



AIoT Edge Solutions for the future of energy asset management, Protect GO AI

2025.2.14

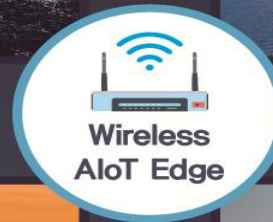
Long-distance wireless AI edge system for managing renewable energy production facilities and infrastructure on-site



Maximizing energy production profitability



Overcoming harsh environmental conditions



Intelligent management of energy facilities and infrastructure based on data



Carbon neutrality and climate change response

Customer problem at a renewable energy on-site location



Time lapse



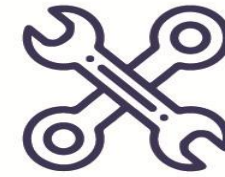
Decreased
equipment
efficiency



Non-operating
equipment



Reduced power
productivity



Increased
maintenance
costs



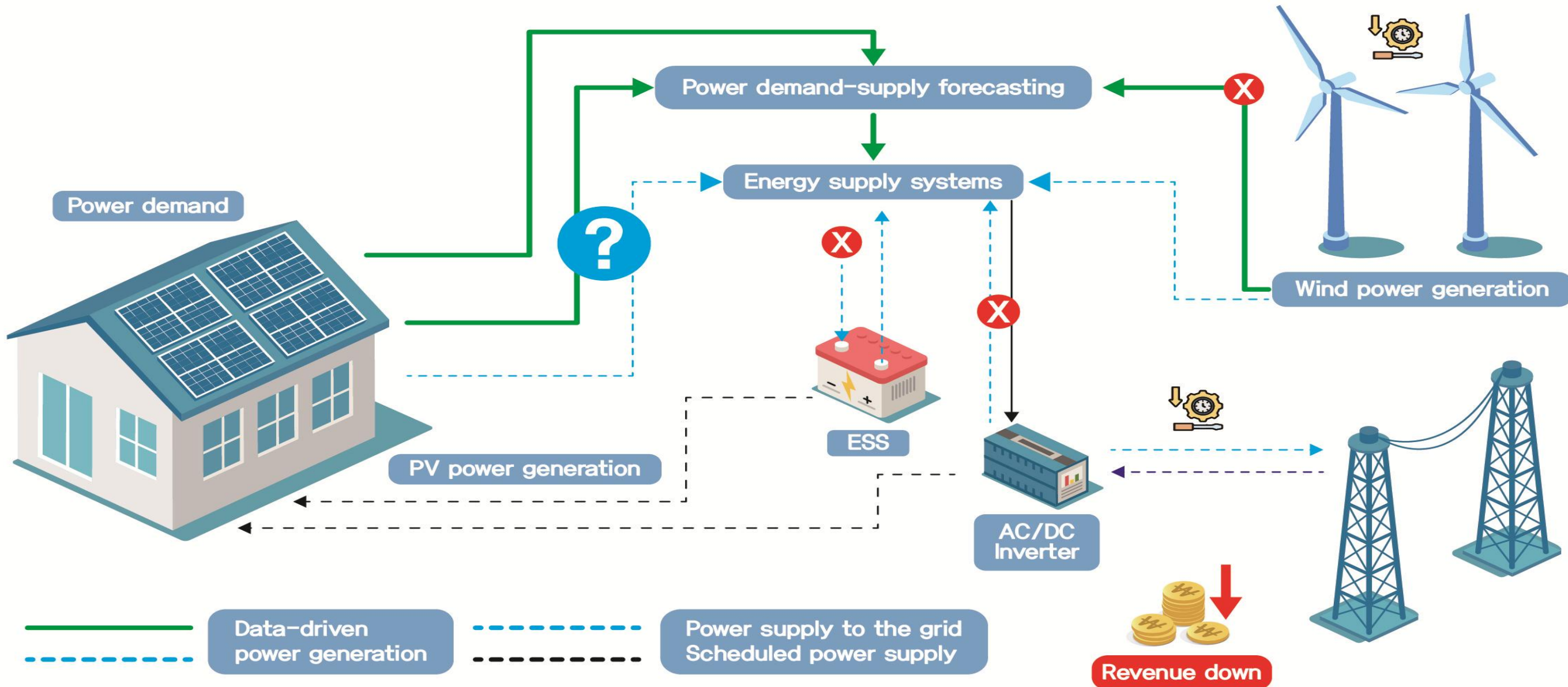
Fire and safety
risks

Decision-making for data-based preventive maintenance



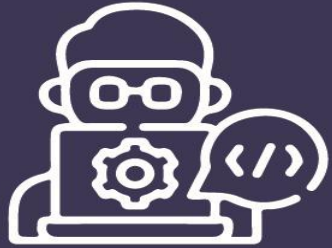
Challenges for Renewable Energy System Operators

As power equipment and infrastructure age, it becomes necessary to enhance facility operability and power productivity to achieve better returns on investment



AIoT Edge cuts development costs and works instantly upon installation

A s - I s



5 Engineers



\$ 100,000



5 Month

T o - B e



1 AIoT Edge



\$ 500



10Min.

Protect GO AI Product Feature

Rapid data processing
with IoT data privacy



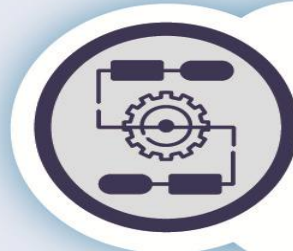
Deep learning and machine learning
for anomaly detection for equipment
and safety



Real-time data processing
every 1sec. for immediate
response on-site



Variety of IoT sensors, IP CAM
interface



No Code User-friendly interface
with workflow setup



Real-time Dashboard
and alarm functions for mobile app.

