



**长城电工**  
GREAT WALL ELECTRICAL

电力装备公司宣传画册

Lanzhou Great Wall Electrical Power Equipment Co., Ltd. Brochure



**兰州长城电工股份有限公司**  
LANZHOU GREAT WALL ELECTRICAL CORPORATION.

**兰州长城电工电力装备有限公司**  
LANZHOU GREAT WALL ELECTRICAL POWER EQUIPMENT CO., LTD.



### 领导关怀 Leading Care

1958年2月13日毛主席视察长城电工213公司老厂装配车间，为了纪念这一有意义的日子，在大家的建议下，经上级批准，将厂名改为“沈阳二一三机床电器厂”即现在的“天水二一三电器有限公司”。

On February 13, 1958, Chairman Mao inspected the assembly workshop of the old factory of GWE 213 company. In order to commemorate this meaningful day, the factory name was changed to *Shenyang 213 Machine Tool Electrical Apparatus Factory*, which is now *Tianshui 213 Electrical Apparatus Co., Ltd.*



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## 展望未来 Looking to the future

想到扶持，才能克服挑战  
团结协作，才能共创未来  
In order to overcome the challenges that support  
Solidarity and cooperation to create a better future



# COMPANY PROFILE

## 企业简介

兰州长城电工股份有限公司（简称“长城电工”）系国有控股上市公司。主营业务属装备制造制造业中的电工电器行业，主要从事 0.4 到 126kV 的高中低压成套开关设备和电器元件、电气传动自动化装置、新能源控制装置等产品的研发、制造和销售。

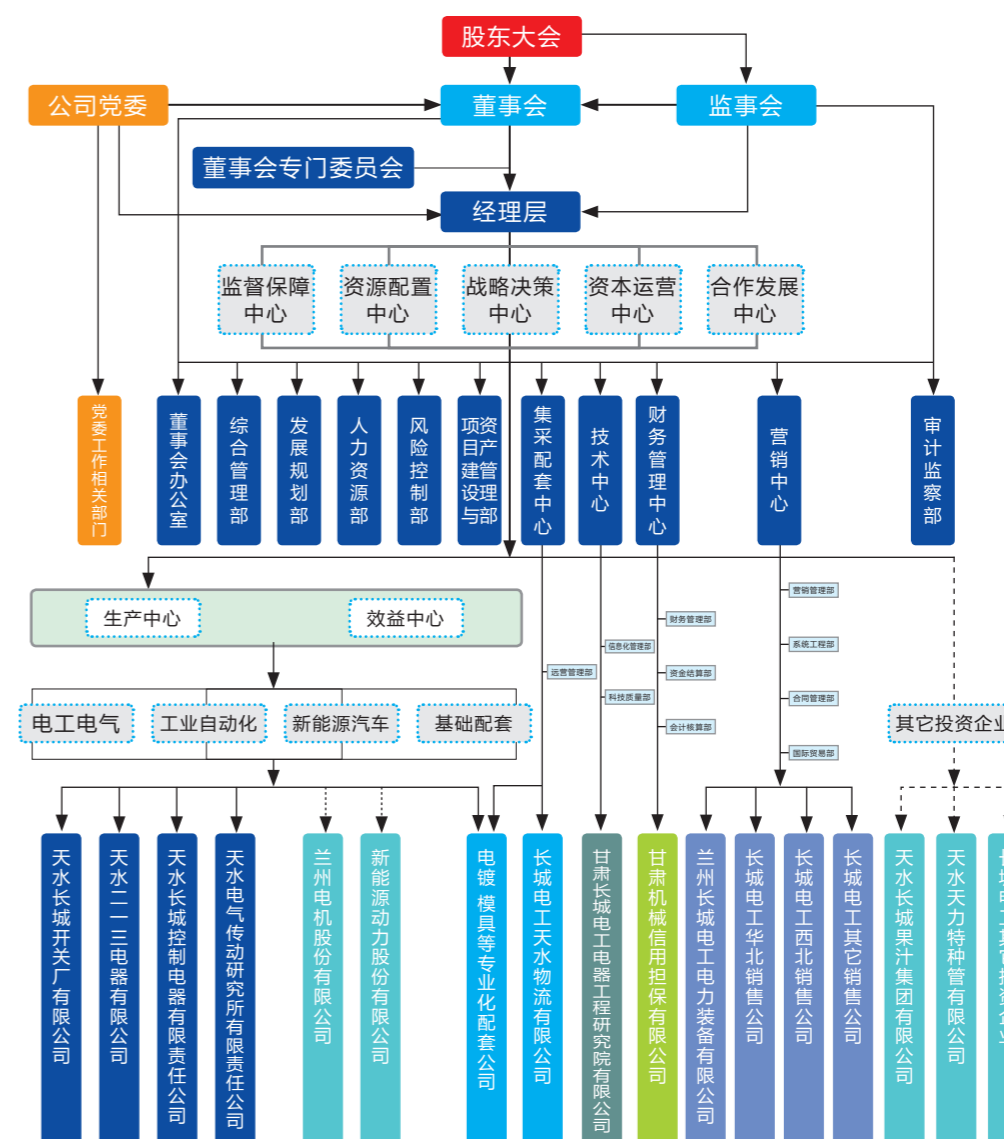
经过多年来的改革和发展，长城电工已发展成为国内外具有显著影响力的知名企业。目前，公司拥有国家级企业技术中心，产品广泛应用于发电及输配电、有色、冶金、石化、煤炭、交通、建筑等国民经济各领域；三峡、鸟巢、宝钢、青藏铁路及神五、神六、神七等国家重点工程采用了公司的产品；公司生产的主要产品出口欧、亚、非、澳等六十二个国家和地区。

Lanzhou Great Wall Electrical corporation (shortened as GWE) is a state-owned holding listed company. GWE is mainly engaged in researching, developing, producing and providing LV, MV, HV switchgear equipment and electrical components, industrial electrical automation control devices, new energy control system, integrated system solutions for hydropower station and etc.

GWE has already become a famous company through many years reformation and development. The company's products have high reputation popularity and influence in power generation, transmission and distribution, metallurgy, petroleum, chemical, coal, transportation, construction and other industries, and have used in Antarctic Great Wall and Zhongshan Station, Yangtze River Three Gorges Project, Shenzhou-5 Shenzhou-6 Shenzhou-7 and human-carried space flight project, Bird's Nest Olympic stadium, Qinghai-Tibet Railway, Beijing Subway and other Chinese national key projects, the company's products not only cover all over the country but also export to about 62 countries and regions in European, America, Asia, Africa.



**公司组织结构**  
 Corporate Organizational Structure



Chapter Two  
第二章

## BRIEF INTRODUCTION OF EPE

### 电力装备简介

兰州长城电工电力装备有限公司（简称电力装备公司），成立于2009年，是兰州长城电工股份公司的全资子公司和海外业务统一出口平台。电力装备公司作为长城电工的海外市场策划和营销窗口，肩负着长城电工产品的系统集成与出口使命。

Lanzhou Great Wall Electrical Power Equipment Co., Ltd. (EPE for short) is established in 2009, and is the centralized export business platform of Lanzhou Great Wall Electrical Corporation. EPE, as the window of foreign marketing of GWE is to export integrated products of GWE.

