

Accelerate Growth with WISE-iFactory

EFORTECH

Technology for better

Energy | OEE | Predictive Maintenance



Smart Manufacturing Solution

Start Your Digital Transformation!



Plug & Play

Plug and Play Technology with
Faster and Easy Development



Integrated

Support to Integrate with
Existing Systems or Machines



Easy Customization

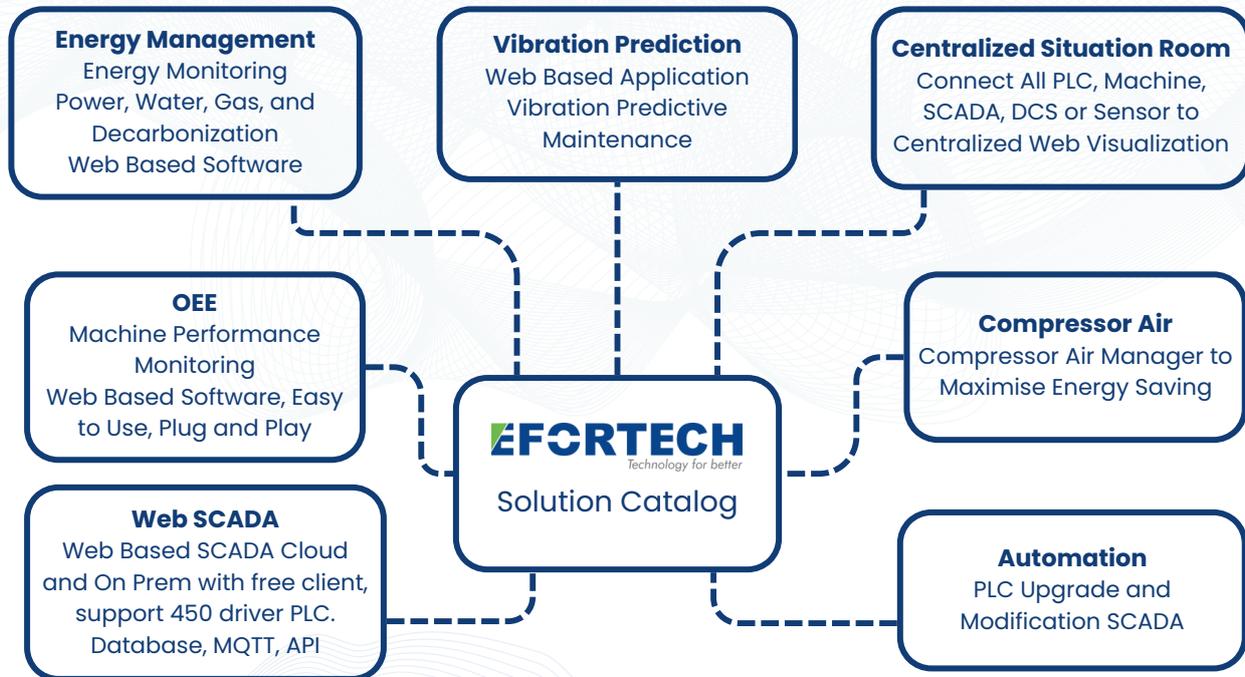
Web-based Dashboard with
Easy Customization Free Client



www.efortechsolutions.com

Plan Introduction

Our solutions combine cutting-edge computing hardware and user-friendly software, providing Low-code platforms that accelerate digital transformation and Industry 4.0. These industrial solutions, including the WISE-IoT platform: IEMS Ecowatch, Overall Equipment Effectiveness (OEE), and Predictive Maintenance, empower manufacturers for seamless progress. It offers Domain-Focused Solution Partners (DFSP) easy access to modules, facilitating collaboration with Advantech to provide robust services and tools to specific vertical industries.



iEMS Intelligent Energy Management Solution Products

Carbon Management

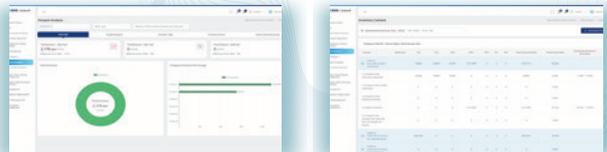
ESGInsight

The sustainability reporting system, aligned with GRI and TCFD standards, enables efficient CSR reporting. It simplifies data integration, facilitates multi-departmental collaboration, and tracks report progress. With AI draft generation, it promptly produces initial drafts from existing data, saving time and effort.



CarbonR

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



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.



Critical Energy Consumption Equipment Management

HVAC

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



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.



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.