Protect Go AI Product Type

IoT Gateway



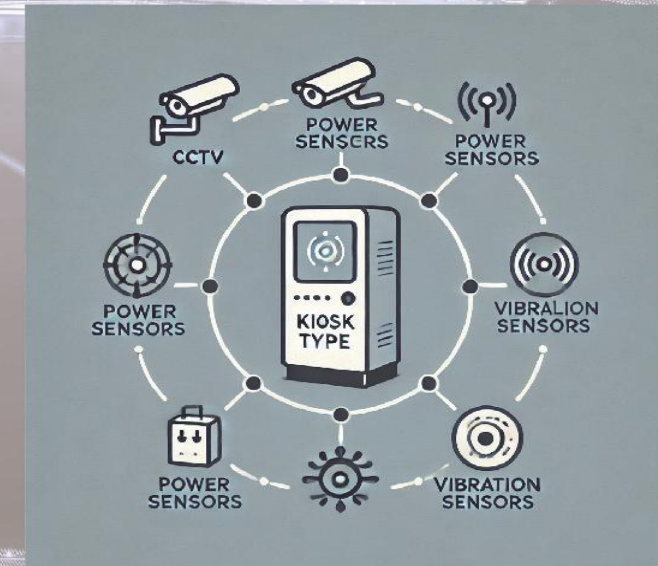
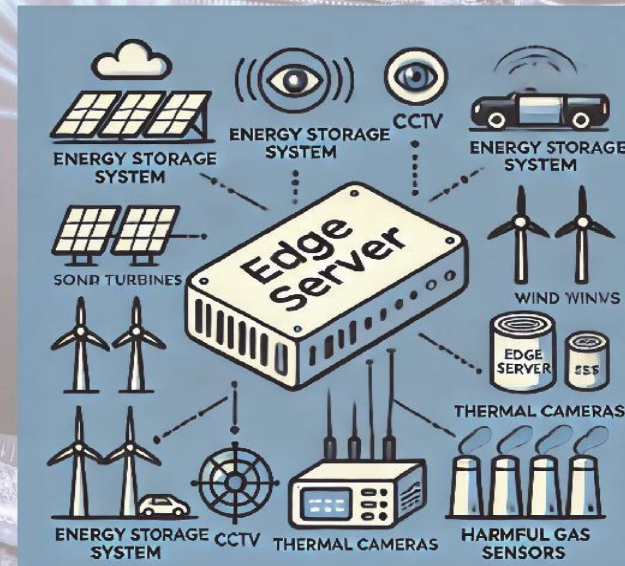
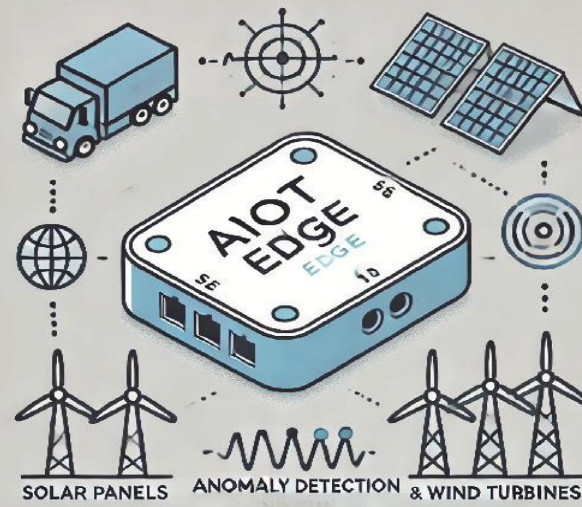
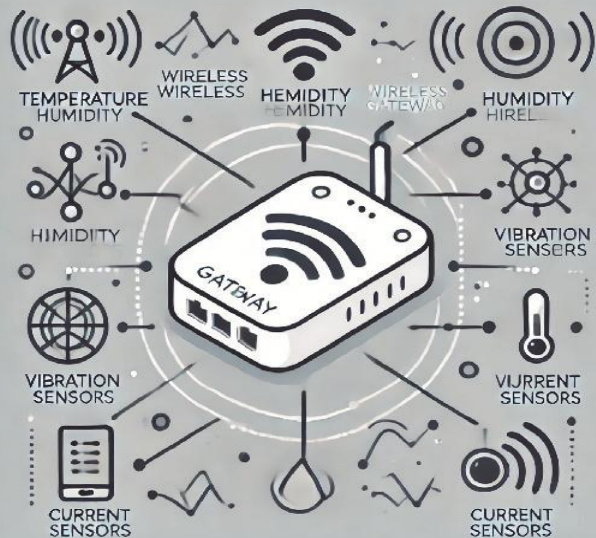
AIoT Edge