# INTRODUCTION OF MAJOR FACTORIES

## 主要工厂介绍

### 长城电工天水电工电器产业基地

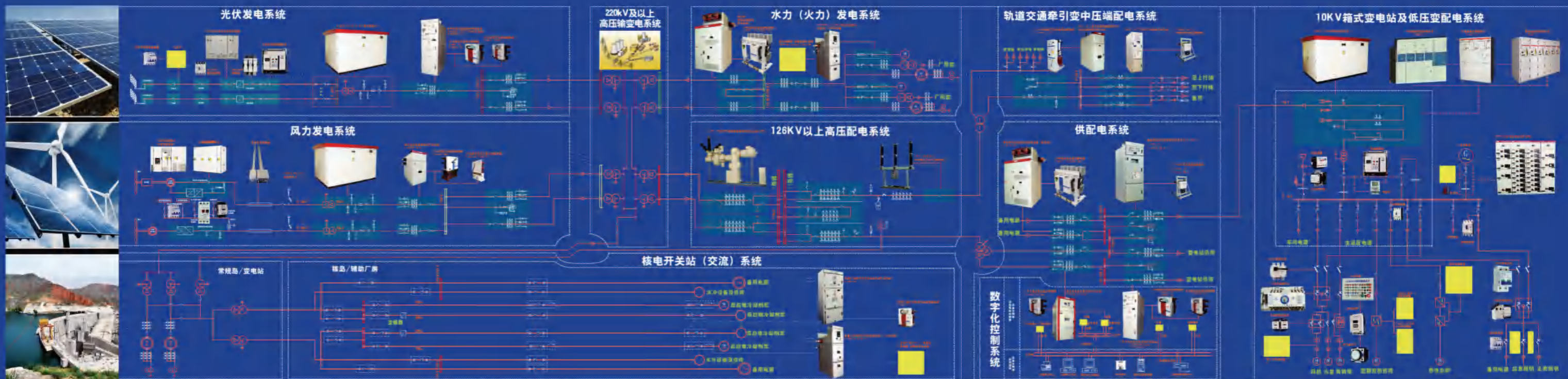
#### GWE Tianshui Electrical and Electric Industrial Bases

“工欲善其事，必先利其器”，长城电工通过实施电工电器产业园；现代制造服务中心；高中低压开关设备和元件生产基地；低压电器元件和关键零部件生产基地；自动化装置和新能源控制系统的生产基地；母线槽、特种电器生产基地“一园一中心四基地”项目建设，引进和联合研制了中低压成套开关设备、电器元件、关键工艺及关键零部件数字化生产装配检测线等，公司工艺装备的数字化率达到90%以上，实现了产业、产品、装备及管理升级。公司产业园项目获得工信部授予的全国智能制造及数字化车间示范项目称号。

GWE implements "one park one center four bases" construction project, which consist of Electrical and Electric Industrial Park, Modern Manufacturing Service Center, HV, LV Complete Switchgear Equipment and Electrical Components Manufacturing Base, LV Electrical Components and Key Parts Production Base, Automatic device and control system of new energy production base; Bus duct, special apparatus production base. By import and develop jointly digital production assembly & testing line, the company process equipment of digital rate is above 90%. GWE achieved upgrade on industry, equipment and management. The company industrial park project is awarded as national demonstration project of intelligent manufacturing and digital workshop by the Ministry Of Industry And Information Technology Of PRC



★电气系统解决方案 Electrical System Solutions



Chapter Four  
 第四章

# INTRODUCTION OF MAIN PRODUCTS

## 主要产品介绍

中压开关设备 / M.V Switchgears Equipment

★智能化开关设备 Intelligent Switchgear Equipment



◀ KYN28A 系列铠装型移开式交流金属封闭开关设备  
 KYN28A Series Withdrawable AC Metal-clad Enclosed Switchgear Equipment



◀ i-AX(KYN79-24) 系列移开式开关设备  
 i-AX(KYN79-24) Series Withdrawable AC Metal-enclosed Switchgear Equipment



◀ i-AY1-40.5 系列移开式交流金属封闭开关设备  
 i-AY1-40.5 Series Withdrawable AC Metal-enclosed Switchgear Equipment

★气体绝缘金属封闭开关设备 Gas Insulated Metal-enclosed Switchgear Equipment



◀ i-AZ1 型箱型固定式户内交流金属封闭开关设备 (C-GIS)  
 i-AZ1 Series Cubicle-fixed indoor AC Metal-enclosed Switchgear Equipment(C-GIS)



◀ i-AZ1A-40.5 气体绝缘开关设备 (C-GIS)  
 i-AZ1A-40.5 Gas-insulated Switchgear Equipment(C-GIS)

★铁道专用开关设备 Railway Application Switchgear Equipment



◀ XZ1-31.5(Z) 单相铁道专用开关设备  
 XZ1-31.5(Z) single-phase Railway Application Switchgear Equipment



◀ i-AZ3-2X31.5 气体绝缘金属封闭开关设备 (C-GIS)  
 i-AZ3-2X31.5 Gas-insulated Metal-enclosed Switchgear Equipment(C-GIS)

★ i-AY1A-12 系列开关设备  
 i-AY1A-12 Series Switchgear Equipment



◀ i-AY1A-12 系列移开式交流金属封闭开关设备  
 i-AY1A-12 Withdrawable AC Metal-enclosed Switchgear Equipment

★预装箱式变电站  
 Prefabricated Cubical Substation



▲ YBM(P)13-12 系列预装箱式变电站  
 YBM 12 Series Prefabricated Cubical Substation



★发电机出口系列开关设备 (12 ~ 18kV) Generator Series Switchgear Equipment



◀ KGN7-12 单、双母线铠装型交流金属封闭开关设备  
 KGN7-12 Single/Double-busbar AC Metal-clad enclosed Switchgear Equipment



◀ i-AX-15/T3150-50 移开式交流金属封闭开关设备 (LSC2B-PI 级)  
 i-AX-15/T3150-50 Withdrawable AC Metal-enclosed Switchgear Equipment(LSC2B-PI)



◀ i-AY2A-18(Z)/T5000-63 移开式交流金属封闭开关设备 (LSC2B-PI 级)  
 i-AY2A-18(Z)/T5000-63 Withdrawable AC Metal-enclosed Switchgear Equipment(LSC2B-PI)



◀ i-AT2-15(Z)/T6300-80 固定式交流金属封闭开关设备 (LSC2B-PM 级)  
 i-AT2-15(Z)/T6300-80 Fixed-type AC Metal-enclosed Switchgear Equipment(LSC2B-PM)

★核电 1E 级开关设备 Nuclear Power Class 1E Switchgear Equipment



◀ i-AY6-12/T1250~3150-50 移开式交流金属封闭开关设备  
 i-AY6-12/T1250~3150-50 Withdrawable AC Metal-enclosed Switchgear Equipment

★低压开关设备 / Low-voltage Switchgear Equipment



▲ CMNS 低压抽出式开关设备  
 CMNS Low-voltage Withdrawable Switchgear Equipment



▲ GCS 低压抽出式开关设备  
 GCS Series Low-voltage Withdrawable Switchgear Equipment



▲ MNS2.0 低压开关设备 (与 ABB “合作产品”)  
 MNS2.0 Low-voltage Switchgear Equipment("Cooperation with ABB products")



▲ Blokset 低压开关设备 (与施耐德技术合作)  
 Blokset Low-voltage Switchgear Equipment(In cooperation with the Schneider technique)



# MEDIUM-VOLTAGE ELECTRICAL COMPONENTS

## 中压电器元件

### ★固封极柱真空断路器 Non-embedded Poles Vacuum Circuit Breakers

▶ EVH1-12 户内高压交流真空断路器  
 EVH1-12 Indoor AC High-voltage Vacuum Circuit Breaker



◀ EVH1-24 户内高压交流真空断路器  
 EVH1-24 Indoor AC High-voltage Vacuum Circuit Breaker



▶ EVH1-40.5 户内高压交流真空断路器  
 EVH1-40.5 Indoor AC High-voltage Vacuum Circuit Breaker



### ★非固封极柱真空断路器 Embedde Poles Vacuum Circuit Breakers



▲ ZN63A-12 户内高压交流真空断路器  
 ZN63A-12 Indoor AC High-voltage Vacuum Circuit Breaker



▲ EVS1-12 户内高压交流真空断路器  
 EVS1-12 Indoor AC High-voltage Vacuum Circuit Breaker



▲ ZN65A-12 户内高压交流真空断路器  
 ZN65A-12 Indoor AC High-voltage Vacuum Circuit Breaker

### ★电气化铁道真空断路器 Electrified Railway Vacuum Circuit Breakers



◀ EVH6-31.5(G) 单相户内电气化铁道真空断路器  
 EVH6-31.5(G) Single-phase Indoor Electrification Railway Vacuum Circuit Breaker



▲ EVH3R-2×31.5 铁道单相双极真空断路器  
 EVH3R-2×31.5 Railway Single-phase Bipolar Vacuum Circuit Breaker

### ★发电机真空断路器 Generator Vacuum Circuit Breakers



▲ EVH4-15/T3150-50F 户内高压交流发电机真空断路器  
 EVH4-15/T3150-50F Indoor AC High-voltage Generator Vacuum Circuit Breaker



▲ EVH4-18/T5000-63F 户内高压交流发电机真空断路器(手车式)  
 EVH4-18/T5000-63F Indoor AC High-voltage Generator Vacuum Circuit Breaker(withdrawable)