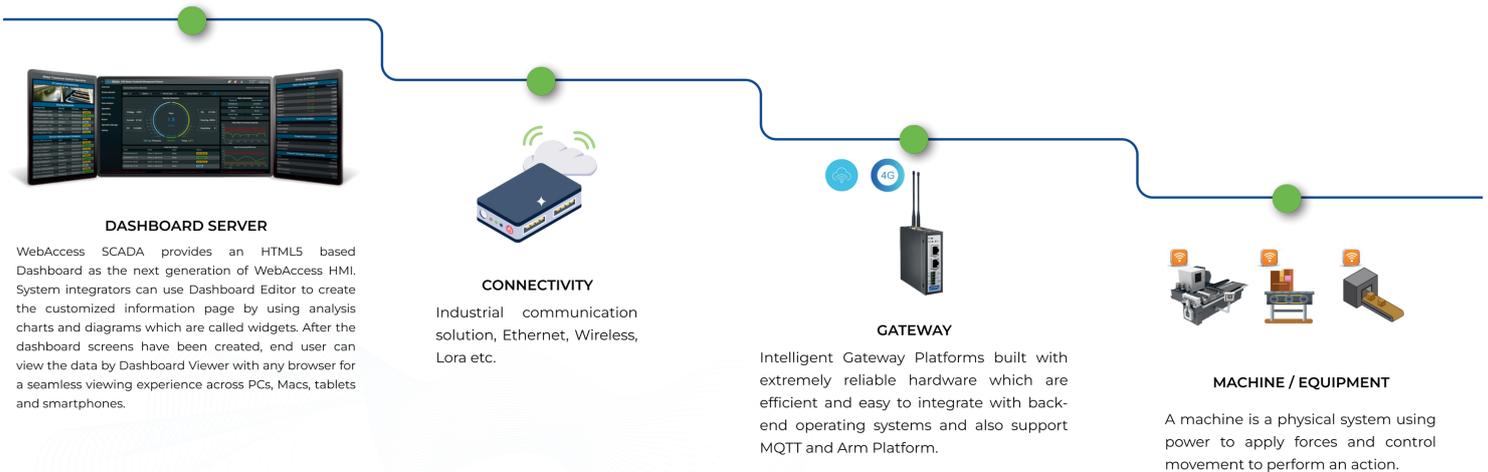


MachineUnite & PI

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.

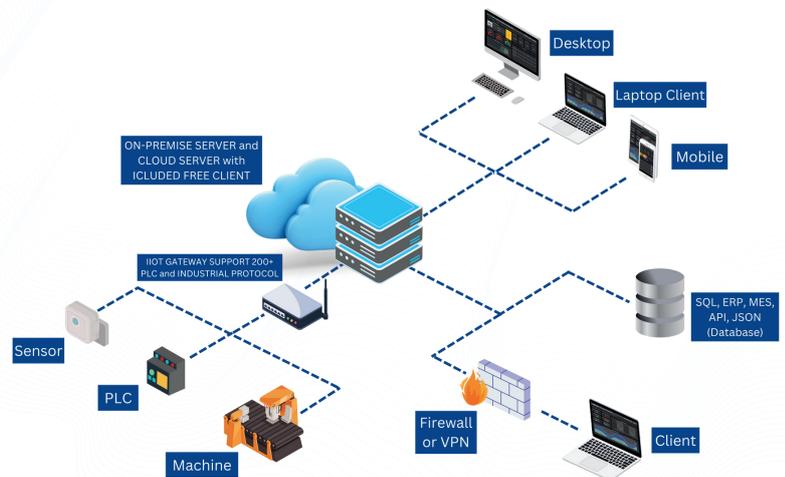


Web Based SCADA



Manage real-time Progress and Enhance Productivity

In a company's digital transformation journey, automation is often the initial step to boost efficiency and productivity. However, it can also lead to unforeseen challenges affecting production. To address this, companies are turning to automation with **Overall Equipment Effectiveness (OEE)** monitoring and production optimization strategies. **OEE** monitoring provides real-time insights into equipment performance, allowing clear visualization of the status and efficiency of all machinery.



OEE

OEE provides a quantified way to evaluate your ROI of machines, people and processes.

Availability

Availability measures equipment or process active running time.

Performance

Performance can also be calculated based on real output divided by planned output to evaluate achievement rates.

Quality

Cost of quality is the evaluation of the loss and waste due to bad practices.

Vibration for Predictive Maintenance



Conveyor Motor



Industrial Blower Fan



Air Compression Motor



Water Pump



Health Monitoring



Operation & Maintenance



Data Analytics



Predictive Maintenance

Success Cases



PT PETROKIMIA GRESIK

DCS Integration
Energy and Safety Management System
 Web Dashboard Analytic for Factory Centralized.



PT JORONG BARUTAMA GRESTON

Dewatering Pump Command Center
 Integration existing dewatering pump with level and flow to command center using cloud system



Little Parts. Big Difference.

OEE (Overall Equipment Effectiveness)
EMS (Energy Management System)



INDOKEMIKA GROUP

Production Line Upgrade
 Upgrade PLC and SCADA from 4 to 12 production lines.



Machine Digitalization
 PLC Modification
 Upgrade SCADA and Modifications



MOLTEN ALUMINUM PRODUCER
 INDONESIA

Factory Energy Management System
 Web Application to monitor electricity and Water Energy usage with a free client



SCADA and PLC Upgrade
 Energy Management System Plant 1
 Energy Management System Plant 2



PERUSAHAAN DAERAH AIR MINUM
 SURYA SEMBADA
 KOTA SURABAYA

Pump Station Command Center
 Monitoring Pump Station and some sensors which are installed in different locations around the city.



Member of Biofarma Group

IEMS Ecowatch
 WAGES Energy Management System



IEMS Ecowatch
 WAGES Energy Management System



JFE

Vibration Analysis
 Integrate vibration sensor to web-based SCADA



Factory Energy Management System
 Web Application to monitor electricity and Water Energy usage with a free client



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