



数字化储能引领者



DTEC & Hoenergy Microgrid Solution

About Hoenergy



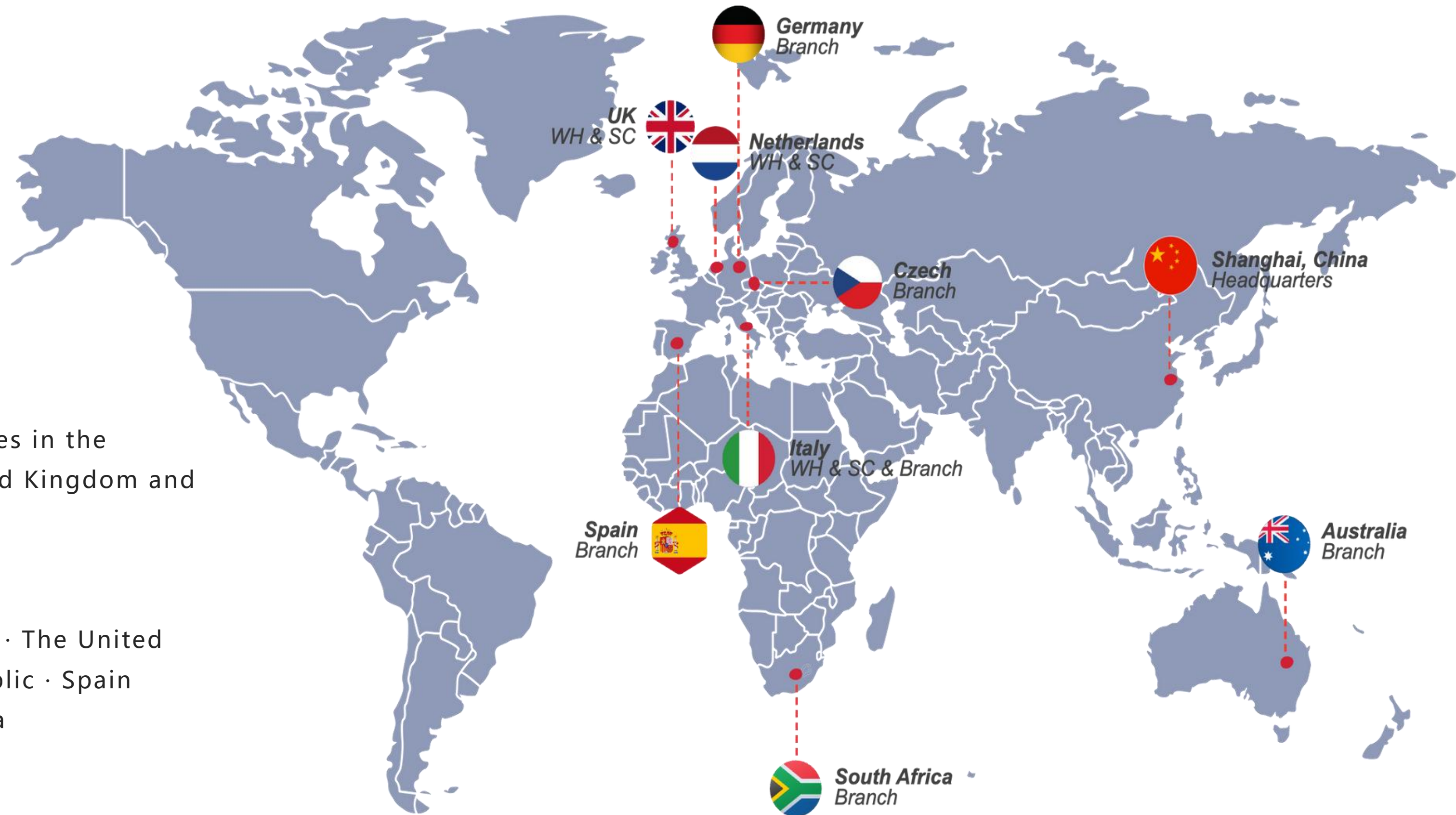


Founded in 2011 and headquartered in Chengdu, China, Dongturbo Electric Company Ltd. specializes in the manufacture and sale of power and electric energy storage equipment. 2021, we established a strategic cooperation with Shanghai Hongzheng to develop and produce industrial and commercial energy storage system equipment, as well as microgrid system solutions to realize energy digitalization and intelligence.

Hoenergy is dedicated to product research and development, production and sales at home and abroad in the field of energy storage. It makes full use of energy digital technologies such as AI intelligence, big data analysis and cloud computing, and **devotes itself to creating full-scenario energy storage products with BMS, PCS, EMS and D-Galaxy cloud platform as the core**, and constructs a cloud-edge-terminal collaborative system. It provides a full-link digital energy storage solution of "product-system-solution-platform" for various scenarios of power source, grid and load, and realizes the ultimate safety and efficiency of energy storage.



