



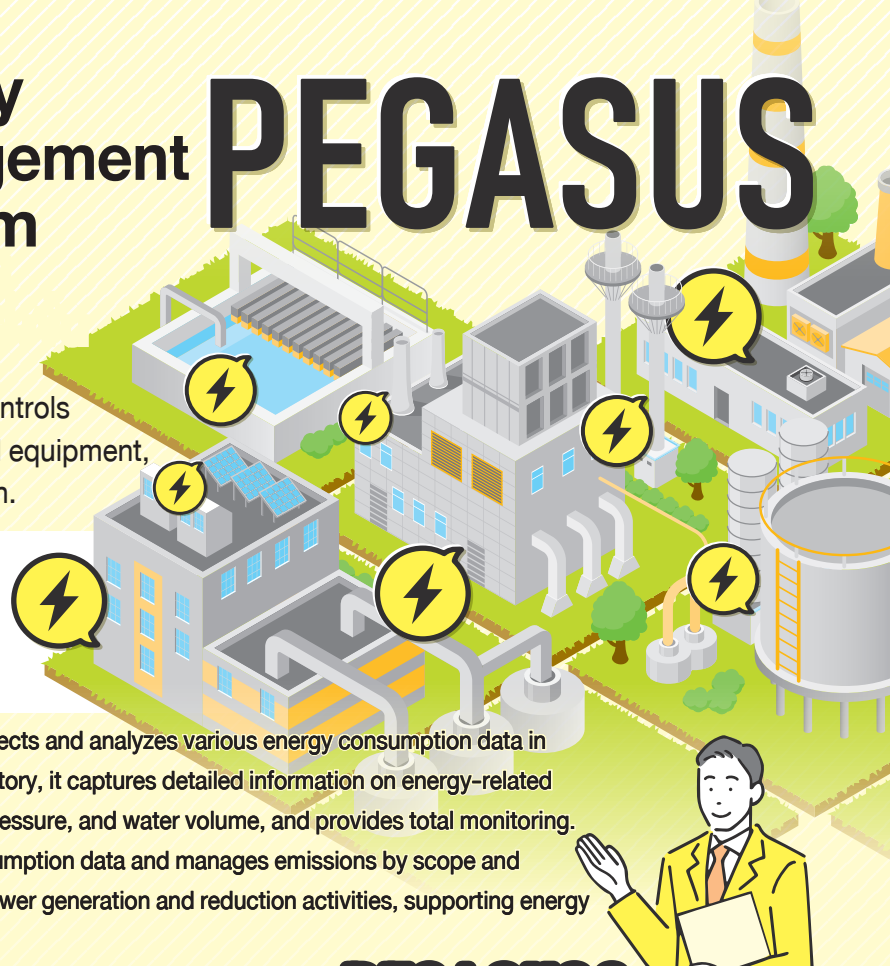
PEGASUS

Energy Management System

PEGASUS

Contributing to energy savings through energy visualization

The Energy Management System monitors and controls the power consumption and usage in facilities and equipment, enabling the "visualization" of energy consumption.



Scan here to download detailed materials



The Energy Management System PEGASUS is a tool that collects and analyzes various energy consumption data in real-time within the factory. Using sensors throughout the factory, it captures detailed information on energy-related factors such as flow rate, air volume, power, voltage, water pressure, and water volume, and provides total monitoring. Additionally, it calculates carbon emissions from power consumption data and manages emissions by scope and category. The system also displays the impact of in-house power generation and reduction activities, supporting energy optimization and sustainable operations.

What is the Energy Management System PEGASUS?



Visualization of Energy Consumption

By visualizing the energy usage within the factory in detail, you can identify which equipment is consuming how much energy. This enables the discovery of energy waste and helps find solutions for efficiency improvements.

CO2 Reduction Calculation and Management of Carbon Emissions

The system automatically calculates carbon dioxide emissions from energy consumption data and manages them by scope and category. It supports efforts to achieve environmental goals and enhances the sustainability of the company.

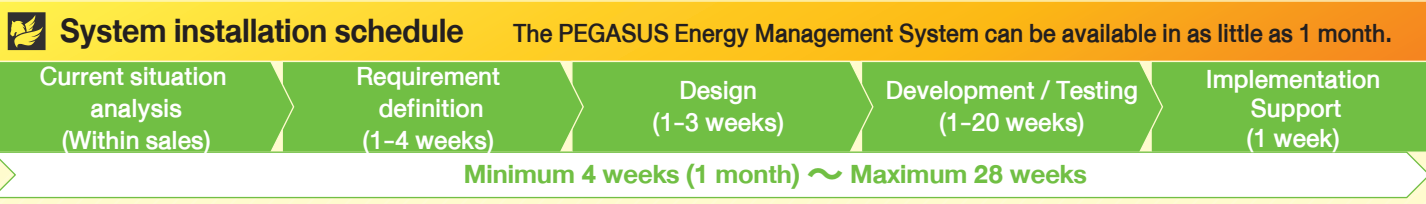
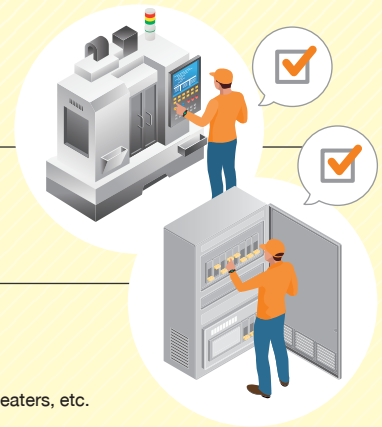
Cost Reduction Achieving Cost Savings

By optimizing energy consumption, unnecessary costs can be reduced. This is especially beneficial for manufacturing industries where energy costs represent a significant portion, greatly contributing to overall cost savings.

