



# MILESTONE

[www.pauway.cn](http://www.pauway.cn)

## 2023

The first overseas 17.2MW gas power plant was delivered, making it the partner with the fastest growth globally for MWM

## 2022

Completed the PV-Storage-Diesel generators- charging hybrid energy demonstration project

## 2021

Layout of energy storage sector

## 2020

Entered the standby power plant for semiconductor manufacturing

## 2019

Entered the standby power plant for silicon material manufacturing

## 2018

Delivered 200MW power plant overseas

## 2017

Entered clean energy and completed the first application of polar scenarios

## 2016

Entered military island power plants

## 2015

The completion of the Pauway R&D and manufacturing base has enhanced its influence in the industry

## 2014

Entered the EPC of power plants

## 2013

Build Pauway R&D and manufacturing base in Tianjin

## 2012

Entered peaking power plants

## 2010

Entered IDC backup power plant

## 2008

Establish HK company to expand import and export as well as offshore trade

## 2003

Pauway was established and entered the African market

### BEIJING PAUWAY ENERGY TECHNOLOGY CO.,LTD

**ADD** A-211, Huaye International, No. 39, Middle East Fourth-Ring Road, Chaoyang District, Beijing

Pauway R & D and Manufacturing Base, No. 130, Yongjin Road, High-end Equipment Manufacturing Industrial Park, Beichen District, Tianjin

**TEL** +86 22 86859198



WECHAT



DOUYIN



Paramount for a Lit World

# POWER GENERATION



INTEGRATE HYBRID ENERGY SYSTEM SOLUTIONS

Over the past twenty years, Pauway, with its remarkable internal combustion engine power generation systems, has been providing services to customers in over 80 countries and regions. This holds true especially in regions like Africa, South America, and Asia. Be it in bustling metropolises or in remote mining areas, whether it's any corner of the known world or the farthest frontiers that humanity can reach, we are capable of offering you the necessary power support.

**WE REACH ANYWHERE**  
SERVED **80+**  
COUNTRIES AND REGIONS





PLEASE SELECT THE APPLICATION SCENARIOS YOU ARE INTERESTED IN SO THAT WE CAN PROVIDE YOU WITH CORRESPONDING SOLUTIONS.



# HARD WORK FOR EVERY kWh

⊙ **GAS GENERATOR SETS**  
200 kW  
|  
4500 kW

Pauway Energy is dedicated to furnishing reliable and efficient electricity by swiftly deploying customized and comprehensive power solutions across the globe. Leveraging advanced power generation technologies, all-round operation, maintenance, and repair services, along with flexible commercial terms, Boguan Energy assists customers in realizing both rapidly deployable temporary power and long-term power supply.

⊙ **DIESEL GENERATOR SETS**  
8 kW  
|  
3000 kW

Since 2003, focusing on the markets in Africa, South America and Asia, it has been providing power solutions to utility and industrial customers around the world in more than 80 countries.

⊙ **HFO GENERATOR SETS**  
1000 kW  
|  
18000 kW

Pauway have passed the ISO9001, ISO14001, and ISO45001 systems and meet the requirements of CE and TLC certifications. This ensures dual guarantees of excellent quality and service for our customers.



PAGE.

**05**

REGIONAL  
POWER  
GRID

PAGE.

**07**

DATA  
CENTER

PAGE.

**09**

MINING &  
SMELTING

PAGE.

**11**

CEMENT &  
BUILDING  
MATERIALS

PAGE.

**12**

PETROCHEMICAL  
INDUSTRY

PAGE.

**13**

ELECTRONICS  
MANUFACTURING

PAGE.

**14**

PUBLIC  
UTILITIES

PAGE.

**15**

BUILDING

PAGE.

**16**

AGRICULTURAL  
& BREEDING

PAGE.

**17**

INDUSTRIAL  
BIOGAS

PAGE.

**18**

THE  
POLAR

PAGE.

**19**

GAS & HYBRID  
ENERGY SOLUTIONS

# REGIONAL POWER GRID

Be fully prepared for the grid demands and emergencies that may occur at any time



Pauway's highly efficient power stations boast outstanding power generation capabilities. In specific areas, they can achieve an output capacity of over 200MW for the power stations, which is more than enough to meet most of the electricity demands. Meanwhile, the various fuel options it employs, such as natural gas, heavy oil, and light diesel, etc., not only guarantee the diversity and flexibility of fuels but also improve the efficiency of energy utilization.

