

SMARTER FACTORY.
BETTER DECISIONS.
GREATER IMPACT.

AI-POWERED SMART MANUFACTURING

Turn Data into
Intelligent Actions



REAL-TIME
MONITORING



AI-POWERED
ANALYTICS



SMART
AUTOMATION



SUSTAINABLE
GROWTH



AI INSIGHTS
Smarter decisions
with real-time
intelligence.



PERFORMANCE
OPTIMIZATION
Improve OEE and
productivity.



PREDICT & PREVENT
AI-powered predictive
maintenance to reduce
downtime and cost.

REAL IMPACT. MEASURABLE RESULTS.



LOWER
DOWNTIME
Detect issues early
and prevent unexpected
stops.



OPTIMIZE
ENERGY
Monitor and optimize
energy usage to
reduce cost.



IMPROVE
PRODUCTIVITY
Maximize OEE and
increase output
consistently.



SUSTAINABLE
OPERATIONS
Reduce footprint and
build a smarter,
greener future.



LET'S BUILD YOUR
SMARTER FACTORY
TOGETHER.



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Efortech Solutions

NEW SOLUTION

iEMS Lite

by Efortech

AI-Powered Energy Management System

Turn energy data into smarter decisions.

Efortech iEMS helps you monitor, analyze, and optimize energy usage in real-time to reduce cost, improve efficiency, and achieve your sustainability goals.



Real-Time Visibility

Monitor energy consumption across all areas and equipment in real-time.



AI-Powered Analytics

AI detects anomalies and identifies opportunities to reduce energy waste.



Smart Reporting

Customizable reports and dashboards for better visibility and compliance



Energy Optimization

Optimize energy usage, lower operational cost, and support sustainability goals.

Integrated Solutions for Smarter Operations



Energy Management

Monitor and optimize power, water, gas, and carbon usage.



Vibration Prediction

AI-based vibration analysis for predictive maintenance.



Centralized Situation Room

Connect all PLC, machine, SCADA, and sensor data in one visualization.



OEE Monitoring

Track machine performance and efficiency in real-time.



Web SCADA

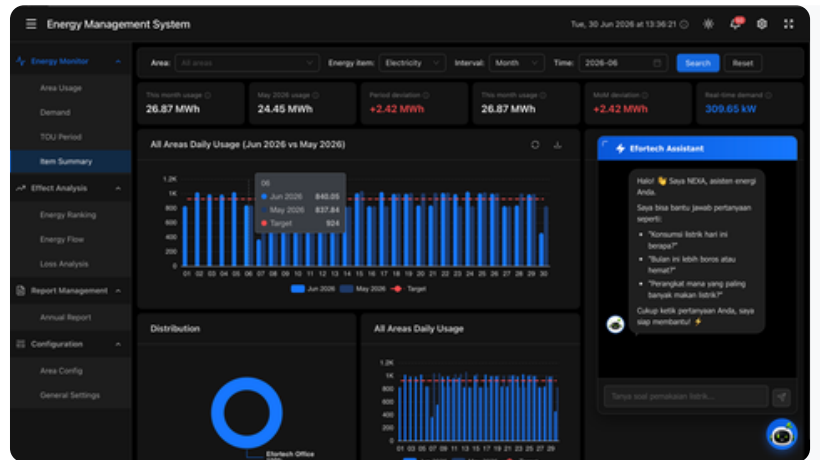
Web-based SCADA with cloud & on-premise support.



Automation

PLC upgrade and modification SCADA.

One Platform, Compare Energy Intelligence.



FROM DATA TO SMARTER ENERGY DECISIONS



Reduce Energy Cost Up to **20%**



Improve Operational Efficiency Up to **15%**



Increase Energy Visibility Up to **100%**



Support Sustainability Goals
Lower Carbon Footprint



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Scan QR Code To Learn More

iEMS

Intelligent Energy Management System

Turn Energy Data into Real Impact

A unified platform to monitor, analyze, and optimize your energy, carbon, and equipment performance. Helping you achieve higher efficiency, lower operational costs, and a more sustainable future.



