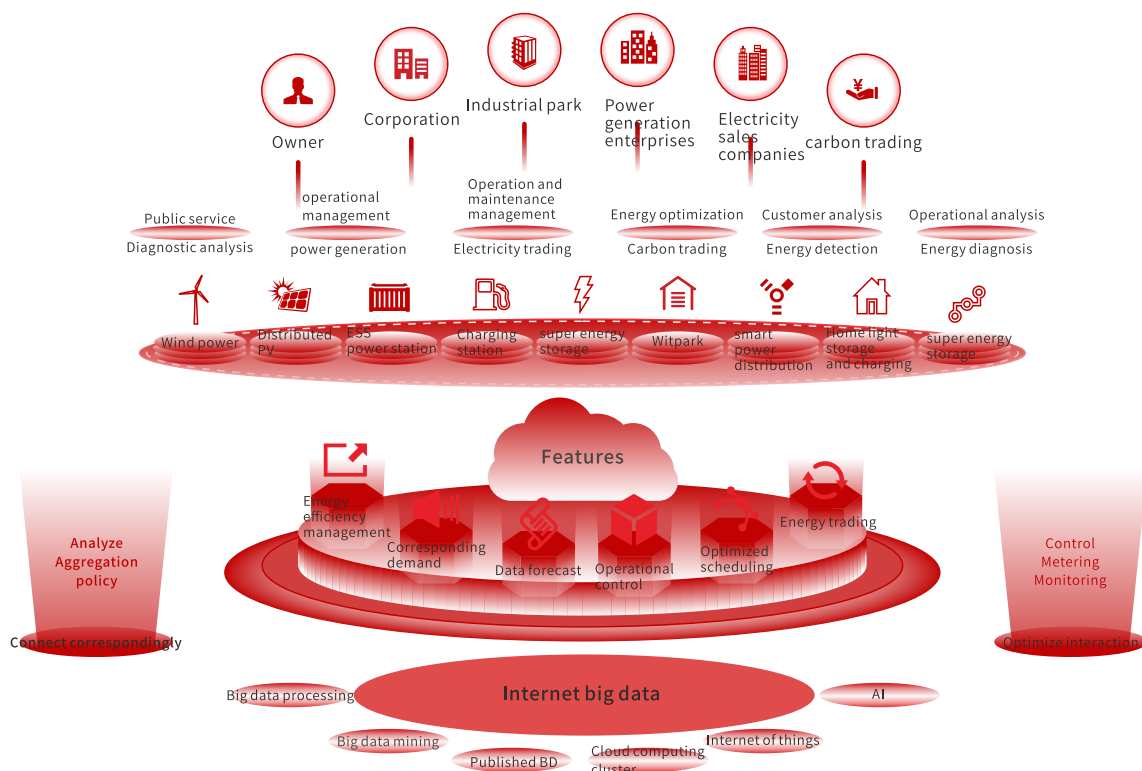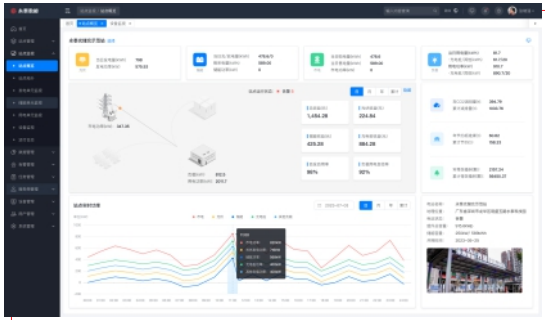# Comprehensive Energy Cloud Platform

YOTAI provides digital solutions including data, algorithm, software and hardware support, thus creating a comprehensive energy "brain" in the field of AI integrated energy, a smart energy management platform. The platform can ensure the safety of energy assets, improve asset utilization efficiency, and reduce asset operation and maintenance costs. Through data integration, power market services such as multi-energy complementation, virtual power plants, and carbon trading can be realized so as to provide continuous value gains for customers.

Owner
Corporation
Industrial park
Power generation enterprises
Electricity sales companies
carbon trading

operational management
Operation and maintenance management
Energy optimization
Customer analysis
Operational analysis

Public service
Diagnostic analysis
power generation
Electricity trading
Carbon trading
Energy detection
Energy diagnosis

Wind power
Distributed PV
ESS power station
Charging station
Super energy storage
Witpark
Smart power distribution
Home-light storage and charging
Super energy storage

Features

Analyze Aggregation policy
Connect correspondingly

Energy efficiency management
Corresponding demand
Data forecast
Operational control
Optimized scheduling
Energy trading

Control Metering Monitoring
Optimize interaction

Big data processing
Internet big data
AI
Big data mining
Published BD
Cloud computing cluster
Internet of things

Model

(Power supply side)   (Power user side)

Load-side adjustable resources

Large industrial users
Commercial building
Industrial park
Microgrid
Charging pile

Distribution testing service
Electric energy implementation test
Electricity cost management
Optimized power management
Electrical equipment management

Electricity management purchase and sales
Auxiliary management consumption
Auxiliary management of spot consumption
Electricity management purchase and sales
Electricity contract trading
Excess consumption trading+ Voluntary green certificate trading