▲ EVH4-15/T6300-80F 户内高压交流发电机真空断路器(固定式)  
 EVH4-15/T6300-80F Indoor AC High-voltage Generator Vacuum Circuit Breaker(Fixed type)

★核电 1E 级真空断路器  
Nuclear Power Class 1E Vacuum Circuit Breaker



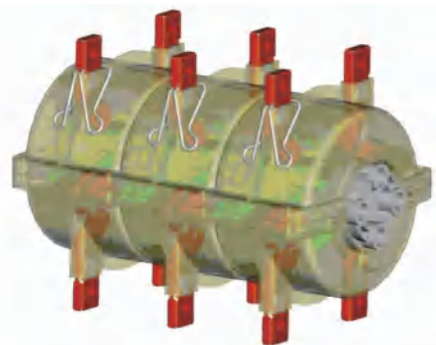
▲ EVH9-12 系列户内  
高压交流真空断路器  
EVH9-12 Series  
Indoor High-voltage  
AC Vacuum Circuit  
Breaker

★互感器  
Transformers



▲ ECT-12/(2000A) 电子式  
电流互感器  
ECT-12/(2000A) Electronic  
Current Transformer

★负荷开关、三工位开关 Load Switch and Three-position Switch



★接触器 Contactor



▲ JCZ16-12J(D)/D400-4.5 交  
流高压真空接触器  
JCZ16-12J(D)/D400-4.5  
Indoor AC High-voltage  
Vacuum Contactor



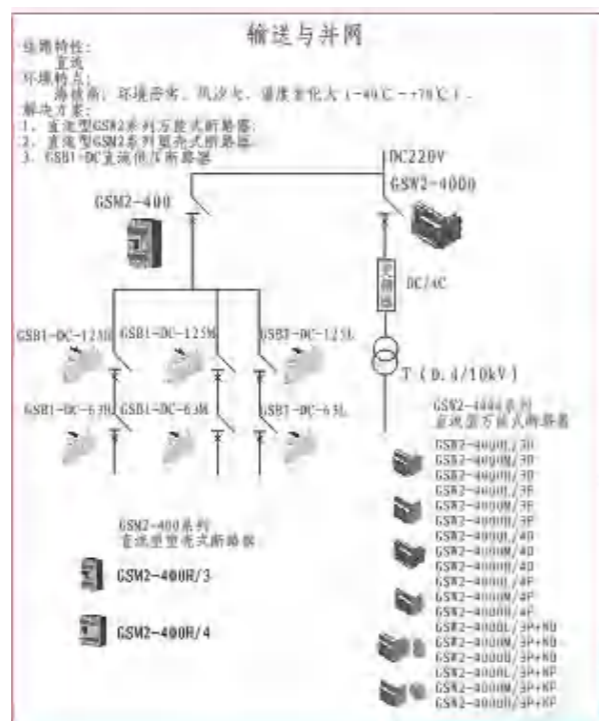
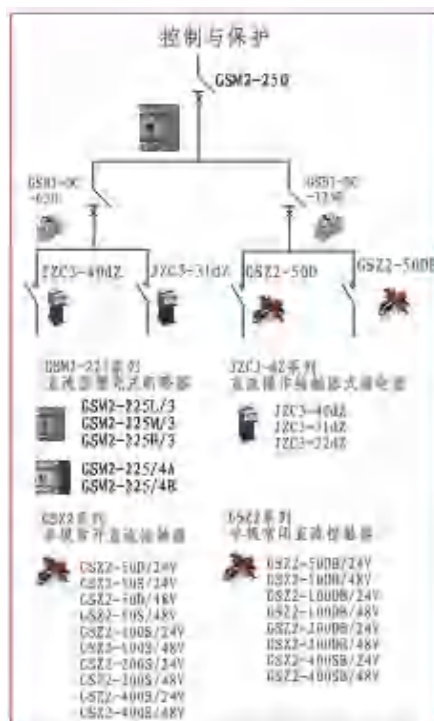
▲ JCZR16-7.2/12J(D) 型  
系列接触器-熔断器组合电器  
JCZR16-7.2/12J(D)  
Series Fuse-contactor  
Combination



▲ JCZ2-7.2J(D) 交流高压真空接  
触器  
JCZ2-7.2J(D) Indoor AC High-  
voltage Vacuum Contactor



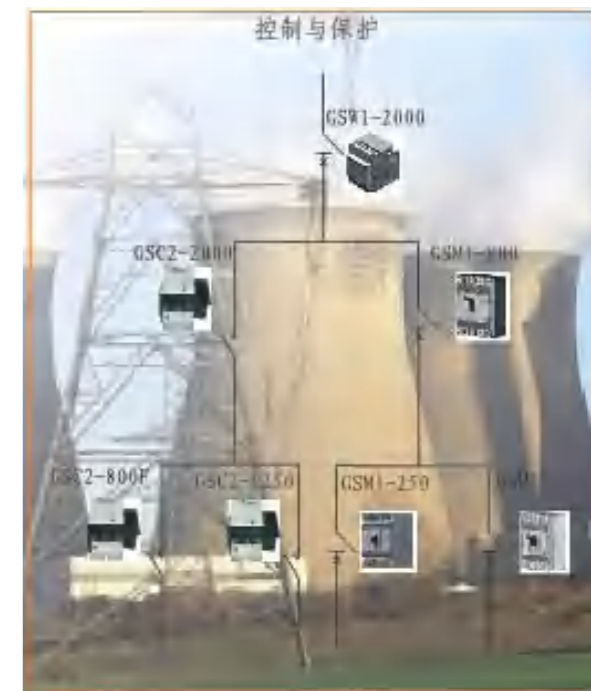
光伏发电系统  
Photovoltaic Power Generation System



中文	英文
控制与保护	Control and protection
GSM2 225 系列	GSM2 225 series
直流型塑壳式断路器	DC molded case circuit breaker
JZC3 dZ 系列	JZC3 dZ series
直流操作接触器式继电器	DC operating contactor type relay
直流操作接触器式继电器	DC operating contactor type relay
GSZ2 系列	GSZ2 series
单极常开直流接触器	Single-pole normally open DC contactor

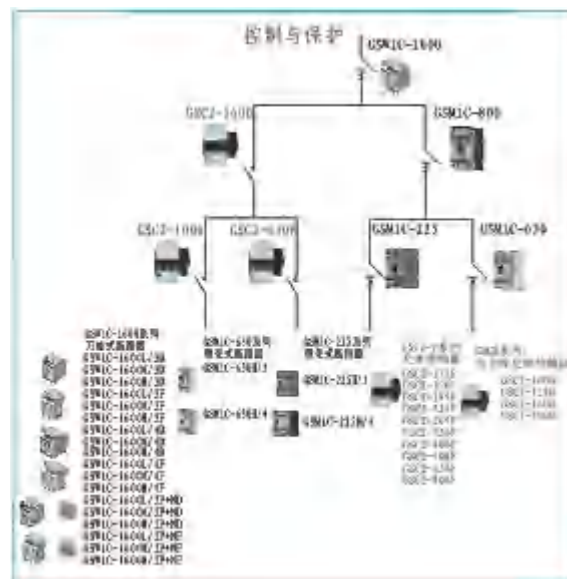
中文	英文
输送与并网	Transportation and synchronization
直流	DC
<b>环境特点:</b> 海拔高; 环境恶劣、风沙大、温度变化大 (—40℃ ~ +70℃), <b>解决方案:</b> 1、直流型 GSW2 系列万能式断路器; 2、直流型 GSM2 系列塑壳式断路器; 3、GSBI —DC 直流低压断路器	<b>Environmental characteristics:</b> High altitude: poor environment, windy and sandy, large temperature variation (-40°C to +70°C ) <b>Solution:</b> 1. DC GSW2 series of air circuit breakers; 2. DC GSM2 series of molded case type circuit breakers; 3. GSBI —DC DC low-voltage circuit breakers
GSM2-400 系列 直流型塑壳式断路器	GSM2-400 series DC molded case type circuit breakers
GSW2-4000 系列 直流型万能式断路器	GSW2-4000 series DC air circuit breakers