Global Layout



Europe:

Warehouses and services in the Netherlands, The United Kingdom and Italy

Branches:

Netherlands · Germany · The United Kingdom · Czech Republic · Spain · South Africa · Australia

Energy storage production base

Automation

The whole production line adopts highly integrated technology and applies a large number of automated equipment, perfectly integrating the whole process.

Information

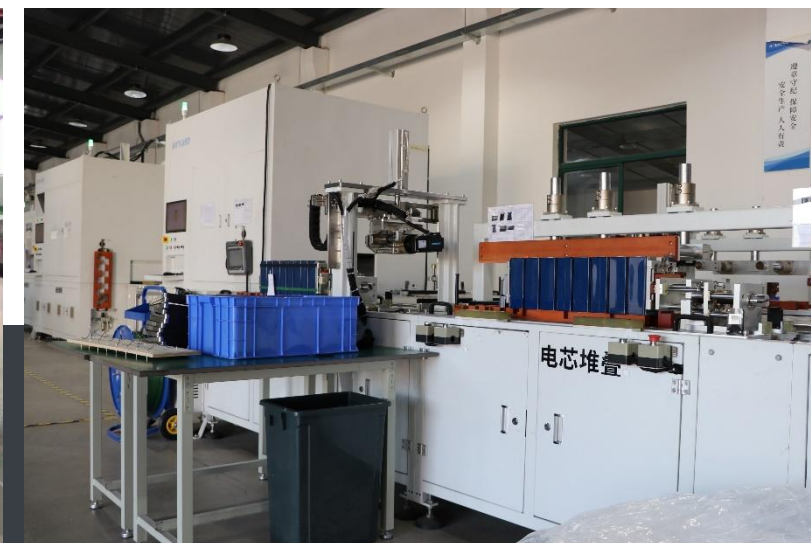
Through information systems such as SAP and MES, the entire production process is connected to achieve comprehensive information management.

Intellectualize

The production process is equipped with intelligent monitoring and detection equipment to track the status of products and production equipment in real time.

Flexibility

Through modular design, the production line can meet the production needs of various products and support combined production of automation and manual work.



- Shanghai 1GWh Residential ESS PACK production line.
- Shanghai The 3GWh Commercial ESS PACK production line
- Songkang 5GWh digital energy storage industrial base (under construction)



Product Certification

Passed CE and UL certifications and etc.



Overseas CE Certification



German VED certification



Solutions



Multi-energy micro-grid ecological integration scene



**Unstable
region grid**



Island power generation



Mines & Oil Plant

Building site



**Community & Farm
off-grid**

Areas of power grid instability

01 Improve the reliability of the energy supply

Microgrids are able to operate independently in the event of a main grid failure, providing uninterrupted power supply to critical facilities such as hospitals, schools, and data centers.

02 Promote the integration of renewable energy sources

Microgrids can integrate solar, wind, and other renewable energy resources, reduce dependence on fossil fuels, and reduce greenhouse gas emissions.

03 Support for both remote and off-grid communities

In remote areas, microgrids provide a cost-effective way to supply power, which may be difficult to access to the main grid because of their geographic location.

01

02

03

04

04 Enhance the resilience of the power grid

Microgrids can quickly restore power supply in natural disasters or other emergencies, reducing the impact of power outages.

05

05 Optimize energy management

Through the intelligent control system, the microgrid can monitor and regulate energy production and consumption in real time, and improve energy efficiency.

06

06 Promote technological innovation and industrial development

The development of the microgrid has driven innovation in related technologies and industries, such as energy storage technologies, power electronics, and advanced management systems.



Island Power Generation



To improve energy self-sufficiency

The island microgrid integrates the island's renewable energy resources, such as solar, wind and tidal energy.

The improvement of economic benefits

Although the initial investment may be high, in the long term, the microgrid can reduce the transportation and use costs of traditional energy sources such as diesel, and improve energy efficiency through peak-valley electricity price differences and demand side management, so as to improve economic benefits.

Promote local economic development and tourism

A stable power supply is an important basis for island economic development and tourism. Microgrids can support business activities, residents and tourist facilities on the islands, attracting more investment and tourists.

Enhance the stability and reliability of the power supply

Microgrids can operate independently in the event of a main grid failure, ensuring the uninterrupted power supply of key facilities and services, and enhancing the disaster resistance and reliability of the power system.

Advanced technology and intelligence

Microgrid adopts advanced power electronics technology, automatic control and information and communication technology to realize optimal energy allocation and intelligent management, and improve the operation efficiency and flexibility of the power grid.

Policy support and incentives

Many countries provide policy support and economic incentives to encourage renewable energy and microgrid development, such as tax incentives, subsidies and financial support, to reduce the difficulty and cost of project implementation.

