

RCGPPOWER
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RCGPPOWER



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THE RELIABLE SUPPLIER FOR POWER SYSTEM SOLUTION

PREFACE

Electric energy is the pillar of the world evolution and development. Today's global socio-economic model is marked by the continuous growth of electric energy consumption.

The construction and development of society needs a simple and durable mobile power system with very little impact on the environment, and a professional team provides stable backup support.

As a world leader in the power generation equipment industry, RCGPOWER is committed to innovation and development, serving the growth needs of society, economy and industry through the production and sales network of power generation equipment all over the world. With the latest technology and first-class experts in the industry, we can provide personalized solutions for each customer's needs.

Electric energy means evolution and development. RCGPOWER provides safe and reliable electric energy for global sustainable growth, which is worth relying on.



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COMPANY PROFILE

RCGPPOWER focuses on generating set research and development, manufacturing, marketing and services. The company is located in Wuxi National Hi-Tech Xishan Economic Development Zone, covers an area of more than 30,000 square meters and has a professional R & D center, a modern production base and excellent testing system with an annual capacity of 4,000 sets.

RCGPPOWER can meet all kinds of emergency and common power solutions and systems integration building. Products include diesel generator sets, gasoline generator sets, gas generator sets power distribution systems and so on. Generator sets include open type, silent type, container, vehicle-mounted, trailer, mobile lighthouse and so on, their stand-alone power covering 6kW-3000kW

Products with excellent reliability and durability can meet various harsh environments and high altitude use. They are widely used in expressway, national defense, energy, electric power, communication, finance, medical treatment, tourism, real estate, mine, factory and other fields. And they are exported to Southeast Asia, Middle East, Africa, Europe, the Americas and other regions. We provide the systematic technical support for each customer's and each project's different needs to seek.

As strategic partner and designated OEM manufacturer of CUMMINS, PERKINS, VOLVO, STAMFORD, LEROY SOMER in China.

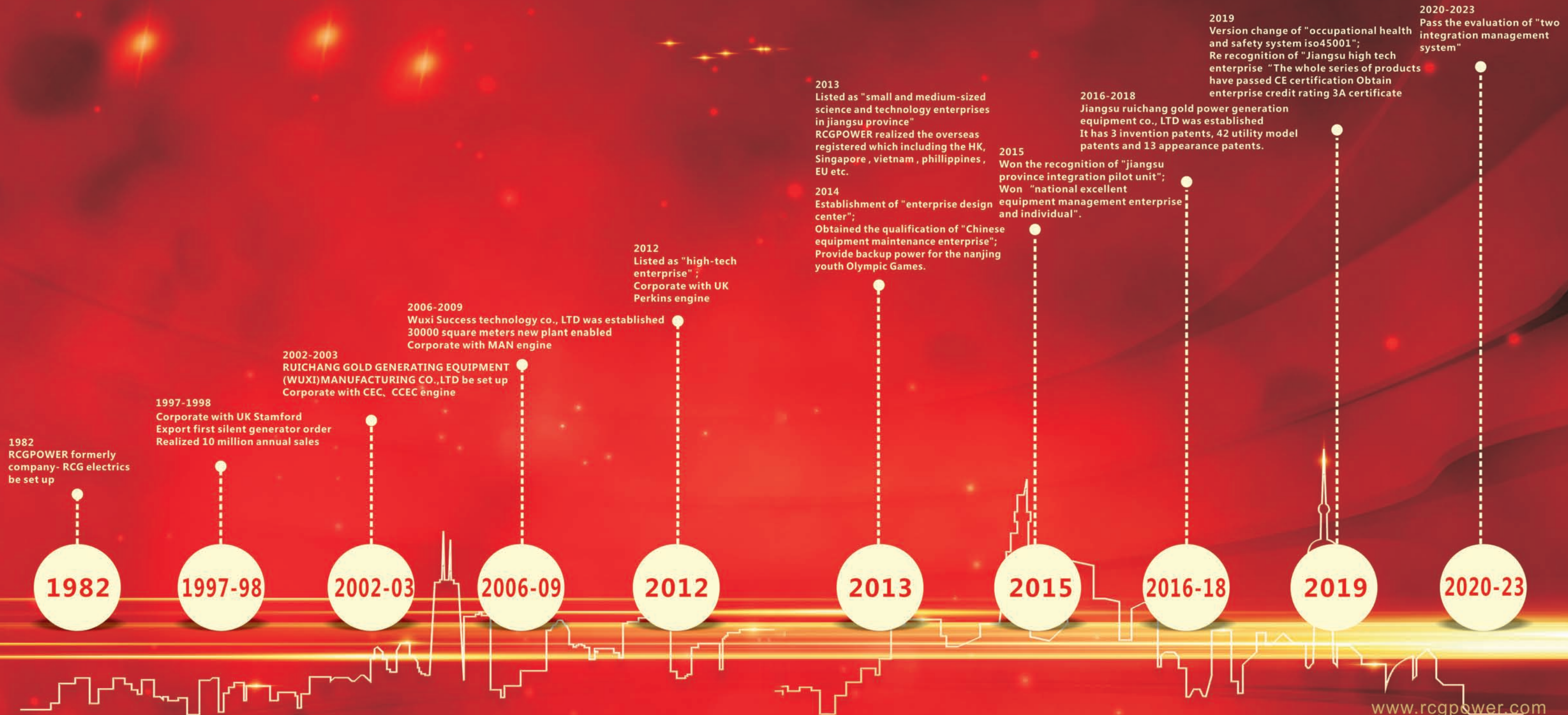
RCGPPOWER passed the ISO9001, ISO14001, ISO45001. And products passed a comprehensive testing, which with high performance and reliable quality are in full compliance with national and international standards of the industry, and achieved Gentile certification, radio and television network license, CE certification, etc.