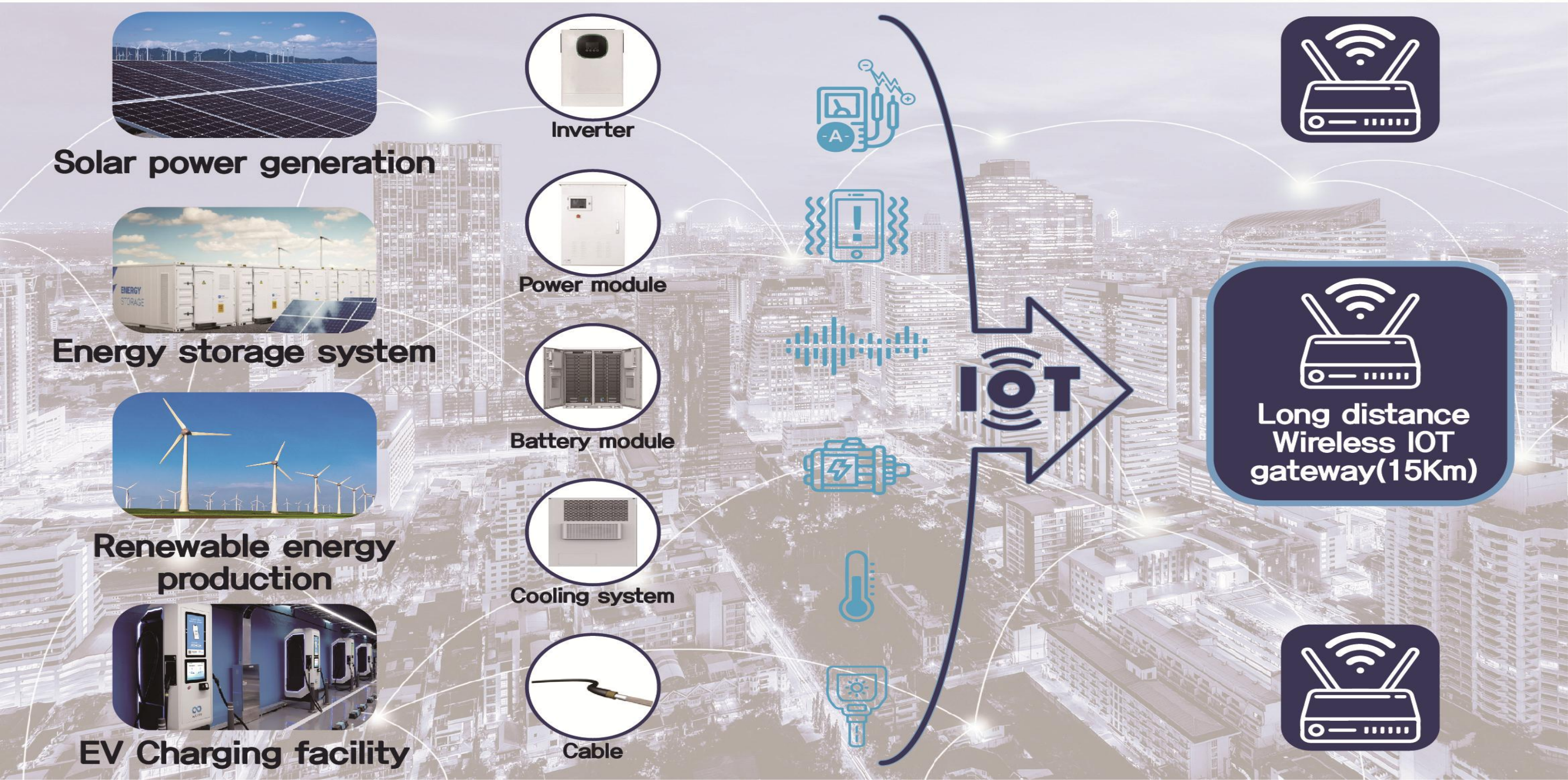
Edge Server



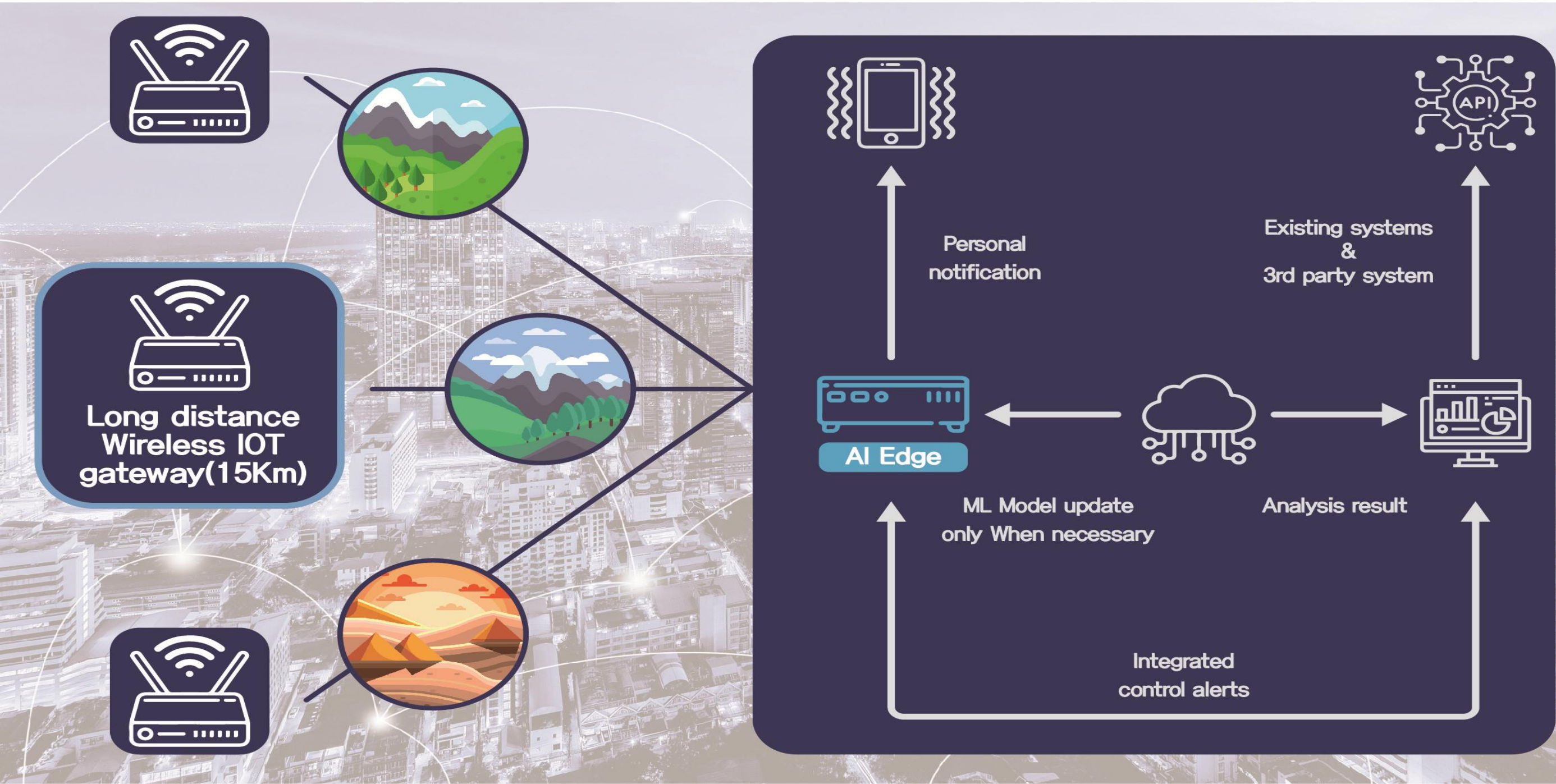
Kiosk



Easily installed in harsh environments through a long distance remote wireless IoT Gateway



AI Edge systems operate without on-site server integration for facility and safety anomaly detection



AIoT-based equipment anomaly and safety systems for high-level manufacturing industries to the renewable energy sector