Mines & Oil Plant

Promote the integration of renewable energy sources

Can be configured with photovoltaic, wind, firewood, energy storage is equal to the integrated micro grid, improve energy self-sufficiency



Improve the reliability of the energy supply

Mines and oil plants need a continuous and stable supply of electricity to ensure the normal operation of production equipment



Support for both remote and off-grid communities

Mines and oil plants are usually geographically remote and do not have access to the grid. Microgrids are flexible in installation, customized schemes on demand, and more operable



Save on energy costs

Off-grid projects can use local renewable energy or other energy resources and reduce energy costs.



Construction Site



Reduce energy costs

Microgrids usually supply power locally, reducing energy losses during long-distance power transmission and improving energy utilization efficiency

Stable Energy Supply

The microgrid can operate independently when the main grid fails, ensuring that the key equipment and production processes of the construction industry are not affected by power outages, and reducing production interruptions and economic losses caused by power

outage

Environmentally friendly and sustainable

It promotes the adoption of more clean energy in the construction industry, reduces reliance on traditional fossil fuels, lowers carbon emissions, and meets environmental protection requirements.

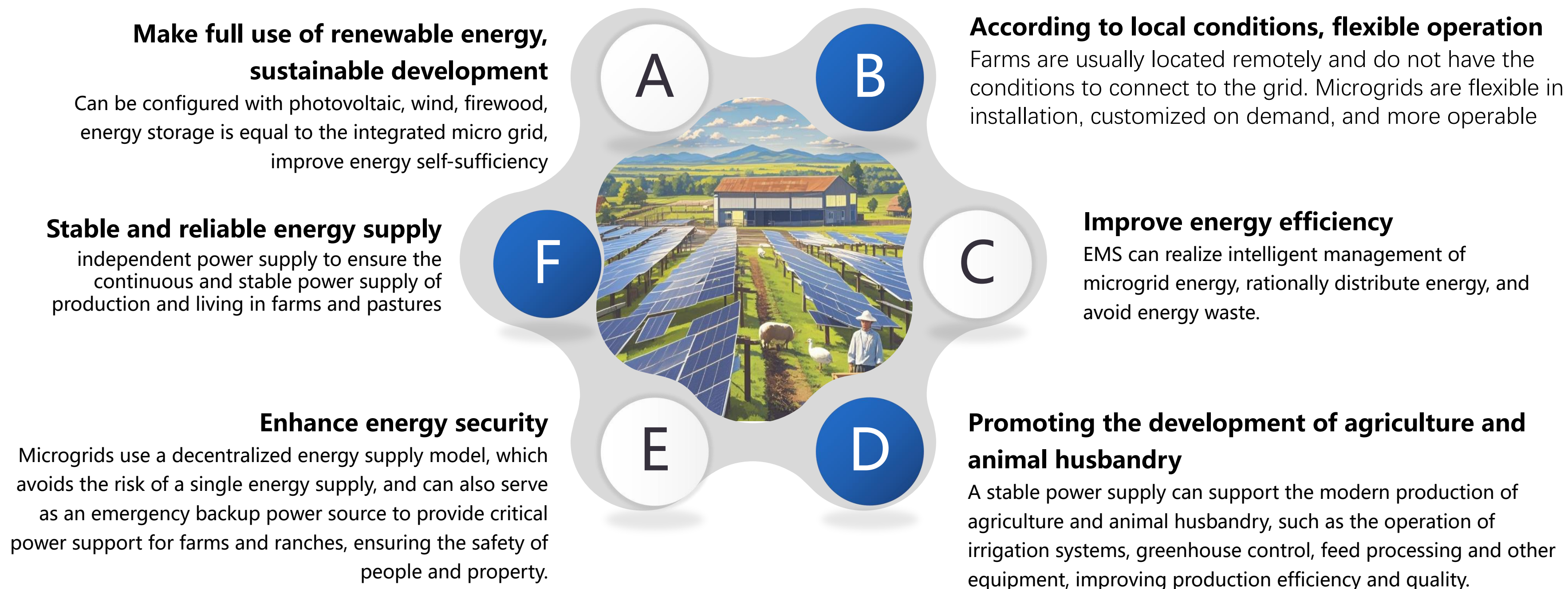
Flexibility and scalability

The microgrid can be customized and expanded according to the specific electricity consumption needs of the construction industry to meet the constantly changing production scale and energy demand. Intelligent operation and maintenance of EMS improves the intelligent level of energy management.