Through a global sales and service network, we provide users with first-class, internationally competitive products and become the experts of system integration solution.



DEVELOPMENT HISTORY

RCGPOWER 30 YEAR DEVELOPMENT

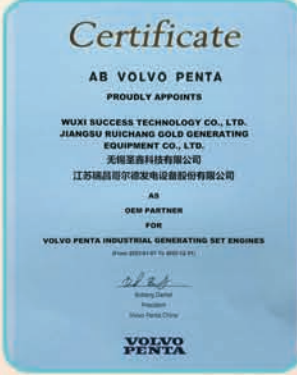


HONOR AND QUALIFICATION

Quality assurance of products certified by authoritative institutions at home and abroad. RCGPOWER aims to establish a modern management system, introduces quality management certification and environmental management system certification, and realizes the specialization, scientization and systematization of management system and environmental management system. And passed the EU CE certification.

The R & D capacity of a number of national invention patents is second to none

RCGPOWER with continuous high R & D investment, strong R & D team strength and independent R & D ability, is second to none in the industry. In the course of 40 years of development, many patented inventions have been created.



R & D

R & D INNOVATION

RCGPOWER firmly believes that strong independent R & D capability is the foundation of the continuous growth of enterprises. In the past 40 years, the investment in R & D of independent technology has been increasing, and R & D expenses account for more than 5% of sales, and the absolute amount is among the top in the industry.

RCGPOWER technology R & D center is responsible for independent innovation activities such as product planning, development, technical support and R & D management. Now, we have a R & D team of more than 20 people, which has absorbed a number of experts in related fields at home and abroad, and electrical engineers, mechanical engineers, process engineers and collection management personnel with more than 5 years of experience in development and design. At the same time, with universities, famous design companies, engineering companies at home and abroad, have carried out extensive and close cooperation.

In the past 40 years, we have made a lot of efforts to develop independent technology and lead the industry standards.

Through increasing the investment in independent R & D technology, RCGPOWER has made a lot of technological innovation results. Obtain 13 patent technology applications; Independently develop rubber wheel mobile power station, crawler mobile power station, trailer power station, silent power station, container power station and other special power stations and economic and environmental protection natural gas generating units; The power of the high voltage generator set with 2000kW has been successfully developed; It has overcome the problem of grid connected operation of multiple units and has created the leading auto integration technology in China.

The strong R & D capability ensures the continuous innovation of RCGPOWER products to meet the changing market demand. And can provide customized products for customers according to customer needs and expectations.