Electricity contract trading
Excess consumption trading+ Voluntary green certificate trading
Traditional power generation users

Power trading center
Medium and long-term trading   spot trading

Carbon emissions trading

Carbon emission trading center
CCER   carbon Pratt &Whitney

Electric energy online monitoring data Participate in demand response

Power demand side management platform
Provincial industry and information technology commission

Carbon emissions trading

Demand response
Multi-functional collaboration
Peak cut
Optimized scheduling
ESS aggregation operation

Post demand response

Grid company

power storage user
1   2   3

Carbon asset management
Auxiliary management of carbon storage trading

New energy operation monitoring
ESS operation monitoring
New energy users
Photovoltaics   Wind energy

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Multi-energy Access and Real-time Monitoring
- Supports connection of various types of energy equipment such as PV power generation equipment, ESS, EV charger, etc., providing one-stop schematic solutions.

Customization and Scalability
- With flexible configuration options, customized functionalities and interfaces can be tailored according to customer needs, and functionality expansion can be scaled through plugins and modules.
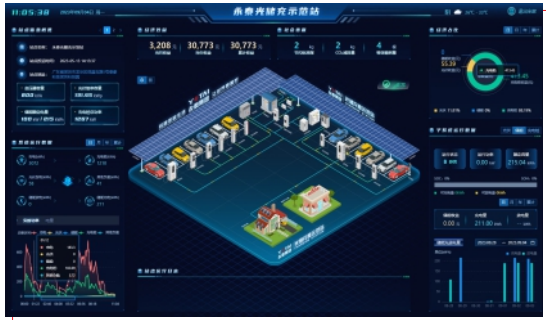
Energy IoT Infrastructure
- Supports connection of different types of energy equipment while compatible with multiple communication protocols to ensure smooth data transmission.
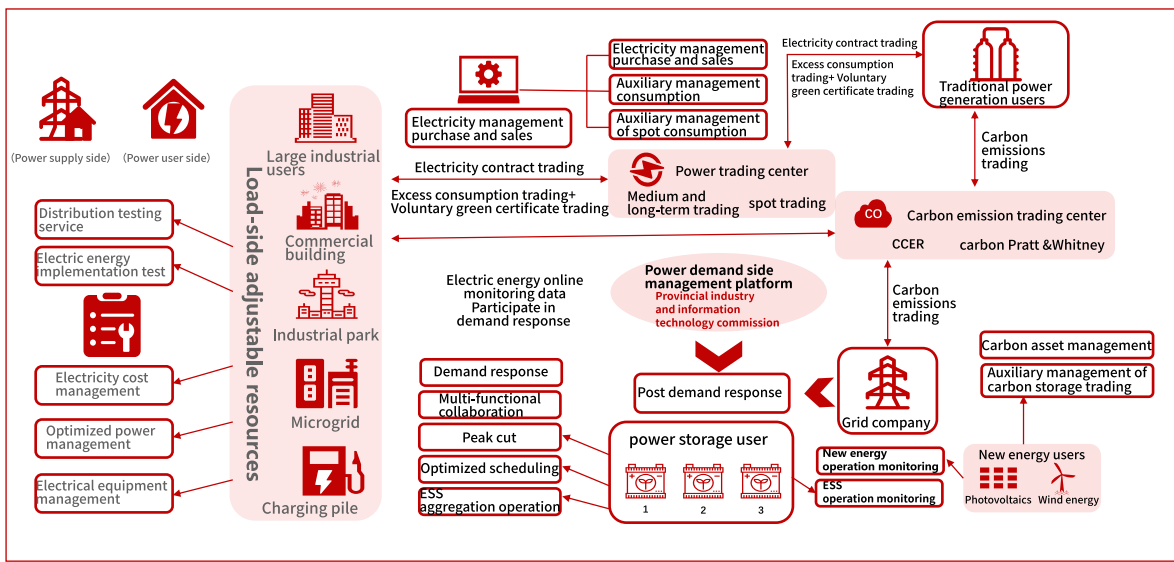

Real-time Operational Data Monitoring
- Provides real-time monitoring of site operation data and generates timely alerts, facilitates work order assignment, ensuring stable operation of equipment and services.

 Overall Monitoring

 All-around Surveillance

 Three-dimensional Display

Comprehensive Energy Cloud Platform

Data Monitoring
Supports centralized monitoring of multi-energy access, intuitively presents the operation status of distributed energy.

Power Prediction
Utilizes both traditional algorithms and smart AI algorithms to predict the output of new energy.

Report Statistics
Stores real-time data, forecast data, and operation logs as needed, automatically generates relevant reports.

Optimized Scheduling
Reasonably arranges the scheduling plans of distributed energy and ESS equipment within the control range, improving the overall economic operation of the system.

Grid Interaction
Utilizes the control characteristics and regulation capabilities of distributed power sources to participate in spot trading in the electricity market, provide auxiliary services, and participate in demand-side response.

Operation and Maintenance
Monitors massive site operation data, issues real-time alerts, assigns work orders, and generates big data information.