Strengthen power load

Considering factors such as large starting current, power factor and long operating time of equipment (such as cranes, etc.) on construction land, the microgrid can meet the power load requirements of the project site and improve the impact resistance of the load



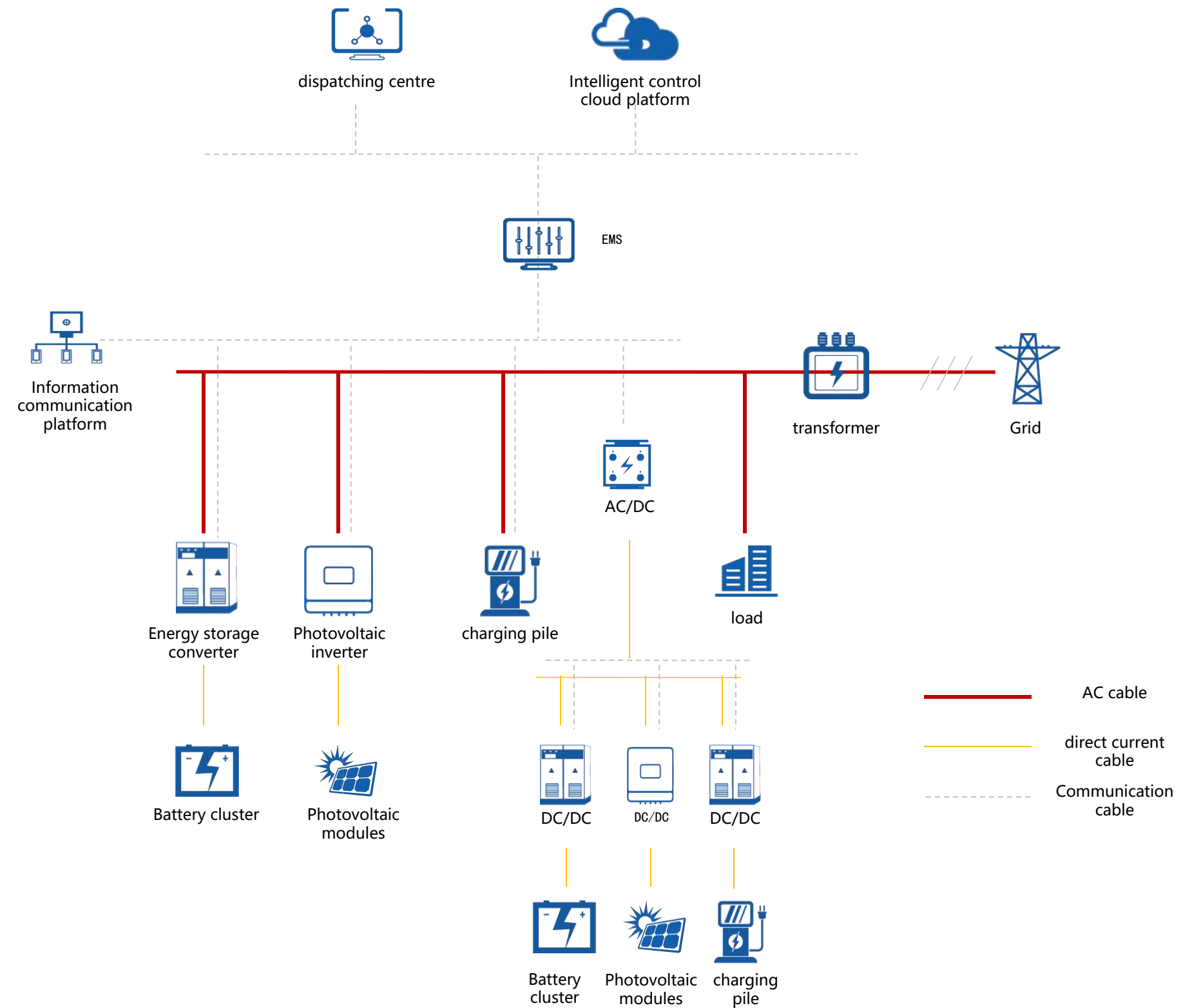
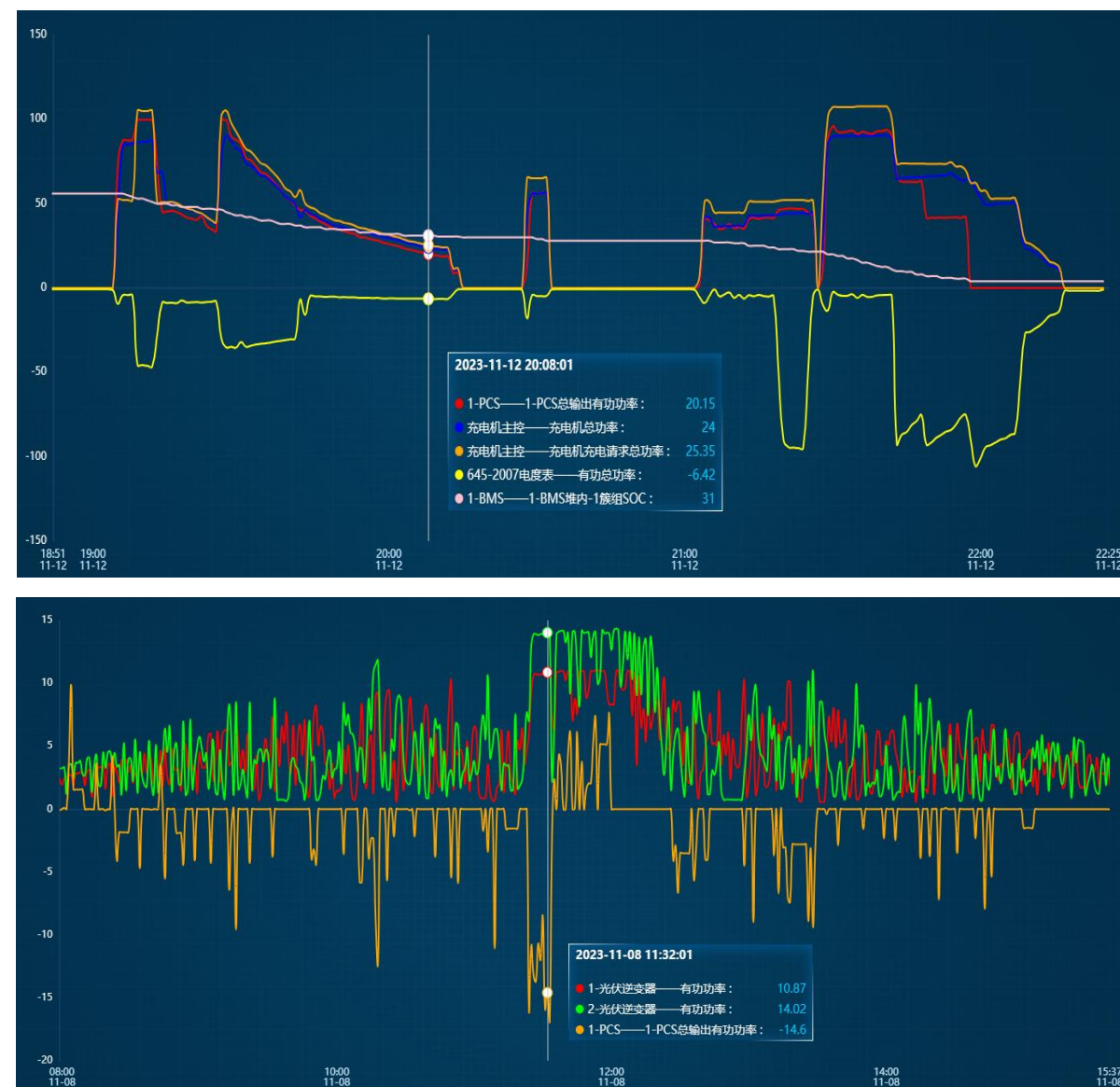