The output voltage levels of Pauway's reciprocating generator set power stations are diverse, which can meet the needs of different users. Whether it is 6.3KV, 10.5KV or 13.8KV, they can be easily achieved. Special voltage levels can also be customized, demonstrating a deep understanding of and flexible response to users' needs.

Pauway provides EPC (Engineering, Procurement, Construction) power plant project execution services to ensure that the entire process of power plant design, procurement and construction is professionally controlled. The one-stop service model greatly simplifies the user's operation process and improves the overall efficiency of the project. The Pauway dual-fuel option is another option for owners. This approach not only increases the operational flexibility of the power plant, but also increases its ability to respond to fuel supply problems. This is of great significance to ensure the stability of power supply. Make your power plant more flexible and responsive to a wide range of fuel market fluctuations.



Pauway provides overall power plant operation and maintenance services, preventive maintenance personnel training, and complete operator services, all of which provide a solid guarantee for users' power supply. A full range of services allow users to focus on their core business without worries.



# MINING & SMELTING

Enable your business operations  
to keep running continuously

In the mining industry, a stable and reliable power supply is the key to ensuring the continuous operation of business. The Pauway generating sets, with their outstanding performance and excellent adaptability, have become the ideal choice for the mining industry.

- **Strong adaptability to the environment**

In light of diverse environmental circumstances, via customized design approaches, Pauway generating sets are capable of fulfilling the prerequisites for stable operation within extreme environments, including but not limited to high altitudes, low temperatures, high temperatures, and maritime climates.

- **Sturdy & durable**

Through high strength and special optimized design, Pauway generator sets have the characteristics of corrosion resistance, wear resistance, dust resistance, etc., to ensure the transportation and use guarantee under harsh environmental conditions.

- **High security**

Pauway generating sets adopt reliable and safe design concepts in terms of the selection of raw materials, manufacturing processes, and design specifications. The products meet the requirements of the European CE safety standards.

- **Usability**

Comprehensive technical solutions and detailed product information, along with a sound after-sales service system, enable rapid responses even in the face of unexpected situations, ensuring the continuous operation of the business.

- **Stability**

Optimized system design, reliable components, and strict manufacturing process provide continuous and stable power support.

- **Redundant/scalable**

For the purpose of fulfilling the users' needs for capacity alterations, the system has reserved module interfaces accordingly.

# CEMENT & BUILDING MATERIALS



Inject stable electricity into the cement and building materials production lines to seize the market opportunities in advance



A customized and reliable power solution that meets the requirements of the cement and building materials industry for the stability and reliability of power supply.

Pauway adopts a dual power energy guarantee. It not only provides traditional fuel energy power stations but also offers solutions for gas generator set power stations, effectively reducing operating costs and environmental impacts. With a single-unit power exceeding 4MW, it possesses outstanding product reliability, advanced manufacturing processes, and a strict quality control system, enabling it to operate stably even in harsh working environments. Through optimized design, the application of advanced energy-saving technologies, and the provision of rapid response and efficient services, it ensures that the production line always maintains high-efficiency operation.

# PETROCHEMICAL INDUSTRY

Reliable guarantee & Stable support

In the petroleum and chemical industries, stable power supply can be provided for the extraction, processing, transportation, and refining of petroleum and natural gas. When the power grid experiences a power outage or voltage instability, Pauway generating sets can be quickly started up to ensure the continuous operation of the production line, prevent production losses due to power outages, and ensure the normal operation of petrochemical production.

Pauway can simultaneously utilize the associated gas produced during the crude oil extraction process for power generation. It supplies electricity to environmental protection facilities like sewage treatment equipment and flue gas purification systems to assist in waste treatment and environmental protection. Its operating costs are relatively low, which improves economic efficiency. The whole system has a high level of reliability and durability, enabling it to operate for a long time in harsh industrial environments and provide a reliable power guarantee.



# ELECTRONICS MANUFACTURING

## Comprehensive preparation just for your entrustment

The semiconductor manufacturing process demands extremely high stability of electricity.

If there is a power outage or malfunction in the power grid, it may lead to problems such as equipment shutdown and raw material waste. Pauway generating sets can start up quickly and supply electricity in such situations, reducing production losses. During the electronics manufacturing process, the stability, quality, and effectiveness of electricity are ensured.

Backup Power and Temporary Power Supply: Provide emergency power support in the event of a power outage or power failure in the power grid to ensure the continuous progress of production, research and development, and other work.