System Configuration Information from each sensor is stored in the database via the "Collection Unit." The stored data can be viewed in real-time using the dashboard tool.



Lighting	<input type="checkbox"/> Turn lights on and off frequently. <input type="checkbox"/> Turn off lights in unused areas. <input type="checkbox"/> Clean regularly to maintain light brightness. <input type="checkbox"/> Replace with long-lasting lights to reduce running costs.	<input type="checkbox"/> Turn off lights during breaks and after work hours. <input type="checkbox"/> Reduce the number of lights within safe working limits. <input type="checkbox"/> Replace with energy-efficient lighting such as LED or electrodeless lamps. <input type="checkbox"/> Minimize the effort required for replacements, etc.	
Air Conditioning	<input type="checkbox"/> Review temperature settings for air conditioning. <input type="checkbox"/> Review air volume. <input type="checkbox"/> Turn off air conditioning in unused rooms. <input type="checkbox"/> Stop the circulation air volume in clean rooms. <input type="checkbox"/> Remove obstacles around indoor and outdoor units. <input type="checkbox"/> Review cooling water temperature and volume, etc.	<input type="checkbox"/> Review the number of air conditioning units in use. <input type="checkbox"/> Use blinds to block sunlight. <input type="checkbox"/> Review the operation of ventilation fans. <input type="checkbox"/> Stop humidification in clean rooms. <input type="checkbox"/> Improve the temperature around outdoor units.	<input type="checkbox"/> Review the operating hours of air conditioning equipment. <input type="checkbox"/> Always close doors at entrances and in the back yard. <input type="checkbox"/> Review the intake of outdoor air. <input type="checkbox"/> Clean air conditioner filters. <input type="checkbox"/> Clean the heat exchangers of indoor units.
Production Line	<input type="checkbox"/> Turn off equipment power during line stoppages or non-operational periods. <input type="checkbox"/> Regularly lubricate equipment to reduce mechanical energy losses. <input type="checkbox"/> Review excessive cooling of products and equipment. <input type="checkbox"/> Review the set temperature of heating equipment. <input type="checkbox"/> Review the operation of transport conveyors. <input type="checkbox"/> Shorten the idle operation time of production equipment.	<input type="checkbox"/> Reduce the fan power of dust collection equipment. <input type="checkbox"/> Maintain drive belts and chains properly. <input type="checkbox"/> Regularly check for leaks, pressure, and temperature in cooling water systems. <input type="checkbox"/> Review temperature control inside industrial furnaces used in heat treatment. <input type="checkbox"/> Review the production start time.	
Compressor	<input type="checkbox"/> Review discharge pressure and flow rate. <input type="checkbox"/> Monitor air leaks and reduce pressure loss. <input type="checkbox"/> Implement unit control or inverter control.	<input type="checkbox"/> Reduce intake temperature. <input type="checkbox"/> Turn off compressors during non-production periods or holidays. <input type="checkbox"/> Optimize piping systems.	<input type="checkbox"/> Regularly clean intake filters. <input type="checkbox"/> Reduce the number of compressors in use. <input type="checkbox"/> Replace with high-efficiency compressors, etc.
Pumps & Fans	<input type="checkbox"/> Review the discharge flow rate of pumps. <input type="checkbox"/> Reduce pressure loss. <input type="checkbox"/> Optimize piping systems. <input type="checkbox"/> Replace with high-efficiency pumps and fans, etc.	<input type="checkbox"/> Review fan speed settings. <input type="checkbox"/> Prevent gas and liquid leaks. <input type="checkbox"/> Implement inverter control.	
Chiller	<input type="checkbox"/> Review flow rate settings. <input type="checkbox"/> Operate at the appropriate temperature. <input type="checkbox"/> Replace with high-efficiency cooling water generators and chillers, etc.	<input type="checkbox"/> Prevent water leaks. <input type="checkbox"/> Utilize cogeneration.	
Boiler	<input type="checkbox"/> Review the set temperature. <input type="checkbox"/> Reduce the number of units in operation. <input type="checkbox"/> Insulate external air to prevent temperature drop. <input type="checkbox"/> Utilize waste heat for cogeneration.	<input type="checkbox"/> Shorten operation hours. <input type="checkbox"/> Prevent steam and hot water leaks. <input type="checkbox"/> Stop supply to unnecessary systems. <input type="checkbox"/> Replace with high-efficiency boilers and water heaters, etc.	



Server type can be selected from cloud version and on-premise version.

#	Item	Recommended specs/Model
1	PC Server	Cloud version/On-premise version OS: Windows Server 2022 Standard Memory: 16 GB or higher Hard disk: Free space of 250 GB or higher Display: Resolution 1366 x 768 or higher Browser: Google Chrome (latest version) *Server machine with recommended model specs or higher
2	Client PC	OS: Windows7/8.1/10/11 Memory: 4GB or more Display: Resolution 1366x768 or more Browser: Google Chrome (Latest version) *PC machine with recommended model specifications or higher
3	Various Sensor Devices	Information Provided Upon Request

Apply for a free trial here

The Energy Management System PEGASUS is available for a free demonstration. You can utilize our sensor equipment to collect information and view the dashboard screen. To request a demonstration, please contact us at the following inquiry details.

© [Orders and inquiries](#)