Higher Energy Efficiency



Lower Operational Costs



Support Decarbonization



Ensure Regulatory Compliance

Comprehensive iEMS Modules

Everything you need for smarter energy management



Energy Monitoring

- Real-time monitoring
- Sub-metering & KPI tracking
- Energy flow visualization
- Multi-site management



Energy Cost Management

- Track and allocate energy costs
- Cost breakdown by area
- Identify cost-saving opportunities



Energy Analysis & EnPi

- EnPi calculation (ISO 50006)
- Benchmarking
- Energy performance trends
- Custom KPI dashboard



Carbon Management

- Track emissions (Scope 1 & 2)
- Support ISO 14064 / 14067
- Carbon footprint reporting
- Reduction target tracking



Equipment Intelligence

- Monitor equipment energy performance
- Detect anomalies
- Predictive maintenance support



AI Analytics

- Energy forecasting
- Anomaly detection
- Optimization recommendations
- AI-driven insights



Reporting & Compliance

- Automated reports
- Customizable templates
- Support sustainability reporting
- Export & data integration



Alerts & Notifications

- Real-time alerts
- Custom alert settings
- Email / dashboard / mobile notifications
- Proactive issue handling

Utilities We Cover



Electricity



Natural Gas



Water



Steam



Other Utilities

Aligned with Global Standards

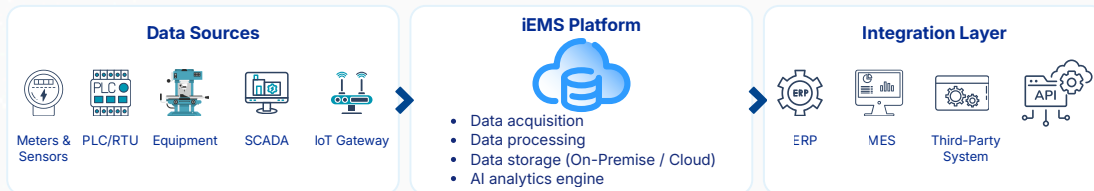
Support your sustainability journey with international standards.



ISO 50001
ISO 50002
ISO 50006

System Architecture

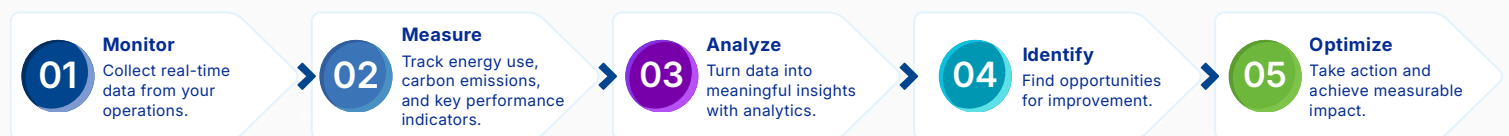
Seamless integration from field to insight



Key Benefits

- ✓ Reduce energy cost
- ✓ Improve operational efficiency
- ✓ Support decarbonization
- ✓ Increase equipment reliability
- ✓ Data-driven decision making
- ✓ Achieve sustainability goals