Power Supply for Precision Equipment: Our generating sets can provide high-quality power output to meet the power requirements of these equipment, ensuring their normal operation and prolonging their service life.

Clean energy power generation: With the continuous development of new energy technology, more and more enterprises in the electronics industry have begun to adopt clean energy power generation technology, and our natural gas CHP cogeneration system can provide clean electricity while generating the steam or hot water you need, with a theoretical efficiency of more than 85%.

Power Quality Control: Our generating sets can achieve precise control and optimization of power quality by being equipped with advanced power electronic devices and control systems, meeting the high requirements of the electronics industry for power quality.



# PUBLIC UTILITIES

## Pauway has unique solutions in garbage disposal, which can help you generate continuous profits while dealing with garbage

The Pauway biogas generator sets are engineered for the purpose of gathering, purifying, and harnessing the combustible gases that are generated from waste materials. By doing so, they are capable of generating dependable electric power and heat energy, thereby enhancing the comprehensive utilization efficiency of energy resources and mitigating the adverse impacts on the environment.

Subsequent to the collection and production of methane gas by means of modern waste treatment techniques, the Pauway gas-fired generator sets, via intelligent programmable software control systems, are capable of fulfilling the on-site electricity requirements. Simultaneously, they can be integrated into the local power grid, thereby continuously reaping financial benefits.



# BUILDING



## Reliable power supply underpins every building in sight

The Pauway CCHP system (Combined Cooling, Heating and Power) is capable of not only furnishing the electrical power requisite for meeting the building loads but also of recuperating thermal energy for the purpose of providing heating to the facilities. This system thereby ensures the continuity of the power supply and concomitantly effects a reduction in the operational expenses.

Pauway fuel generators are capable of providing high fuel efficiency and incurring relatively low life-cycle costs. They can satisfy the electricity requirements of buildings and contribute to the reduction of costs.

Service support is furnished on a continuous basis to uphold an outstanding level of power generation efficiency, thereby affording greater peace of mind throughout the operation process.

# AGRICULTURAL & BREEDING

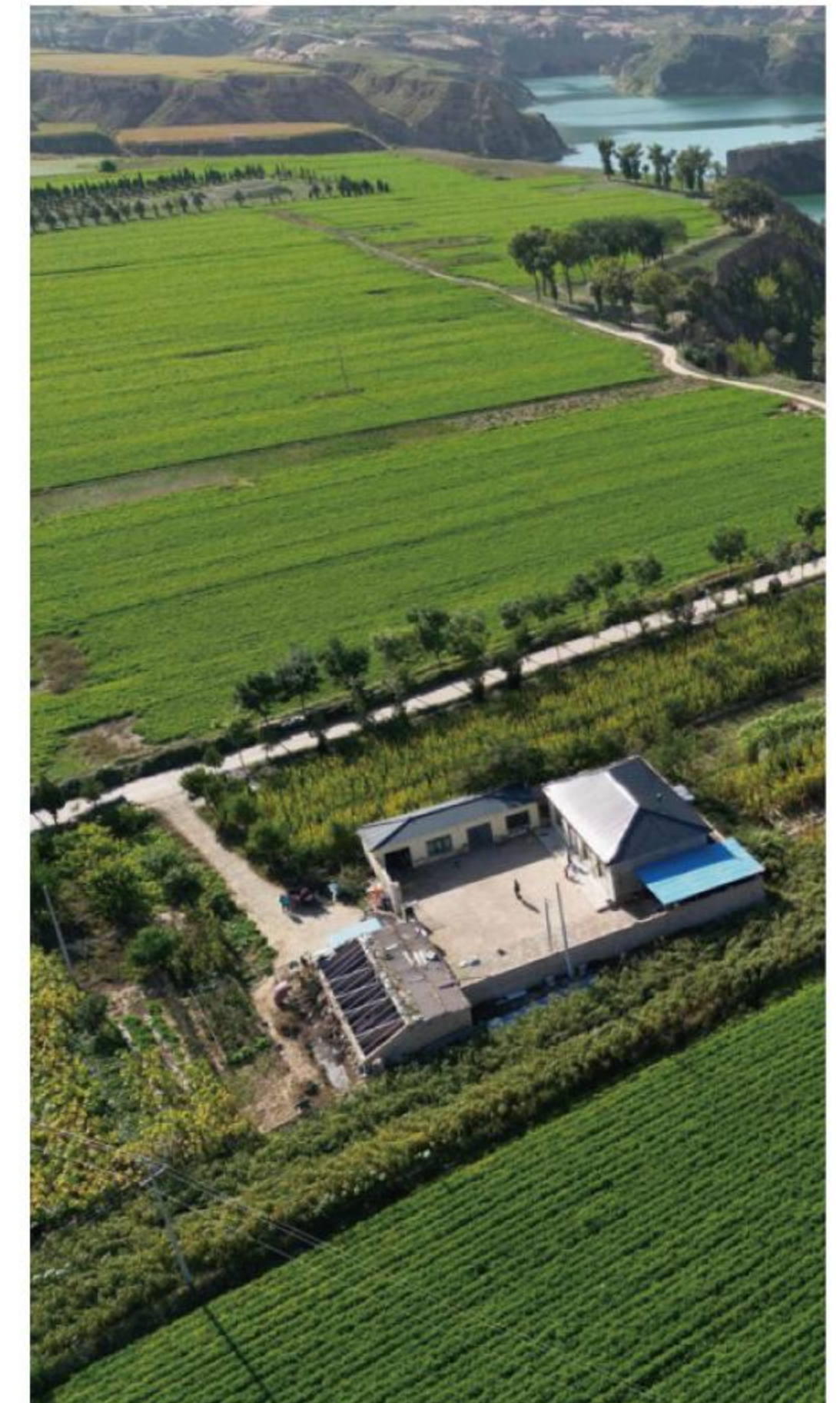
## Ensure the stability of the breeding environment and enhance the efficiency and quality of breeding