火电系统  
Thermal power system

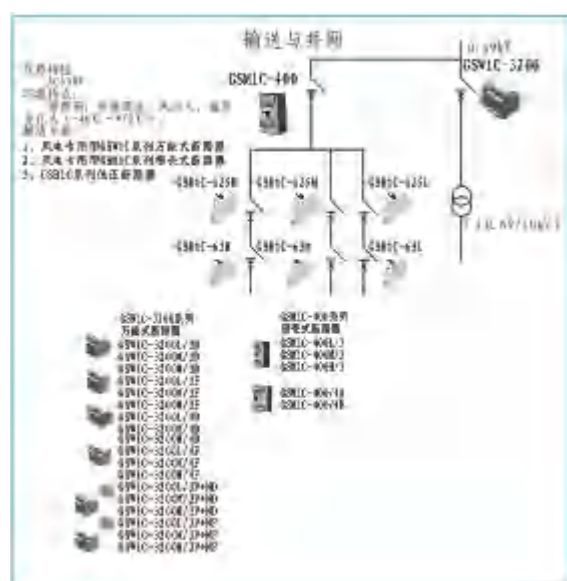


中文	英文
输送与并网	Transportation and synchronization
<b>线路要求:</b> 断路器具备两段或三段保护及漏电保护, 能保持供电的持续性、稳定性及安全性 <b>线路特点:</b> 直流分量高; 瞬态恢复电压高; <b>解决方案:</b> 1、发电机专用 GSW1 系列万能式断路器; 2、发电机专用 GSM1 系列塑壳式断路器;	<b>Requirements on circuits:</b> The circuit breaker shall have two sectional or three sectional protection and electric leakage guarantee, in order to keep the continuous, stable and safe power supply. <b>Characteristics of circuits:</b> High DC component; high instant recovery voltage; <b>Solutions:</b> 1. The GSW1 series of air circuit breakers special for motors; 2. The GSM1 series of molded case circuit breakers special for motors
GSW1-4000 系列 万能式断路器	GSW1-4000 series of air circuit breakers
GSW1-400 系列 塑壳式断路器	GSW1-400 series of molded case circuit breakers
GSB1-125 系列 低压断路器	GSB1-125 series of low-voltage circuit breakers
GSB-63 系列 低压断路器	GSB-63 series of low-voltage circuit breakers

中文	英文
控制与保护	Control and protection


**风电系统**  
 Wind power system


中文	英文
控制与保护	Control and protection
GSW1C-1600 系列 万能式断路器	GSW1C-1600 series of air circuit breakers
GSW1C-630 系列 塑壳式断路器	GSW1C-630 series of molded case circuit breakers
GSW1C-225 系列 塑壳式断路器	GSW1C-225 series of molded case circuit breakers
GSC-F 系列 交流接触器	GSC-F series of AC contactors
GSC2 系列 大电流交流接触器	GSC2 series of large current AC contactors



中文	英文
输送与并网	Transportation and synchronization
<b>线路特性:</b> AC690V	<b>Characteristics of circuits:</b> AC690V
<b>环境特点:</b> 海拔高; 环境恶劣、风沙大、温度变化大 (-40°C ~+70°C)	<b>Environmental characteristics:</b> High altitude; poor environment, windy and sandy, large temperature variation (-40°C to +70°C)
<b>解决方案:</b> 1、风电专用型 GSW1C 系列万能式断路器 2、风电专用型 GSM1C 系列塑壳式断路器 3、GSBIC 系列低压断路器	<b>Solutions:</b> 1. GSW1C series of air circuit breakers special for wind power 2. GSM1C series of molded case circuit breakers special for wind power 3. GSBIC series of low-voltage circuit breakers
GSW1C-3200 系列 万能式断路器	GSW1C-3200 series of air circuit breakers
GSW1C-400 系列 塑壳式断路器	GSW1C-400 series of molded case circuit breakers


**水电系统**  
 Hydroelectric system


中文	英文
输送与并网	Transportation and synchronization
<b>线路要求:</b> 断路器具备两段或三段保护及漏电保护, 能保持供电的持续性、稳定性及安全性 <b>线路特点:</b> 直流分量高; 瞬态恢复电压高; <b>解决方案:</b> 1、发电机专用 GSW1 系列万能式断路器; 2、发电机专用 GSM1 系列塑壳式断路器	<b>Requirements on circuits:</b> The circuit breaker shall have two sectional or three sectional protection and electric leakage guarantee, in order to keep the continuous, stable and safe power supply. <b>Characteristics of circuits:</b> High DC component; high instant recovery voltage; <b>Solutions:</b> 1. The GSW1 series of air circuit breakers special for motors; 2. The GSM1 series of molded case circuit breakers special for motors
GSW1-4000 系列 万能式断路器	GSW1-4000 series of air circuit breakers
GSW1-400 系列 塑壳式断路器	GSW1-400 series of molded case circuit breakers
GSB1-125 系列 低压断路器	GSB1-125 series of low-voltage circuit breakers
GSB-63 系列 低压断路器	GSB-63 series of low-voltage circuit breakers



中文	英文
控制与保护	Control and protection


**楼宇建筑系统**  
 Building construction system

**楼宇配电**

线路要求:  
进线断路器具有双电源自动切换功能,支路断路器具备两段或三段保护以及漏电保护,能保持供电的持续性、稳定性和安全性。  
线路特点:  
双电源切换; 泄漏电流偶尔存在,且时间短。  
解决方案:  
1. GSAI系列自动转换开关  
2. GSLI系列剩余电流动作断路器延时型  
3. GSMI系列塑壳式断路器




中文	英文
楼宇配电	Building power distribution
<p><b>线路要求:</b> 进线断路器具有双电源自动切换功能,支路断路器具备两段或三段保护以及漏电保护,能保持供电的持续性、稳定性和安全性。 <b>线路特点:</b> 双电源切换; 泄漏电流偶尔存在,且时间短。 <b>解决方案:</b> 1. GSAI 系列自动转换开关 2. GSLI 系列剩余电流动作断路器延时型 3. GSMI 系列塑壳式断路器</p>	<p><b>Requirements on circuits:</b> The incoming line circuit breaker has dual-power automatic switch function, with branch breaker with two or three sectional protection and electrical leakage protection, which can guarantee continuous, stable and safe power supply. <b>Characteristics of circuits:</b> Dual-power switch; with occasional electric leakage of short time. <b>Solutions:</b> 1. GSAI series of automatic switch 2. GSLI series of residual current operated circuit-breaker 3. GSMI series of molded case circuit breaker</p>

**总配电室**

线路要求:  
变压器低电压侧的进线断路器应具备完善的四段保护及失压、欠压保护,支路断路器具备两段或三段保护及漏电保护,能保持供电的持续性、稳定性和安全性。  
线路特点:  
所有支路的电压反馈进入主干路  
解决方案:  
1. GSW1系列万能式断路器  
2. GSM1系列塑壳式断路器  
3. GSA1系列自动转换开关  
4. GSL1系列剩余电流动作断路器  
5. GSB系列微型断路器



中文	英文
总配电室	Total distribution room
<p><b>线路要求:</b> 变压器低电压侧的进线断路器应具备完善的四段保护及失压、欠压保护,支路断路器具备两段或三段保护及漏电保护,能保持供电的持续性、稳定性和安全性。 <b>线路特点:</b> 所有支路的电压反馈进入主干路 <b>解决方案:</b> 1. GSW1 系列万能式断路器 2. GSM1 系列塑壳式断路器 3. GSA1 系列自动转换开关 4. GSL1 系列剩余电流动作断路器 5. GSB 系列微型断路器</p>	<p><b>Requirements on circuits:</b> The incoming circuit breaker of the low-voltage side of the transformer shall have perfect four sectional protection and non-voltage and low-voltage protection. The branch circuit breaker shall have two or three sectional protection and electric leakage protection, guaranteeing the continuous, stable and safe power supply. <b>Characteristics of circuits:</b> All the voltages on branches are reflected to enter into the main circuit <b>Solutions:</b> 1. GSW1 series of air circuit breakers 2. GSM1 series of molded case circuit breakers 3. GSA1 series of automatic switch over switch 4. GSL1 series of residual current action circuit breaker 5. GSB series of micro circuit breaker</p>