From Data to Real Impact



Applicable Industries

Flexible for various industries



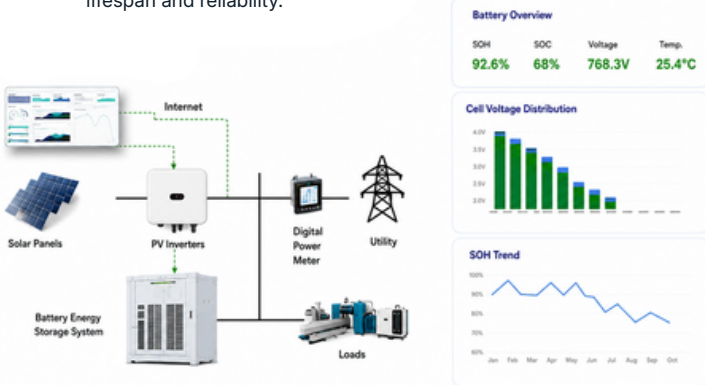
OUR SMART SOLUTION: AIE-DR BESS FOR MAXIMUM SAVINGS

Smarter BESS Operations, Higher Reliability, Lower Cost

01 BESS ENERGY MANAGEMENT

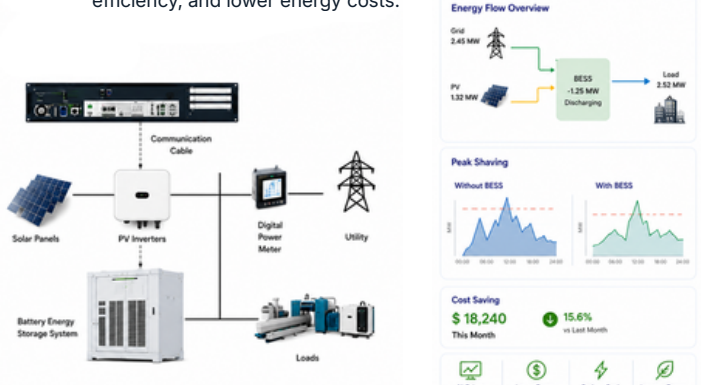
BATTERY HEALTH MONITORING

Monitor battery SOH, SOC, temperature, voltage, and operating conditions to maximize battery lifespan and reliability.



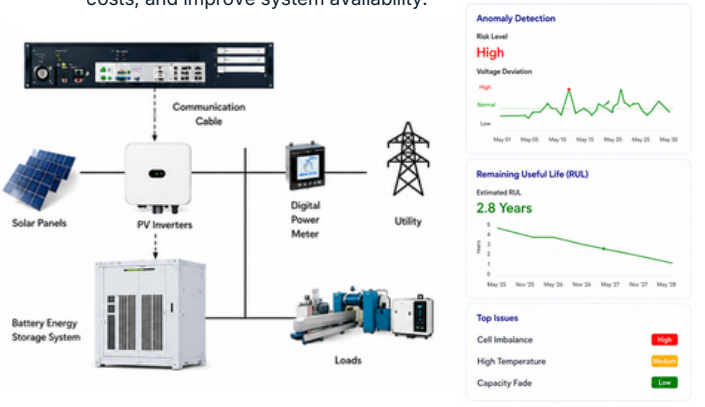
ENERGY STORAGE OPTIMIZATION

Optimize battery charging and discharging using AI-driven control to reduce peak demand, improve efficiency, and lower energy costs.



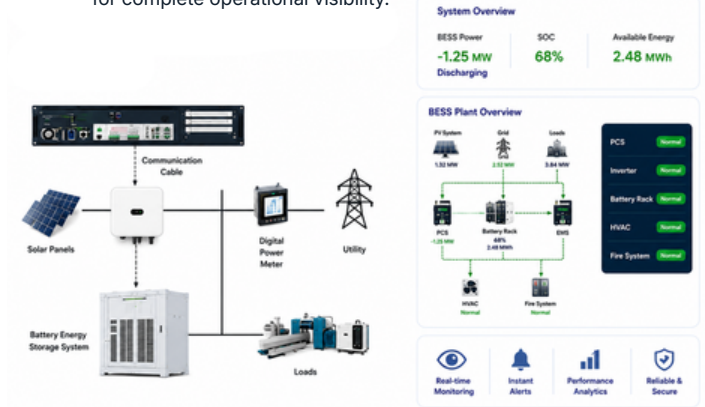
PREDICTIVE BATTERY MAINTENANCE

Detect abnormal battery behavior early using AI analytics to prevent failures, reduce maintenance costs, and improve system availability.



BESS MONITORING PLATFORM

Centralize monitoring of battery systems, PCS, inverters, EMS, HVAC, and sensors in one dashboard for complete operational visibility.