That which was formerly considered as waste is now regarded as a fuel conducive to cost savings.

In the agricultural production process, the biogas generated from organic waste is used as fuel for the Pauway gas generator set, turning it into electricity and heat at almost zero cost and reducing environmental pollution.

While satisfying the normal production and operation of the farm, you can choose to connect with the local power grid and obtain relevant policy support and subsidies.

Pauway fuel generator sets can maintain smooth farm operations during power outages and avoid major losses.



# INDUSTRIAL BIOGAS

## ADVANTAGES:



Energy Saving And Emission Reduction



Stable Power Supply



Improve Energy Efficiency



Reduce Operating Costs

### Comprehensive utilization, energy conservation and emission reduction

Industrial biogas originates from industrial processes, in these processes, rich organic wastes will be formed, which will eventually be converted into biogas, which will be used to generate electricity through gas generator sets, forming a virtuous cycle of waste treatment and energy production, and promoting the development of circular economy; Pauway biogas generator sets are designed to utilize biogas to maximize long-term cost savings and environmental benefits; At the same time, it is used as a backup power source in the event of a failure or instability of the external power grid to ensure the continuity and stability of industrial production.



# THE POLAR

## The beginning is a journey The journey never ends

With the launch of China's 39th Antarctic expedition, the Pauway generator set system power plant also embarked on a voyage to the South Pole with the Snow Dragon.