发明专利：一种柴油发电机组装置
ZL 201510770910.2



发明专利：一种柴油发电机组双启动控制电路
ZL 201510546510.3



发明专利：一种用于柴油发电机组的热量回收装置
ZL 201510772850.8



发明专利：一种柴油发电机组双机互备控制系统
ZL2015 1 0549378.1



发明专利：一种用于柴油发电机组的便捷固定装置
ZL 2015 1 0770747.X



发明专利：一种胶轮移动发电机组的动力传输装置
ZL 200910169594.8

MANUFACTURING CAPACITY



Precision hardware factory has many advanced laser cutting machine, numerical control punch, numerical control bending machine and other modern sheet metal processing equipment, these equipment make sheet metal processing work become very easy, whether from the work efficiency, processing technology, or sheet metal utilization and quality stability, have been greatly improved. It can meet the demand of "more variety, less batch" characteristic.

And the drawings required for processing is a big problem. By using the world-class design platform to connect with the processing equipment, the sheet metal processing is free, natural and efficient.

From outdoor, civil and commercial mobile, the unit power ranges from 6-3000kW Professional and technical personnel to produce a variety of different types of products and products to achieve the highest quality standardization.

Through the standardization of production line, the production capacity, work efficiency and higher quality standard are improved.



QUALITY CONTROL



QUALITY CONTROL

Products meet international standards, from incoming inspection, process inspection and factory inspection are strictly checked to ensure product quality to meet the requirements.

We insist that each unit goes through 1 hour of no-load, load, full load and 10% overload compliance test before leaving the factory. The main test items include:

- Noise level test
- Frequency and voltage control test
- Monitoring and testing of oil pressure operation process
- All protection function tests during use
- Appearance and identification inspection.



TECHNICAL SERVICE

TECHNICAL SERVICE

We provide high-quality products. In addition, if you buy genuine accessories, you can rest assured that the quality of these accessories is as good as the quality of the original accessories you want to replace. With the dealer network, you can easily buy the parts you need locally.

RCGPOWER has a group of skilled engineering and technical personnel to provide technical support and professional service platform to ensure that the generator set has the highest use value. We gradually expand the distribution network, so that RCGPOWER team to provide customers with the most convenient and efficient technical knowledge and services.



COOPERATIVE PARTNER

COOPERATIVE PARTNER



PERKINS Visit



FAWDE Visit



STAMFORD Visit



Visit Yuchai MTU



SME Visit



YUCHAI Visit



Visit DCEC



Visit CPT



Visit CCEC



Visit STAMFORD

PRODUCT INTRODUCTION

SOUNDPROOF GENERATORS 6-625kW

Environmental

Super Quiet Performance

- Equipped with silencer and silencer piping system.
- Noise absorbing ducting. The sets have attenuation on all Air Inlets and Outlets.
- A.V.M. and high-strength material. The frame and canopy are built with high-strength material. All doors and movable fixtures are engineered to minimize vibration.
- Absorbent Cotton. The interior is lined with a special vibration absorbent, open-cell polymer material to reduce acoustic vibrations.

Ease of Operation

Base mounted fuel tank

- Large capacity base mounted fuel tank with locking fuel cap to prevent fuel spills inside the enclosure.
- AD fuel injection pump with electric governor.

Convenient water filling system

- There's a water feeder on top of the gen set, which makes the water filling easily, capped with a plug when not using to prevent the rain impouring.

Reliable Alternator

The MECC brushless permanent magnet generator (PMG) design ensures short circuit current capability, allowing co-ordination and tripping of downstream breakers

- Load from 0 – 100%, frequency vibration within $\pm 0.25\%$
- No load wire volts max undulation ratio within 0.5%

Carefree Maintenance

- Wide doors allow easy access for cleaning and repair.
- Engine oil and coolant drain extensions are provided to ease scheduled maintenance. Oil gauge, filter, oil replacement port, water reserve tank, battery and air filter are all located on one side for quick inspection and maintenance.

Enhanced Safety

Designed with safety in mind
The fully covered load centre houses all the outlets, compression terminals, and circuit breakers.
PC control and protection
Fully PC or front panel configuration, automatic shutdown on fault condition.