**钢铁冶金系统**  
 Ferrous metallurgy system

**冷轧配电**

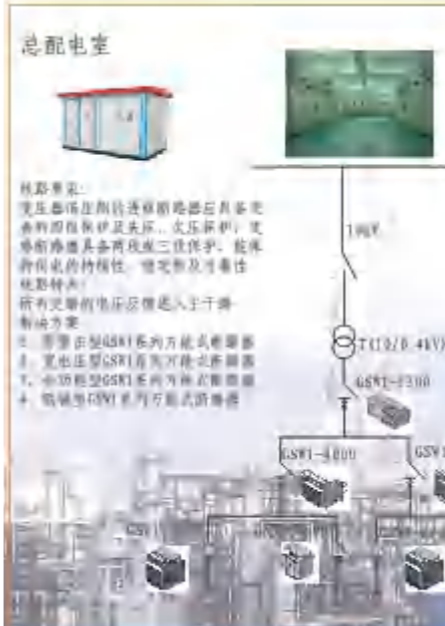
线路要求:  
进线断路器具有完善的三段保护及欠压保护,支路断路器具备两段或三段保护,能保持供电的持续性和稳定性。  
线路特点:  
冲击型负载,线路电压波动大  
解决方案:  
1. 宽电压型 GSWI 系列万能式断路器  
2. 全功能型 GSW1 系列万能式断路器  
3. GSMI 系列塑壳式断路器  
4. GSC2-115-2000 系列接触器



中文	英文
冷轧配电	Cold rolling distribution
<p><b>线路要求:</b> 进线断路器具有完善的三段保护及欠压保护,支路断路器具备两段或三段保护,能保持供电的持续性和稳定性。 <b>线路特点:</b> 冲击型负载,线路电压波动大 <b>解决方案:</b> 1. 宽电压型 GSWI 系列万能式断路器 2. 全功能型 GSW1 系列万能式断路器 3. GSMI 系列塑壳式断路器 4. GSC2-115-2000 系列接触器</p>	<p><b>Requirements on circuits:</b> The incoming circuit breaker shall have perfect three sectional protection and low-voltage protection. The branch circuit breaker shall have two or three sectional protection, guaranteeing the continuous, and stable power supply. <b>Characteristics of circuits:</b> Impacting type load, with large voltage fluctuation on circuits. <b>Solutions:</b> 1. Wide voltage type GSWI series of air circuit breakers; 2. Full-function type GSW1 series of air circuit breakers; 3. GSMI series of molded case circuit breakers; 4. GSC2-115-2000 series of contactors</p>

**总配电室**

线路要求:  
变压器低电压侧的进线断路器应具备完善的四段保护及失压、欠压保护,支路断路器具备两段或三段保护及漏电保护,能保持供电的持续性、稳定性和安全性。  
线路特点:  
所有支路的电压反馈进入主干路  
解决方案:  
1. 防雷击型 GSWI 系列万能式断路器  
2. 宽电压型 GSWI 系列万能式断路器  
3. 全功能型 GSW1 系列万能式断路器  
4. 联锁型 GSWI 系列万能式断路器



中文	英文
总配电室	Total distribution room
<p><b>线路要求:</b> 变压器低电压侧的进线断路器应具备完善的四段保护及失压、欠压保护,支路断路器具备两段或三段保护及漏电保护,能保持供电的持续性、稳定性和安全性。 <b>线路特点:</b> 所有支路的电压反馈进入主干路 <b>解决方案:</b> 1. 防雷击型 GSWI 系列万能式断路器 2. 宽电压型 GSWI 系列万能式断路器 3. 全功能型 GSW1 系列万能式断路器 4. 联锁型 GSWI 系列万能式断路器</p>	<p><b>Requirements on circuits:</b> The incoming circuit breaker of the low-voltage side of the transformer shall have perfect four sectional protection and non-voltage and low-voltage protection. The branch circuit breaker shall have two or three sectional protection and electric leakage protection, guaranteeing the continuous, stable and safe power supply. <b>Characteristics of circuits:</b> All the voltages on branches are reflected to enter into the main circuit <b>Solutions:</b> 1. Lightning protection type GSW1 series of air circuit breakers 2. Wide voltage type GSW1 series of air circuit breakers 3. Full-function type GSW1 series air circuit breakers 4. Interlocking type GSWI series of air circuit breakers</p>



XL-2I(M) 型动力配电箱

XPW-0.4 (M) model power distribution cabinet

GSXM 系列照明配电箱

GSXM series of lighting distribution cabinet

GSXMI 系列小型配电箱

GSXMI series of small-sized power distribution cabinet

GSXM2 系列小型配电箱

GSXM2 series of small-sized power distribution cabinet

GSXJ 系列计量箱

GSXJ series of measuring cabinet

GSXC 系列插座箱

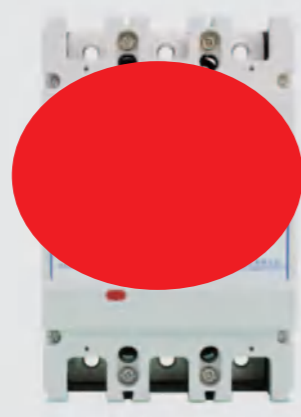
GSXC series of socket cabinet



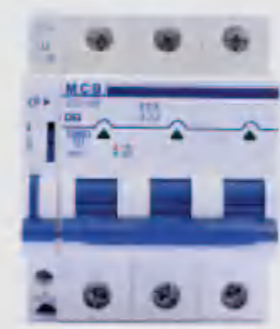
低压电器元件：控制、配电和仪表  
Low Voltage Electrical Components: Control, Distribution and Instruments



▲ 万能式断路器  
Universal circuit breaker



▲ GSM3 系列塑壳断路器  
GSM1 Series Moulded Case Circuit Breaker



▲ MCB 微型断路器 (1A-125A)  
Miniature Circuit Breaker



▲ GSL1 系列剩余电流动作断路器 (16A-630A)  
GSL1 Series Residual Current Operated Circuit Breaker



▲ GSM8 系列电动机保护断路器 (0.1A-80A)  
GSM8 Series Motor Protection Circuit Breaker



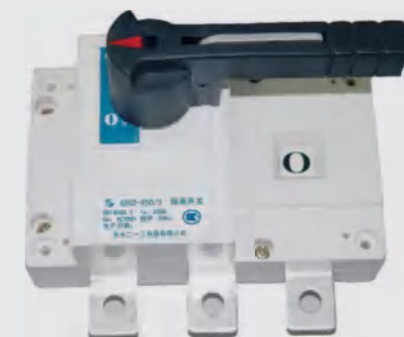
▲ 软启动器 Soft Starter

壳架等级电流 Inm Shell rating current	额定工作电流 In: (A) Rated operational current
1600A	200 400 630 800 1000 1250 1600
2000A	630 800 1000 1250 1600 2000
3200A	2000 2500 3200
4000A	4000
6300A	4000 5000 6300

壳架电流 Inm Shell rating current	额定工作电流 In: (A) Rated operational current
63A	10 16 20 25 32 40 50 63
100A	10 16 20 25 32 40 50 63 80 100
160A	100 125 140 160
225A	100 125 140 160 180 200 225
250A	100 125 140 160 180 200 225 250
400A	225 250 315 350 400
630A	400 500 630
800A	630 700 800