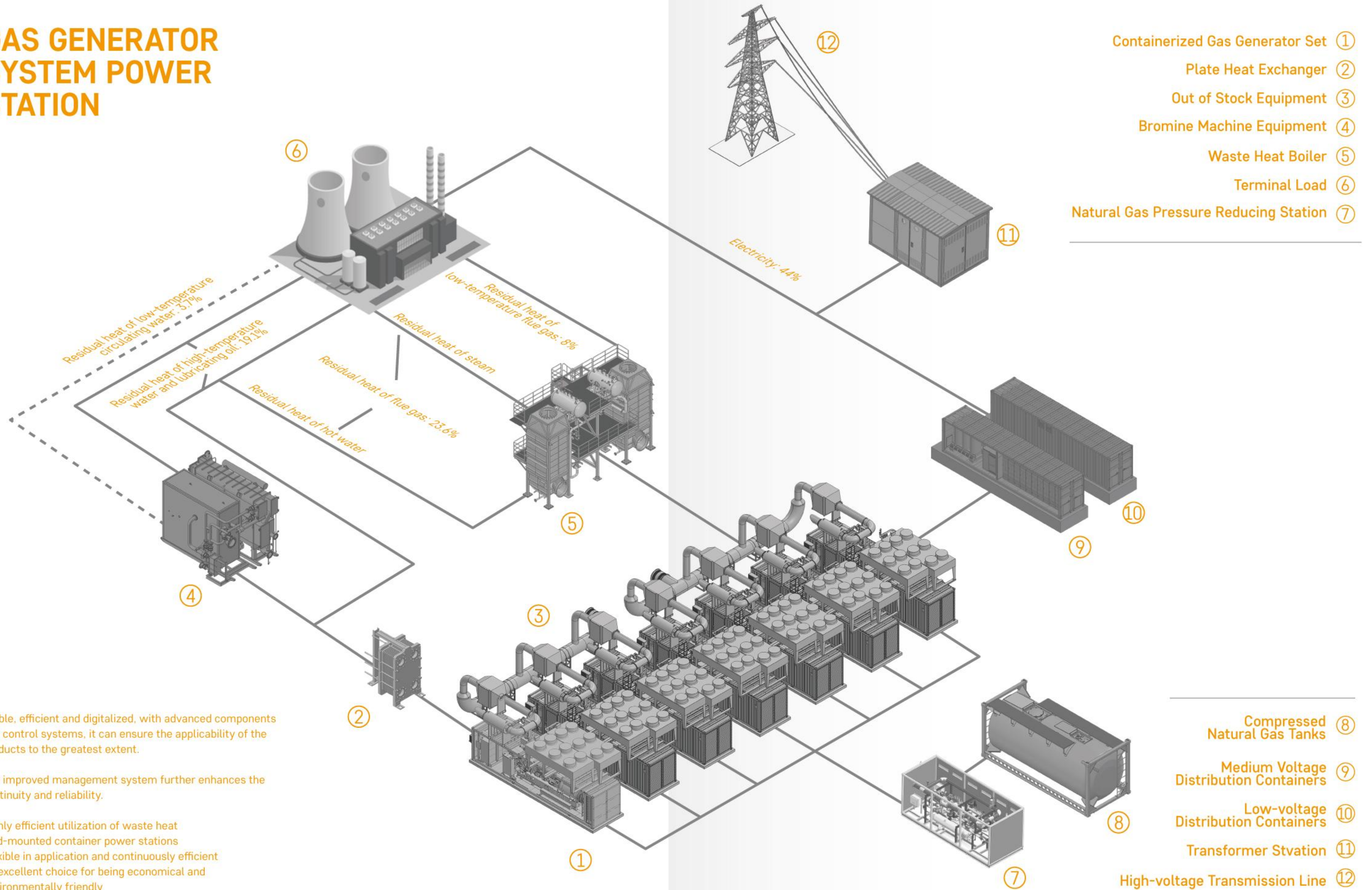
The internal combustion engine cogeneration project of Zhongshan plant in Antarctica uses lake water and ambient temperature for emergency circulating cooling, specially customized shell structure and specially designed air intake system, which effectively overcomes the difficulties of Antarctic's extremely cold climate and heavy snowfall.

Facing the polar climate, Pauway generator set adopts the design of quick-installation modular power plant, effectively utilizes the waste heat generated by the engine, and the comprehensive energy utilization rate can reach more than 85% theoretically.

The completion of the Pauway Antarctic Zhongshan plant internal combustion engine cogeneration project provides a reliable energy guarantee for the Antarctic scientific expedition.



# GAS GENERATOR SYSTEM POWER STATION



- Containerized Gas Generator Set ①
- Plate Heat Exchanger ②
- Out of Stock Equipment ③
- Bromine Machine Equipment ④
- Waste Heat Boiler ⑤
- Terminal Load ⑥
- Natural Gas Pressure Reducing Station ⑦