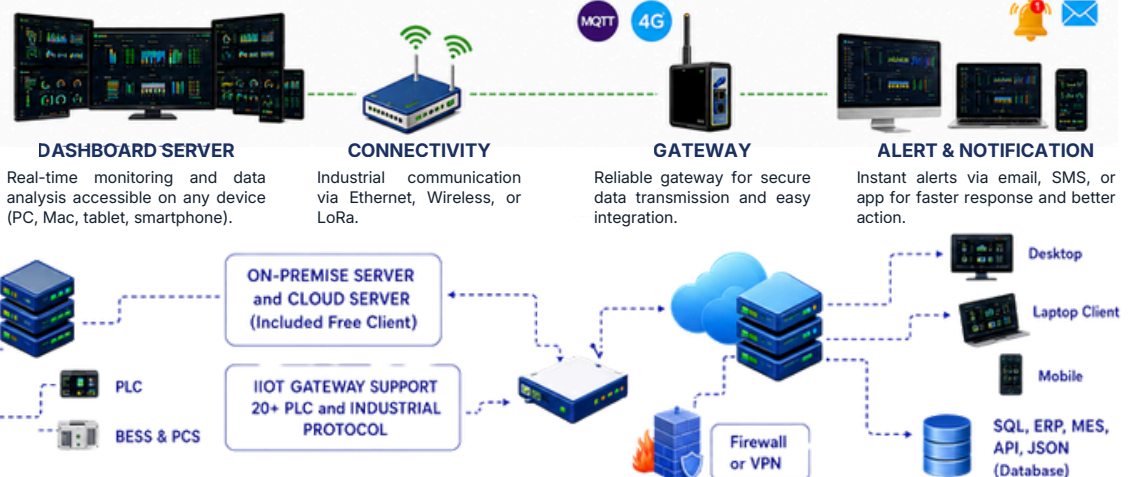


02 WEB-BASED SCADA

Manage real-time Progress and Enhance Productivity

Automation starts small but drives big impact.

Our Solutions gives real-time insights into equipment performance for better decisions and higher productivity.



VIBRATION FOR PREDICTIVE MAINTENANCE

Detect early. Prevent failure. Maximize uptime.



Conveyor Motor



Industrial Blower Fan



Air Compression Motor



Water Pump



Smart Vibration Sensor

Compact • Wireless • Easy to Install



HEALTH MONITORING

Monitor equipment condition in real-time



OPERATION & MAINTENANCE

Simplify maintenance work and reduce downtime



DATA ANALYTICS

Turn data into insights for smarter decisions



PREDICTIVE MAINTENANCE

Predict failures before they happen and extend asset life

SUCCESS CASES

DCS Integration Energy and Safety Management System Web Dashboard Analytic for Factory Centralized.	Dewatering Pump Command Center Integration existing dewatering pump with level and flow using cloud system	OEE (Overall Equipment Effectiveness) EMS (Energy Management System)
Production Line Upgrade Upgrade PLC and SCADA from 4 to 12 production lines.	Machine Digitalization PLC Modification Upgrade SCADA and Modifications	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	Pump Station Command Center Monitoring Pump Station and some sensors which are installed in different locations around the city.	IEMS Ecowatch WAGES Energy Management System
IEMS Ecowatch WAGES Energy Management System	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
Scada Enviroment Monitoring	- Solar Tank Monitoring - SCADA Water Treatment Plan - Automation Maintenance	Scada Filling Machine Upgrade and Migration

PEOPLE | TECHNOLOGY |
A SUSTAINABLE TOMORROW

LET'S BUILD A SMARTER FACTORY TOGETHER.

Turn data into intelligent actions
for a more efficient, reliable,
and sustainable future.



iEMS
Energy
Management
System



OEE
Operational
Excellence



AI Vibration
Predictive
Maintenance



SCADA
Real-time
Monitoring
and Control



AI Vision
Intelligent
Visual
Inspection



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Connect
with Us

Industrial Intelligence for a Sustainable Tomorrow

Efortech delivers integrated industrial digital solutions
to help businesses operate more efficiently, reliably,
and sustainably.



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Technology for better



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