Locking control panel door

- A viewing panel for the instrument panel shields the system from the elements and permits observation of all key functions without opening the door.
- Current selector switch, Voltage adjuster and main circuit breaker are all protected behind a lockable door.

Open Generators 6-2860kW

Powerful Engine

- Four-cycle industrial engines are built for reliability, with self-diagnostic features
- Electronic fuel injection system with electronic governor ensure continuously variable and low fuel consumption
- Turbocharger with after-cooler

Reliable Alternator

The MECC brushless permanent magnet generator (PMG) design ensures short circuit current capability, allowing co-ordination and tripping of downstream breakers

- Load from 0 – 100%, frequency vibration within $\pm 0.25\%$
- No load wire volts max undulation ratio within 0.5%

Micro-processor panels

The MECC brushless permanent magnet generator (PMG) design ensures short circuit current capability, allowing co-ordination and tripping of downstream breakers

- Fully PC or front panel configurable
- Automatic shutdown on fault condition
- Custom graphical icon type display
- Provides engine alarms and status information and alarm indication by LED & LCD
- Multiple LCD languages (English, French, Spanish, Chinese, etc) possible.
- Can be used with ATS or allowing up to 16 generators to load share.

Base Tank & Anti-Vibration Mounts

- All generators are equipped with large capacity base fuel tanks. Large capacity fuel tank and low fuel consumption rate ensure long period of operation.
- Rubber diagonal isolators are specially designed to reduce engine and alternator vibration and prevent distortion in the voltage and harmonic output of the generator.

Enhanced Safety

- A circuit breaker is provided to protect the generator from shorting of the load circuit or an over load.
- To prevent inadvertent contact with the terminals, the receptacles are divided in a separate section.
- Fully PC or front panel configuration, automatic shutdown on fault condition.
- Emergency stop pushbutton.

PRODUCT INTRODUCTION

ISO CONTAINERIZED GENERATORS 800-2860kW



- All steel shell with strong corrosion resistance;
- The base adopts the square tube oil tank structure, which makes reasonable use of the internal space of the container;
- Special structure water tank is adopted to optimize the volume of the container, so that the smoke exhaust pipe can pass through the container;
- The silencer is built in the bottom of the container, effectively reducing the smoke exhaust noise;
- The box body adopts S-shaped bend air inlet structure, which effectively blocks the noise of the unit during operation;
- The box body adopts the upper exhaust structure to reduce the exhaust noise;
- High efficiency sound-absorbing material and exhaust device can ensure smooth air in and out on the premise of reducing noise;
- The glass sealing window is convenient to observe the operation of the unit and prevent mechanical noise leakage;
- Flame retardant sound insulation and noise reduction materials are arranged around and on the top of the box to suppress the mechanical noise;
- The front and back of the container can be opened, and side doors are set on both sides of the box to facilitate the maintenance and repair of users. Ladders are set outside the box;
- The floor in the box is laid with anti-skid patterned steel plate or aluminum plate;
- High efficient shock absorption measures to ensure the smooth operation of the unit;
- The box is equipped with lighting facilities to facilitate the inspection and maintenance of operators;
- Equipped with fire-fighting equipment to ensure safe use.

PRODUCT INTRODUCTION

Control System



DSE4620



- Monitoring engine speed, oil pressure, coolant temperature, frequency, voltage, current, power and fuel level; the modules will give comprehensive engine and alternator protection. This will be indicated on the largest back-lit LCD icon display in its class via an array of warning, electrical trip and shutdown alarms.
- Alternator sensing, engine support for diesel, gas and petrol engines all in one variant. With a number of flexible inputs, outputs and protections, the modules can be easily adapted to suit a wide range of applications including lighting towers with the added option for staged loading outputs.
- Through USB Communication both modules can be easily configured using the DSE Configuration Suite PC Software or can be fully configured through the module's front panel editor.

DSE7320



- Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen, illuminated LEDs, remote PC and via SMS text alerts (with external modem).
- The DSE7320 will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet® terminals for system expansion.
- Both modules are compatible with electronic (CAN) and non-electronic (magnetic pick-up/alternator sensing) engines and offer an extensive number of flexible inputs, outputs and extensive engine protections so the system can be easily adapted to meet the most demanding industry requirements.
- The extensive list of features includes enhanced event and performance monitoring.