▲ GSA1、6、7 系列自动转换开关 (1A-6300A)  
GSA1、6、7 Series Automatic Transfer Switch



▲ GSG1、2 系列隔离开关 (16A-1600A)  
GSG1、2 Series Isolating Switch



智能电气元件和仪表  
Intelligent electrical component and meter

★电气仪表 Electric instrument



★工业控制元件 Industrial control components



▲ GSC3 系列接触器  
GSC3 series of  
contactor from 9A to  
95A



▲小型接触器  
Miniature contactor  
from 6A to 9A



▲直流操作交流接触器  
DC operated AC  
contactor from 6A to  
800A



▲ GSC2-F 系列接触器  
GSC2-F series of  
contactor  
from 115A to 2000A



▲单极直流接触器  
Single pole DC  
contactor



▲联锁接触器  
Interlocking contactor

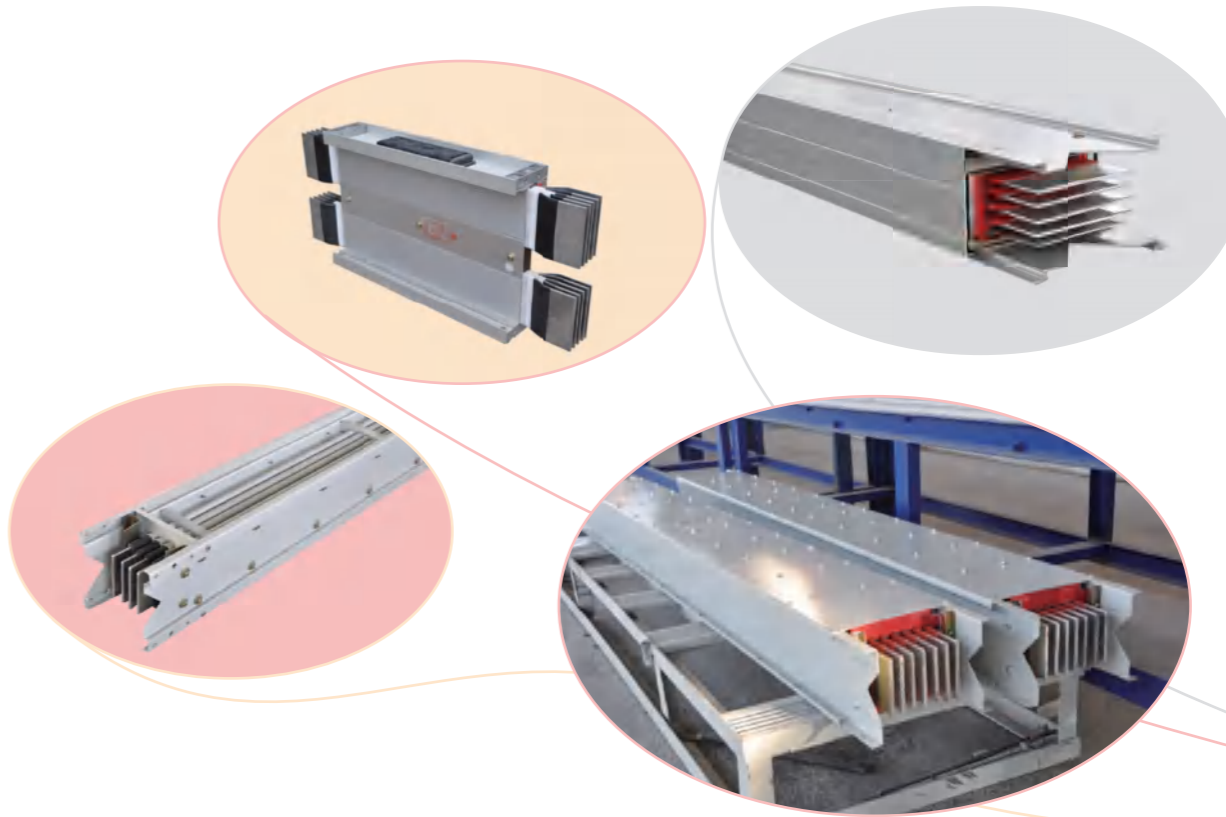


▲切换电容式接触器  
Capacitor changeover  
contactor



▲四极接触器  
4P contactor

★母线槽 Busway



名称 Name	参数 Parameter					
频率 Frequency Hz	50(60)					
额定绝缘电压 V Rated insulator voltage	1000					
额定工作电压 V Rated operational voltage	交流 220 380 690 Alternating current					
额定电流 A Rated current	100 200	160 250	400 800	630 800	1000 1250 1500	1600 2000 2500 3150 4000 5000 6300
额定短时耐受电流 KA/S Rated short time withstand current	12		30		50	80 100
额定峰值耐受电流 KA Rated peak withstand current	25		63		105	176 220
线制 wiring system	三相三线制 Three phase three wires 三相四线制 Three phase four wires 三相五线制 Three phase five wires					
防护等级 Protection grade	IP54					

# 企业荣誉 Enterprise honor

相互扶持，才能克服挑战  
团结协作，才能共创未来

In order to overcome the challenges that support  
Solidarity and cooperation to create a better future



Chapter Five

第五章

## QUALIFICATION DOCUMENTS AND TEST REPORTS

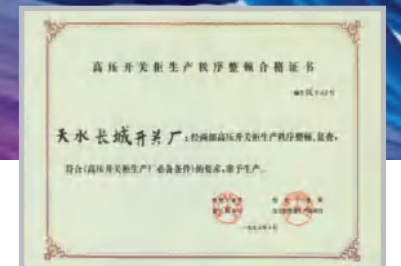
### 资质文件及试验报告



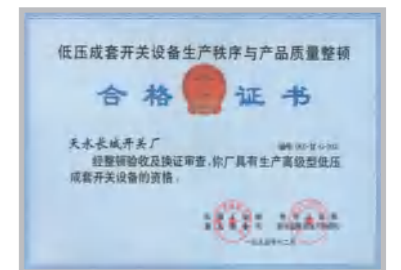
▲中压柜生产许可证  
Medium voltage cabinet production license



▲低压柜生产许可证  
Low voltage cabinet production license



▲中压成套开关设备及元件的证书  
Certificate of medium voltage switchgear and components



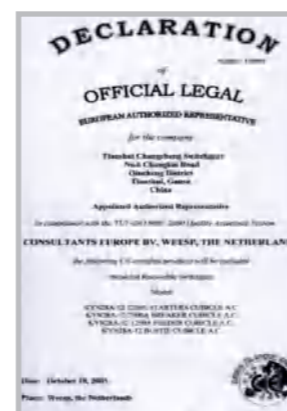
▲“长城”牌 0.4~126kV 中低压成套开关设备及真空断路器等元件  
Changcheng 0.4~126kV MV&LV Switchgear and VCB and other components.



▲“二一三”牌 低压接触器、微断、继电器、仪表等元件  
“二一三” Low voltage contactors, MCB, relays, meters and other components.



▲大型电气传动系统与装备技术国家重点实验室  
State Key Laboratory of large electrical drive systems and equipment technology