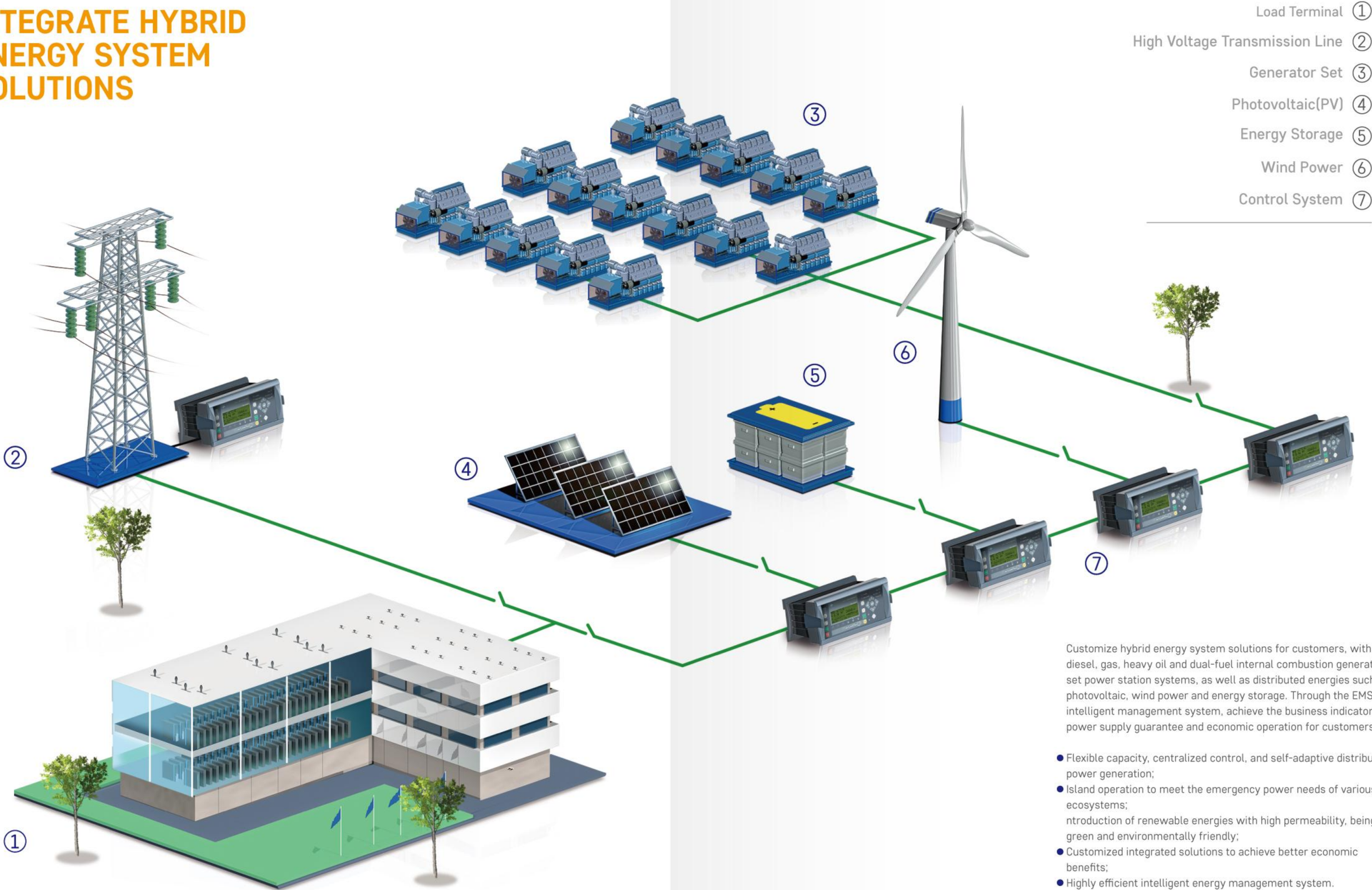
Stable, efficient and digitalized, with advanced components and control systems, it can ensure the applicability of the products to the greatest extent.

The improved management system further enhances the continuity and reliability.

- Highly efficient utilization of waste heat
- Skid-mounted container power stations
- Flexible in application and continuously efficient
- An excellent choice for being economical and environmentally friendly

- Compressed Natural Gas Tanks ⑧
- Medium Voltage Distribution Containers ⑨
- Low-voltage Distribution Containers ⑩
- Transformer Station ⑪
- High-voltage Transmission Line ⑫

# INTEGRATE HYBRID ENERGY SYSTEM SOLUTIONS



- Load Terminal ①
- High Voltage Transmission Line ②
- Generator Set ③
- Photovoltaic(PV) ④
- Energy Storage ⑤
- Wind Power ⑥
- Control System ⑦

Customize hybrid energy system solutions for customers, with diesel, gas, heavy oil and dual-fuel internal combustion generator set power station systems, as well as distributed energies such as photovoltaic, wind power and energy storage. Through the EMS intelligent management system, achieve the business indicators of power supply guarantee and economic operation for customers.

- Flexible capacity, centralized control, and self-adaptive distributed power generation;
- Island operation to meet the emergency power needs of various ecosystems; introduction of renewable energies with high permeability, being green and environmentally friendly;
- Customized integrated solutions to achieve better economic benefits;
- Highly efficient intelligent energy management system.