DSE8610



- The DSE8610 is an easy to use multi-generator loadshare system, designed to synchronise up to 32 generators including electronic and non-electronic engines.
- The DSE8610 monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition.
- System alarms are announced on the LCD screen (multiple language options available), illuminated LED and audible sander.
- The event log will record 250 events to facilitate easy maintenance. An extensive number of fixed and flexible monitoring, metering and protection features are included as well as comprehensive communication and system expansion options.

SPARE PARTS SUPPORT

SPARE PARTS SUPPORT

RCGPOWER has a special spare parts support department, with a large number of spare parts inventory, using standard safety packaging and modern warehouse management process, to ensure the timeliness and efficiency of shipment.

With the help of branch companies, dealers and service partners, we can quickly and effectively provide parts replacement service in the maintenance procedure and repair the genset.

SOLUTIONS — EPC OVERSEAS EPC

APPLICATION CASES



PROJECT : MOROCCO NOOR POWER PLANT

Model & Units : 6.6kv R-M1775S*3、 R-M2248S*3

City : Morocco

Solutions

Provide power source for power plant BlackStart;
When the power plant is shut down safely, provide emergency power to the power plant.

Provide secure power supply to the power plant when the power plant is running normally.

Functions and advantages

1. Provide a full set of products and solutions, reduce users' requirements for technology mastery, and make the use and maintenance of the genset more simple and easy;
2. Automatic multi-machine parallel connection (32 sets);
3. Automatic grid connection;
4. Automatic fault detection and protection;
5. International standard communication interface;
6. Interactive function of DG system and DCS system;
7. Customized design and development for the special needs of some customers.



PROJECT : OMAN IBRI POWER PLANT

Project : OMAN IBRI Power Plant

Model & Units : 10.5kv SYN R-M2250S * 11

City : Oman

Solutions

Provide power source for power plant BlackStart;
When the power plant is shut down safely, provide emergency power to the power plant.

Provide secure power supply to the power plant when the power plant is running normally.

Functions and advantages

1. Provide a full set of products and solutions, reduce users' requirements for technology mastery, and make the use and maintenance of the unit more simple and easy;
2. Automatic multi-machine parallel connection (32 sets);
3. Automatic grid connection;
4. Automatic fault detection and protection;
5. International standard communication interface;
6. Interactive function of DG system and DCS system;
7. Customized design and development for the special needs of some customers.

SOLUTIONS — EPC OVERSEAS EPC

SOLUTIONS — POWER PLANT

APPLICATION CASES



Project : Pakistan Haveli Power Plant
Model & Units : R-C2200S/R-DC500S * 3
City : Pakistan



Project : Kasim Coal-fired Power Plant Project in Pakistan
Model & Units : R-P1500S * 2
City : Pakistan



Project : SINOPEC



No.	Project	Model & Units	City
1	Sinopec HuNan	R-DC187*1	Hunan
2	Sinopec HeNan	R-604GT*8	Henan
		R-804GT*6	
3	Sinopec SiChuan	R-DC125*3	Sichuan
		R-DC250S*1	
4	Sinopec HeNan	R-DC100*2	Henan
5	Sinopec HuBei	R-C800*1	Hubei



Project : 140kW mobile power station of multifunctional welding vehicle of CNPC Pipeline Bureau



SOLUTIONS — POWER PLANT

SOLUTIONS — OIL FIELD

APPLICATION CASES



Project: National Energy Group
Units: 24

序号	电厂名称	项目	型号&数量 (台)	地区
1	国电宿迁	2*660MW-热电	R-C1500*2	江苏
2	国电宁夏方家庄	2*1000MW-火电	R-M2250*2	宁夏
3	国电大渡河沙坪	二级水电站	R-MA1000*2	四川
4	国电朝阳热电	2*350MW-热电	R-P800*2	辽宁
5	国电泰安	2*350MW-火电	R-C750*	山东