Products and Solutions

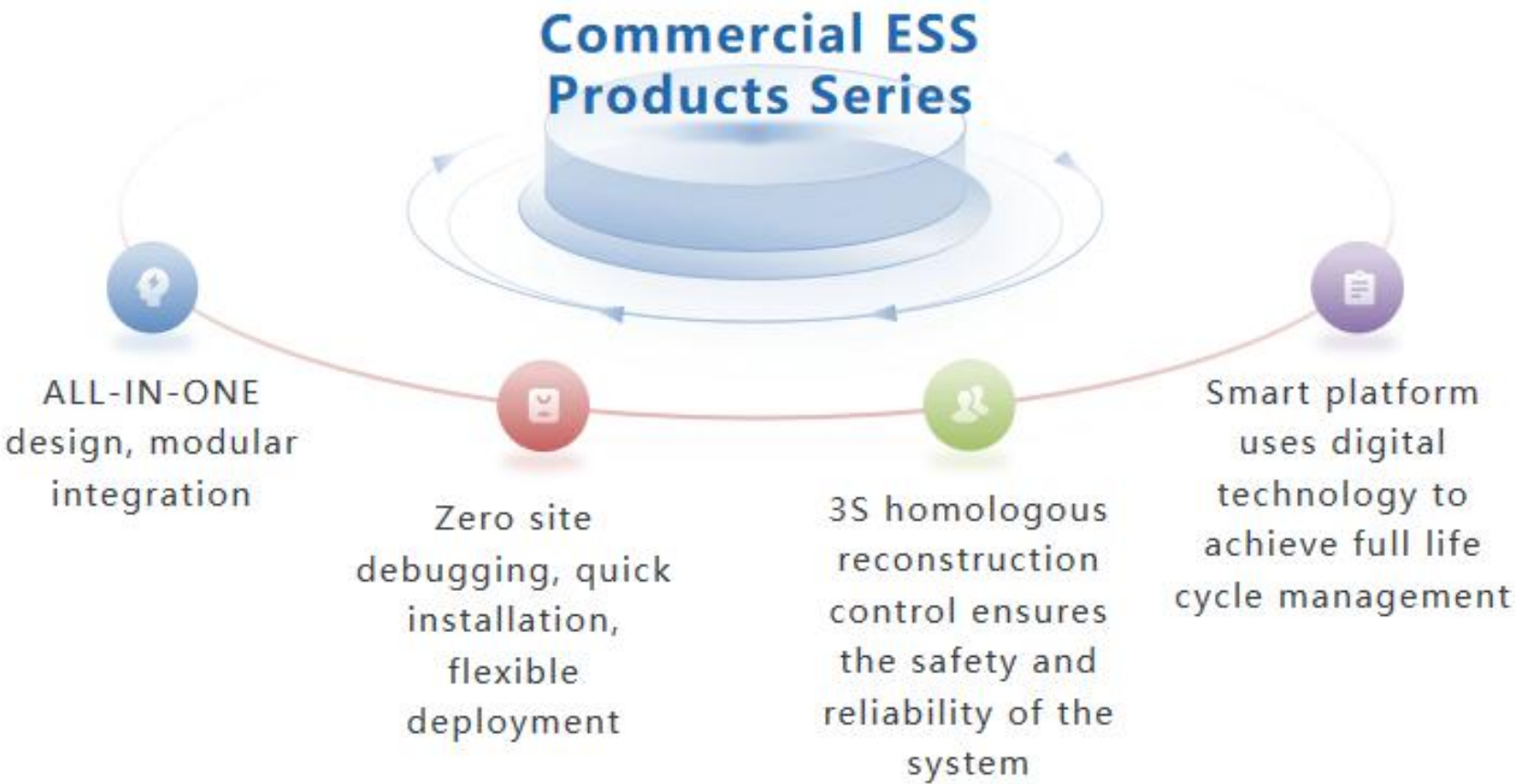


Optical storage and charging micro-grid solution

Real-time ➡ Accurate ➡ Highly efficient



Industrial and commercial energy storage products



EFIS-D Series



EFIS-A Series



Liquid-cooled direct current cabinet

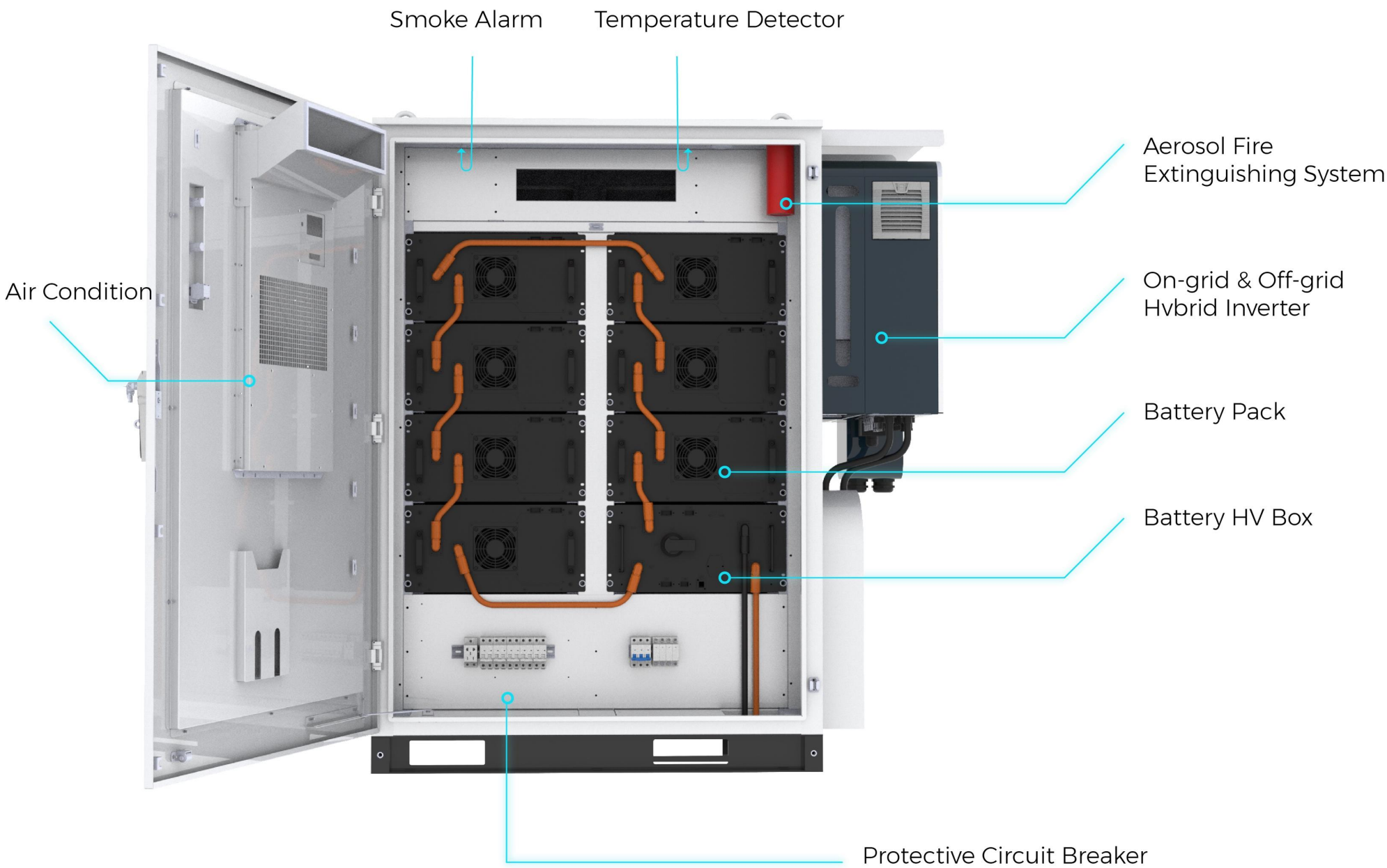


EFIS-D Series Smart PV ESS Cabinet



EFIS-D-W 50/100

Following Hoenergy's fine tradition of "3S homology, full stack self-developed", the perfect combination of photovoltaic hybrid inverter and lithium battery system can solve the three major user pain points of revenue, operation and maintenance, and safety, allowing industrial and commercial users to worry-free storage.