Manufacturing Facility



Petrochemical



Automotive



Recycling sorting



Ceramic



Chemical



Proven AIoT Technology



Renewable Energy Asset



Inverter



Battery



Power Module



Cooling system

Domestic and global projects

Benefits



Improve Power Productivity

Industrial System



Industrial Energy

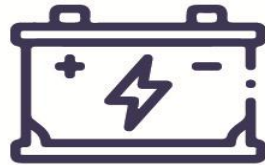


Renewable Energy



Energy Trading

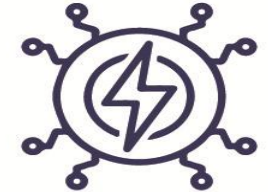
Customer



Power System



O&M



Optimal
Power Trading

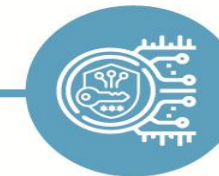
AIoT Standard



IoT Gateway

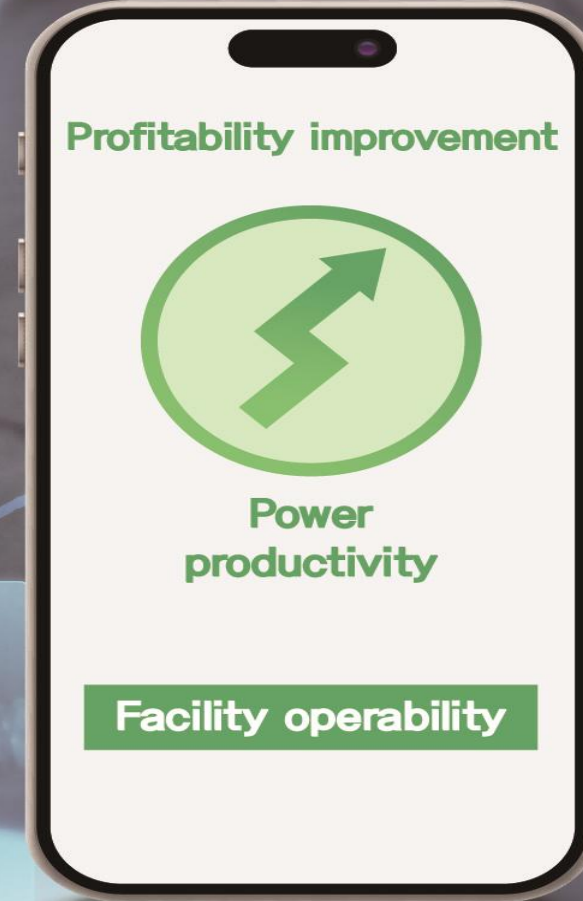
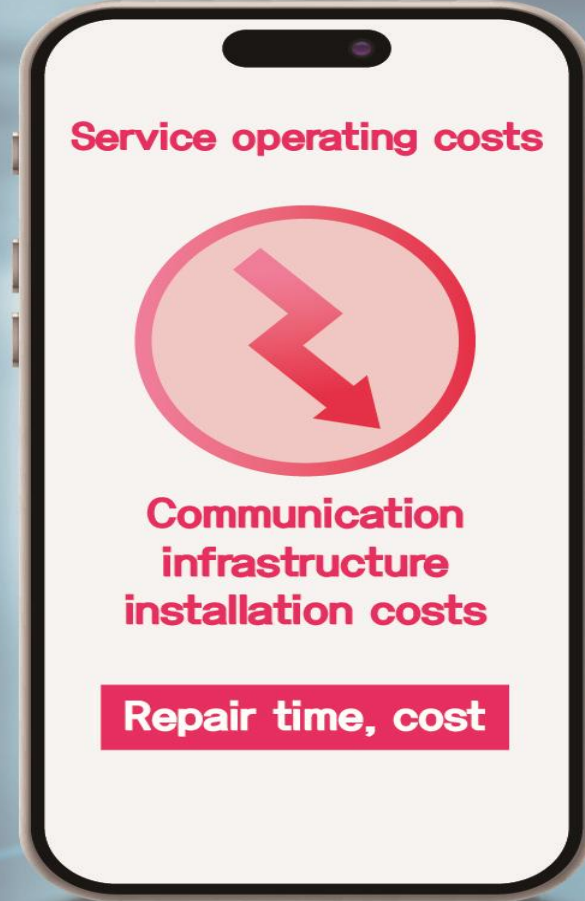