Project: CHD
Model & Units: R-P1500/R-1250 * 8

No.	Power Plant Name	Project	Model & Units	City
1	CHD - Hubei	2x660MW- Thermal power	R-P1500x2	Hubei
2	CHD - Shaowu	2x660MW- Thermal power	R-P1500x2	Fujian
3	CHD - Nanjiang	900MW- Thermoelectricity	R-P1500x2	Tianjin
4	CHD - Kunshan	2x400MW- Thermoelectricity	R-P1250x2	Jiangsu



Project: SPIC
Model & Units: R-P800/R-P2250 * 6

No.	Power Plant Name	Project	Model & Units	City
1	SPIC - Changchun	2*350MW-Thermoelectricity	R-P800*2	Jilin
2	SPIC - Chifeng	2*300MW-Thermoelectricity	R-P800*2	Neimenggu
3	SPIC - Binhai Xiexin	2*1000MW-Thermal power	R-P2250*2	jiangsu



Project: CHINA HUANENG
Model & Units: R-P1650 * 2

Power Plant Name	Project	Model & Units	City
CHINA HUANENG Ningxia Branch	2x660MW- Thermal power	R-P1650x2	Ningxia

SOLUTIONS — PROPERTY

SOLUTIONS — POWER PLANT

APPLICATION CASES



Project: China Resources Land
Units: 75
City: China Guangdong



Project: Poly Real Estate
Units: 60
City: China Guangdong



Project : CHINA OVERSEAS BUILDING (COB)
Model & Units : R-P/WD/JC系列 * 51
City : China-Jiangsu



Project: China Mobile Suqian Branch
Units: 1800kW Yuchai
City: China Jiangsu



Project: China Mobile Huaian Branch
Units: 1800kW Yuchai
City: China Jiangsu



Project: China Unicom Hohhot Branch
Units: 2000kW Yuchai
City: China Neimenggu

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SOLUTIONS — IDC

SOLUTIONS — IDC

APPLICATION CASES



Project: Data Center Chinanet Wuxi
Units: 1800kW*5 MTU
City: China Jiangsu



Project : China (Wuxi) International Data Center
Model & Units : 2200kW * 15 SYN
City : China-Jiangsu



Project: Hunan Huayun Data Lake
Units: 1800kW*2 Cummins
City: China Hunan



Project : Jiangsu HengYun Cloud
Model & Units : 10.5KV R-C2500D5A * 6
City : China-Jiangsu



Project : Unicom Systems Integration Co.,Ltd. Jiangsu branch
Model & Units : 10.5KV R-C2500D5A * 4
City : China-Jiangsu



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SOLUTIONS — EXPRESSWAY

SOLUTIONS

APPLICATION CASES



Project : Mount Emei - HanYuan Expressway
Units : 5
City : China-Sichuan

Project : WeiYuan-WuDu Expressway
Units : 5
City : China-Gansu



Project: Anhui Expressway Tunnel
Units: 11
City: China Anhui



Project: Renzun Expressway
Units: 700kW SDEC
City: China Guizhou



Project : Nanjing Youth Olympic Game
Model & Units : R-P/DC/CC * 14
City : China-Nanjing



Project : Canada Mining
Model & Units : 10.5KV SYN R-C1250*6
City : Canada



Project : Japan nuclear island
Model & Units : 6.6KV SYN R-P625S*25
City : Japan

VISION AND MISSION

VISION AND MISSION

Vision: The Reliable Supplier For Power System Solution
Management Idea: Achieve the most beautiful self with
diligence, Creating the spirit of craftsmanship
through craftsmanship
Cultural Promotion: Chongwen Thick merchant Sincerity
Bring forth new ideas

SOCAIL RESPONSIBILITY

VISION AND MISSION



RCGPPOWER's goal is to reduce its impact on the environment. We are committed to integrating environmental and social standards into the global procurement system and building a sustainable supply chain that benefits the company, its suppliers and the customers served by RCGPOWER.

Business isn't just about selling products. RCGPOWER cares about people and society and works to make the world a better place. As a responsible corporate citizen, we are committed to safe production, concern for the environment, and manage our business in an ethical manner.

RCGPPOWER provides innovative power solutions to the world, actively performs corporate citizenship duties, and has long been committed to sustainable social, economic and environmental development.

