12 RT, WISE-EdgeLink		EdgeSync 360 WISE-EdgeLink
Edge Smart Server	WA-SU2483G-750HA01 UNO-2483G, Microsoft Windows 10 Pro 64-bit WebAccess/SCADA 5000 tags	*****	WebAccess/SCADA



Advantech Co., Ltd.

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iEMS Suite Free Trial / Partner Cooperation