AI Edge



Cloud Service

Differentiation from global competitors



Data-based decision-making for early resolution of on-site issues



Attach AI Edge to existing systems

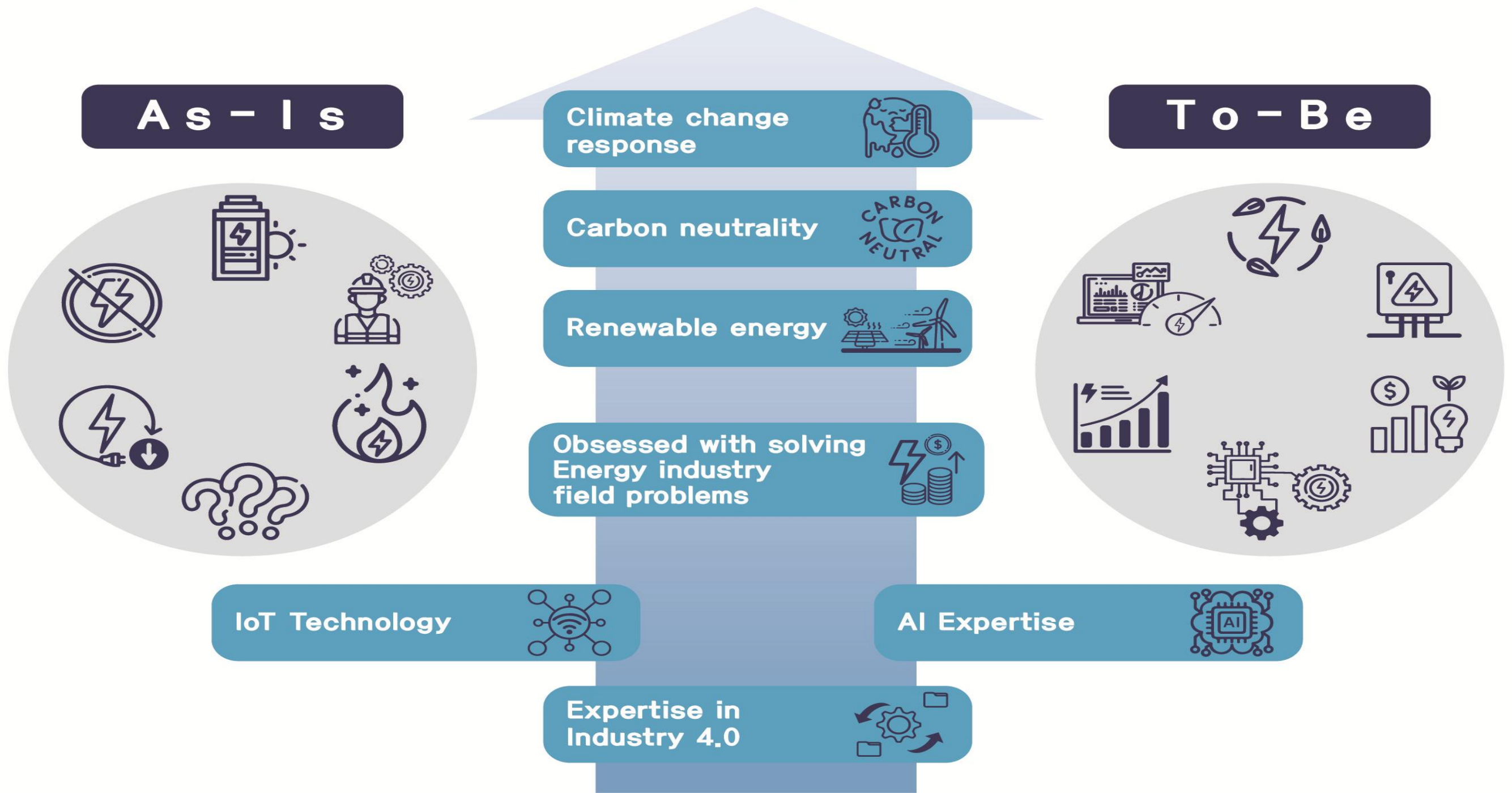


AI Edge work automatically



Choose the necessary Cloud service

Contributing to climate change response and carbon neutrality by utilizing AIoT convergence technology in the renewable energy industry





Leveraging **Wireless AoT Edge System** for **Renewable Energy**

Thank you.