▲欧盟 CE 认证证书  
European Community CE Certificate



▲荷兰 KEMA 实验报告  
KEMA Test Report of Netherlands

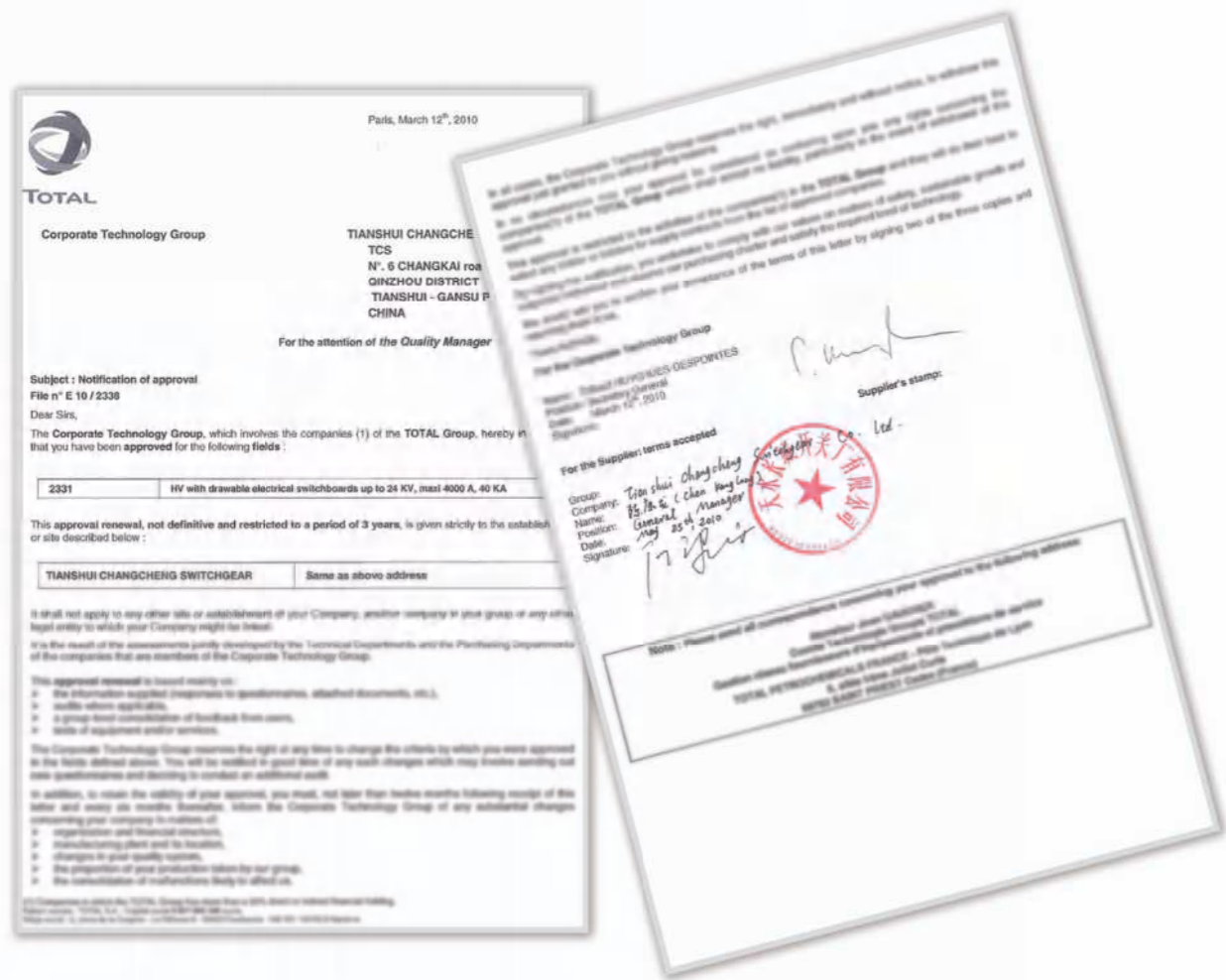


▲KYN28-12 开关柜的欧盟 CE 证书  
European Union CE certificate for KYN28-12 switchgear



▲KYN28 型开关设备的俄罗斯 GOST 证书  
Russian GOST certificate for KYN28 switchgear

**法国道达尔出具的公司 24kV 中压开关柜的入围证书**  
**Total's Total 24kV medium voltage switchgear certificate of entry**



**国家核安全局颁发的民用核安全设备设计制造许可证**  
**Civil nuclear safety equipment design and manufacture license issued by The State Nuclear Safety Administration**



**低压元件产品的证书**  
**Certificate of low voltage components**



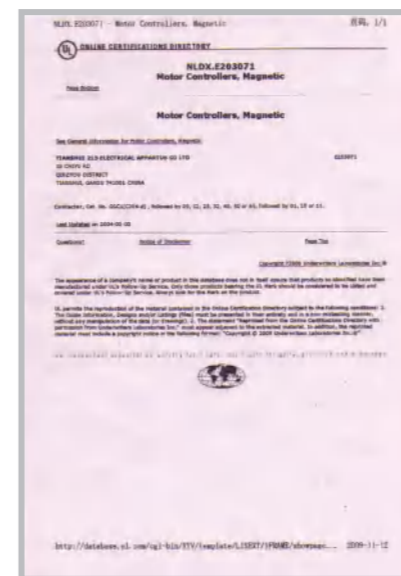
▲中国电气工业 100 强证书  
 Top 100 certificate of China Electrical Industry



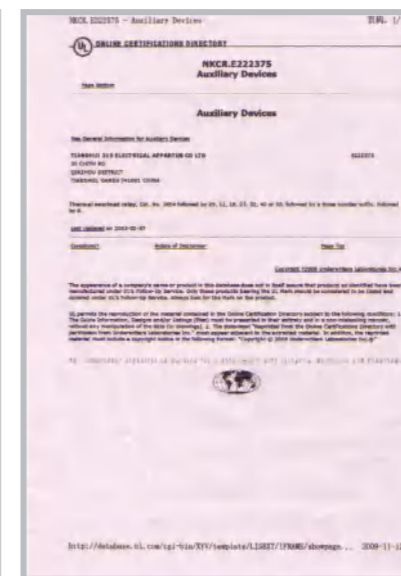
▲低压接触器的德国 TUV 认证  
 German TUV Certification of low voltage contactor



▲微型断路器的德国 TUV 认证  
 German TUV certification of miniature circuit breaker



▲低压接触器的 UL 认证  
 UL certification of low voltage contactor

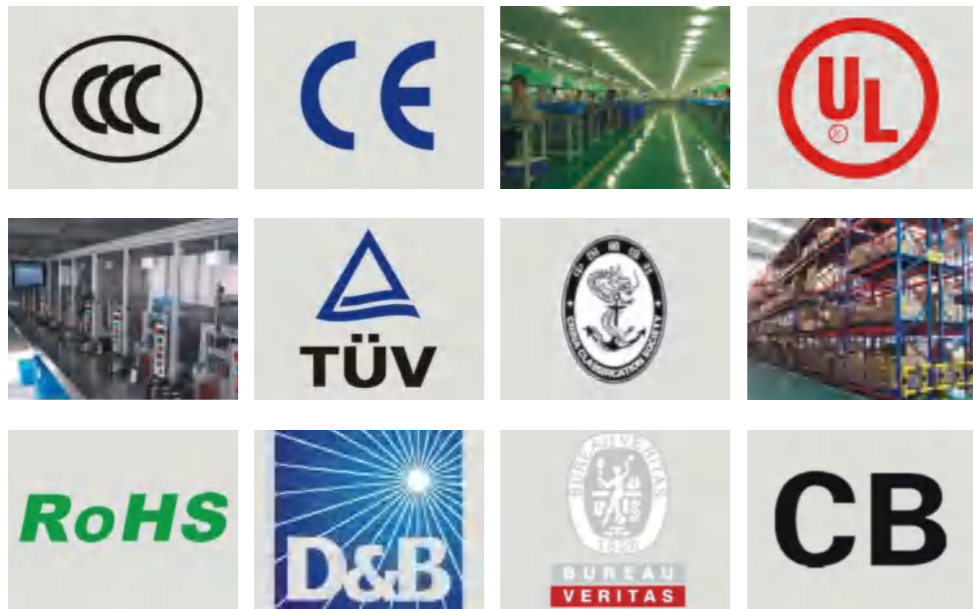


▲热继电器的 UL 认证  
 UL certification of thermal relay



**低压元件的其它认证**  
Other certification of low voltage components

主导产品都通过了中国 CCC、欧盟 CB、法国船级社、欧盟 RoHS 等认证  
The leading products have passed China CCC, EU CB, France Bureau Veritas, EU RoHS and other certification.



ISO9001 ISO14001 OHSAS18001



低压交流接触器、小型塑壳断路器被中国贸促会和法国科技质量监督评价委员会评为向欧盟市场推荐产品。

Low voltage AC contactor, miniature moulded case circuit breaker are recommended to the EU market by China Council for the Promotion of International Trade and France technology quality supervision and Evaluation Commission.

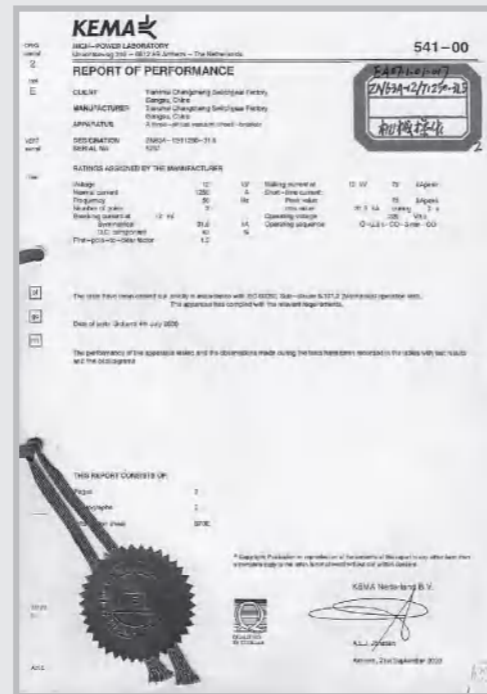
**其他获奖证书**  
Other award certificates



# TEST REPORTS

## 试验报告

荷兰凯马试验报告: ZN-12/1250-31.5 高压真空断路器  
Holland KEMA Test Report: ZN-12/1250-31.5 high voltage vacuum circuit breaker



### 合作伙伴 Cooperative partner



**强强联手**  
**Big mergers**  
强强联合 合赢天下  
Big mergers, Win-win world



Chapter Six  
**第六章**

# ACHIEVEMENT 业绩

公司产品主要配套于国内总包公司实现出口：

The company's products are mainly supplied to the domestic large EPC to achieve export:

中国机械设备进出口有限公司（CMEC）、山东电建、中色建设、中材国际、北方国际、中信建设、中冶天工、各大水泥设计院、化工设计院等总包、设计公司。

China Machinery and Equipment Import and Export Head Corporation (CMEC), Shandong Electric Power Construction Co., Ltd., China Nonferrous Metal Industry's Foreign Engineering and Construction Co., Ltd., Sinoma International Engineering Co., Ltd., NORINCO International, CITIC Construction, MCC Tiangong Group Corporation Limited., Major Cement Design Institutes, Chemical Design Institutes and other general contracting and design companies.