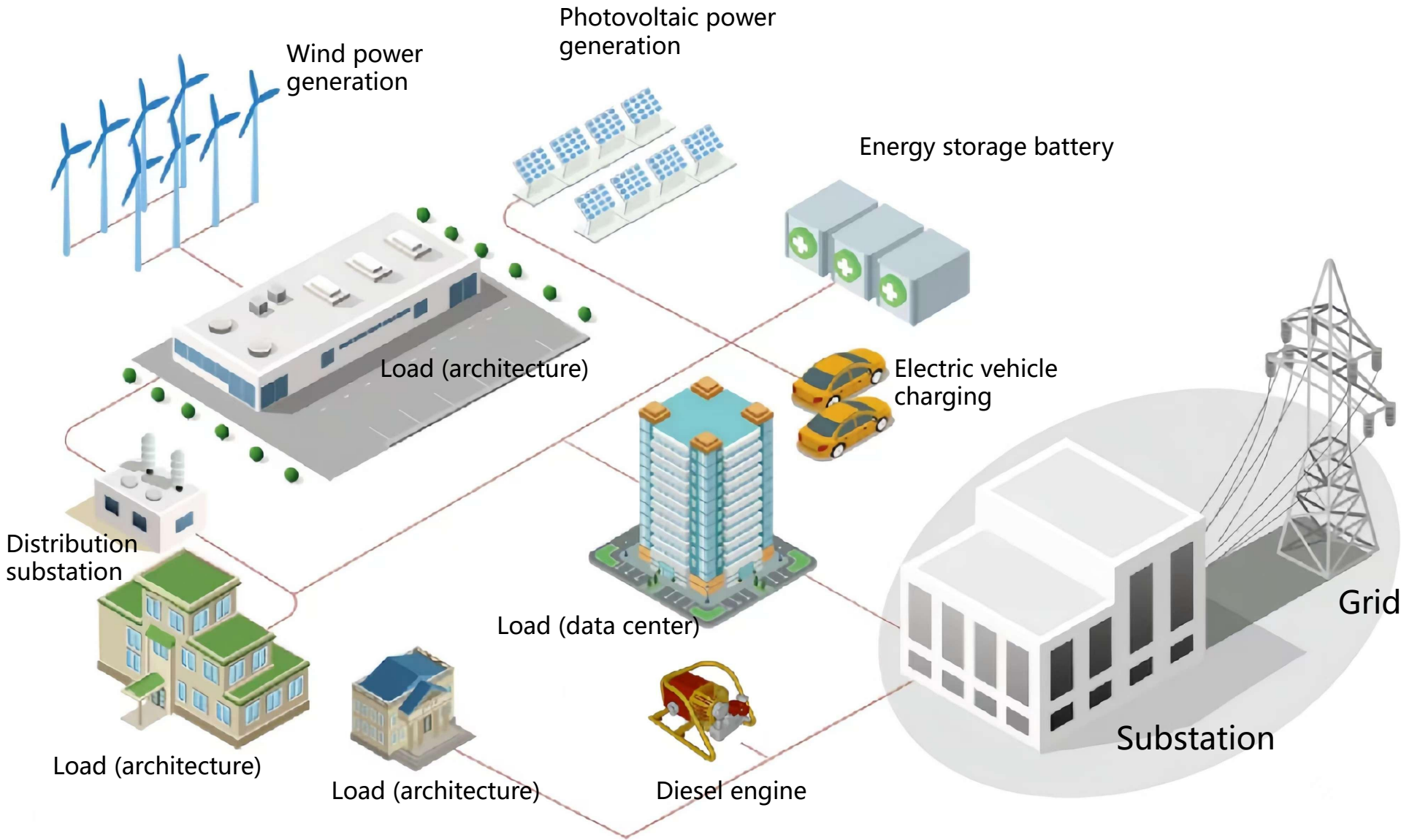


EFIS-A Series 100kW/215kWh AIO ESS Cabinet



EFIS-A-W100/215-AIO

Following Hoenergy's fine tradition of "3S homology, full stack self-developed", the perfect combination of lithium battery systems can solve the three major user pain points of revenue, operation and maintenance, and safety, allowing industrial and commercial users to worry-free storage.



Liquid Cooled BESS Container



BESS-CTN-L3.44/5.01MWh

Following Hoenergy's fine tradition of "3S homology, full stack self-developed", the perfect combination of lithium battery systems can solve the three major user pain points of revenue, operation and maintenance, and safety, allowing industrial and commercial users to worry-free storage.



The EMS control platform



HOENERGY 弘正
HOLD YOUR ENERGY



Dashboard



Web



Mobile

The application of ecology



Centralized control operation and maintenance



Virtual power plant



Energy and carbon management

Data center

Model management

One lake warehouse

Low code service

Calculation engine

Open interface

Station-end EMS, Gateway, Communication



Energy station



PV



Energy storage



Power distribution



Charging Equipment



Energy-consuming equipment such as water, electricity, gas

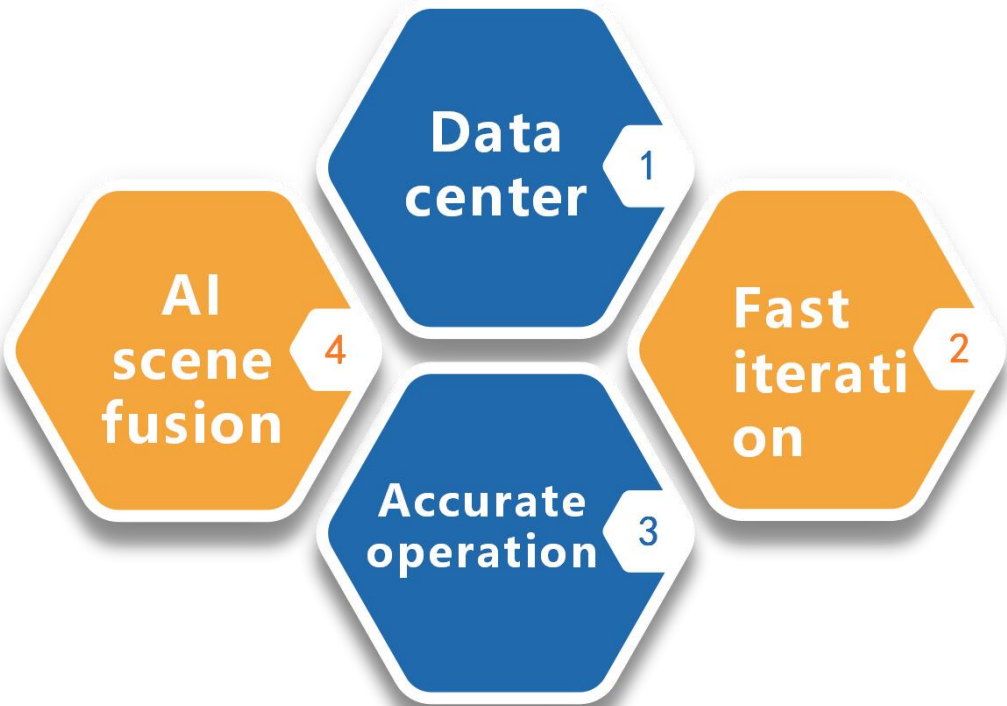


Heat Meters

3rd System

ERP

MES



EMS Platform



Smart energy storage management and control platform



Smart energy centralized control platform



Smart energy and carbon service platform



Digital twin platform



Virtual power plant platform



Smart home storage platform



Application Case



Application case



Shanghai Capacity--1000kW/2788.5kWh



Shanghai Capacity--500kW/1MWh



Johannesburg, South Africa 250kW / 549kWh



Shandong · Jining 100kW/200.7kWh



Hong Kong 100kW / 215kWh



Zimbabwe Capacity--1000kW / 1290kWh



**Build a digital energy storage solution
provider with global influence**