 **出口业绩**  
 Export performance

公司产品主要配套于国内总包公司实现出口：中国机械设备进出口有限公司（CMEC）、山东电建、中色建设、中材国际、北方国际、中信建设、中冶天工、各大水泥设计院、化工设计院等总包、设计公司。

The company's products are mainly supplied to the domestic large EPC to achieve export: China Machinery and Equipment Import and Export Head Corporation (CMEC), Shandong Electric Power Construction Co., Ltd., China Nonferrous Metal Industry's Foreign Engineering and Construction Co., Ltd., Sinoma International Engineering Co., Ltd., NORINCO International, CITIC Construction, MCC Tiangong Group Corporation Limited., Major Cement Design Institutes, Chemical Design Institutes and other general contracting and design companies.

序号 Series No.	项目名称 Project name	型号规格 Type	数量 Q'ty	交货日期 Date of delivery	行业 Industry
1	印尼中爪哇 CILACAP 2×300MW 燃煤电站项目 Indonesia CILACAP 2×300MW Power Station Project	KYN18C-12	110	2005-2-28	电站、发电 Power station, power generation
2	印尼拉布湾 2×300MW 燃煤电站项目 Indonesia LaBu bay 2×300MW Power Station Project	KYN28A-12	115	2007-10-13	电站、发电 Power station, power generation
3	印度尼西亚 AUMATERA BARAT 2×112MW 燃煤电站第四批 Indonesia AUMATERA BARAT 2×112MW Power Project Four group of auxiliary equipment project	KYN28A-12	82	2010-4-21	电站、发电 Power station, power generation
4	印度尼西亚广青镍业有限公司年产 60 万吨镍铁冶炼及其配套 2X150MW 火力发电项目 Indonesia GCNS co., LTD., with annual capacity of 600000 tons of nickel iron smelting and 2 x150mw Thermal Power Project	KYN28A-12	118	2015-7-5	钢铁 Steel
5	印尼青山不锈钢有限公司年产 100 万吨不锈钢连续铸坯及其配套 2X350MW 火力发电项目 Indonesia GCNS with annual capacity of 1 million tons of stainless steel continuous casting slab and its supporting 2 x350mw Thermal Power Project	KYN28A-12	97	2016-7-21	发电 Power generation
6	印尼卡尔滕 KALTENG-1 2X100MW 燃煤电站 Indonesia Kalteng-12x100MW Coal-fired Power Station	KYN28A-12	73	2017-7-20	电厂 Power plant

序号 Series No.	项目名称 Project name	型号规格 Type	数量 Q'ty	交货日期 Date of delivery	行业 Industry
7	印尼东加 EMBALUT 2X100MW 电厂项目 Indonesia Tonga EMBALUT 2X100MW Power Plant Project	KYN79A-24	71	2018-2-20	电厂 Power plant
8	印尼芝拉扎燃煤电站三期 1X1000MW 机组扩建 项目 Indonesia Chiraza Coal-fired Power Station Phase III 1X1000MW Unit Extension Project	KYN28A-12	91	2018/5/30	电站 Power station
9	阿曼 RAYSUT 水泥公司 3# 生产线 Amen RAYSUT Cement Corporation 3# Production Line	KYN18C-12	35	2005-1-10	水泥、建材 Cement, building materials
10	老挝水泥工业有限公司 2500t/d 生产线 Lao Cement Industry Co., Ltd.(2500t/d)	KYN18C-12	41	2005-10-20	水泥、建材 Cement, building materials
11	巴基斯坦 BESTWAY 5350T/D 熟料水泥生产线 工程 Pakistan BESTWAY 5350T/D Cement Production Line	KYN28A-12	82	2005-11-9	水泥、建材 Cement, building materials
12	巴基斯坦拉合尔轨道交通橙线项目 Lahore, Pakistan Subway Orange Line Project	i-AY1-40.5	541	2016-10-25	地铁 Subway
13	巴基斯坦信德省塔尔煤田 II 区块 2X330MW 燃煤 电站 Pakistan's Sindh Province Tal Coalfield II Block 2 x330MW Coal-fired Power Station	KYN28A-12	120	2017-4-8	电厂 Power plant
14	刚果共和国英布鲁水电枢纽工程 Republic of Congo Imboulou Hydropower Project	KYN18C-12	42	2007-4-1	水电、发电 Hydropower, power generation
15	刚果(布)利韦索水电站配套 输变电项目北部工程 Congo Liouesso Hydropower Station Power Transmission Project Northern Section Cabinet	i-AY1-40.5	20	2014-5-26	水电 Hydropower
16	刚果(金)卡莫亚铜钴矿一期工程总降变电站 Congo (kinshasa) card moya copper and cobalt ore drop substation Construction Site	KYN28A-12、 MNS	48	2015-10-15	矿业 Mining
17	马达加斯加燃油电站 20KV 开关柜项目 Madagascar Oil Station Project	I-AX	5	2008-9-5	电站、发电 Power station, power generation

序号 Series No.	项目名称 Project name	型号规格 Type	数量 Q'ty	交货日期 Date of delivery	行业 Industry
18	越南向阳水泥股份有限公司 Vietnam HE DUONG CEMENT JOINT STOCK COMPANY	KYN18C-12	64	2010-4-13	水泥、建材 Cement, building materials
19	越南和发榕桔综合钢厂 4*60MW 发电项目一期工程 Vietnam Hoa Phat Rongju Integrated Steel Works 4*60MW Phase I of Power Generation Project	KYN28A-12、 i-AY1-40.5	8+41	2018/3/30	钢铁 Steel
20	越南和发榕桔综合钢厂 4*60MW 发电项目二期 工程 Vietnam Hoa Phat Rongju Integrated Steel Works 4*60MW Phase II of Power Generation Project	KYN28A-12、 i-AY1-40.5	8+41	2018/6/30	钢铁 Steel
21	印度 JHARSUGUDA 9×135MW 燃煤自备电站 项目 India JHARSUGUDA 9×135MW Power Station Project	KYN28A-12	456	2007-7-30	电站、发电 Power station, power generation
22	印度 JHARSUGUDA6×600MW 燃煤独立电站 项目 India JHARSUGUDA6×600MW Power Station Project	KYN28A-12	118	2007-5-31	电站、发电 Power station, power generation
23	印度 BALCO 4×135MW 燃煤自备电站项目 6KV 开关柜 India BALCO 4×135MW Coal Self- Provided Power Plant Project 6 kv Switch Cabinet	KYN28A-12	305	2008-5-8	电站、发电 Power station, power generation
24	印度 GMR KAMALANGA 3×350MW 燃煤电站 项目 India GMR KAMALANGA 3×350MW Power Project	KYN28A-12	190	2010-3-2	电站、发电 Power station, power generation
25	印度嘉佳发电厂 2×660MW 超临界燃煤机组工 程 India JiaJia Power Supply 2×660MW Supercritical coal-fired unit engineering	KYN28A-12	218	2009-4-23	发电 Power generation
26	印度海天项目 India Haitian Group Project	KYN28A-12	15	2017-9-30	电厂 Power plant
27	印度 OPPO 手机工厂项目 India OPPO Phone Factory Project	KYN28A-12	65	2018-4-30	手机 Mobile phone
28	KDMP(赞比亚康科拉铜矿)竖井项目 Zambia Kangkela copper mine Project	KYN28A-12	34	2007-2-28	矿业 Mining

序号 Series No.	项目名称 Project name	型号规格 Type	数量 Q'ty	交货日期 Date of delivery	行业 Industry
29	塔吉克斯坦 220KV 输变电工程哈德龙变电站 Tajikistan 220KV Power Transmission And Transformation Engineering HaDeLong Substation	KYN18C-12	20	2007-4-30	电站、发电 Power station, power generation
30	土耳其 ASKALE 水泥厂车间成套设备出口项目 Turkish ASKALE Cement Factory Workshop Equipment	KYN28A-12	14	2007-4-30	水泥、建材 Cement, building materials
31	安哥拉社会住房项目高压输变电工程 Angola Social housing project High voltage Power Transmission And Transformation Project	KYN79-24	92	2009-4-21	住宅 Residence
32	乌兹别克斯坦阿拉特泵站项目 Uzbekistan AlaTe pump station Project	KYN28A-12	33	2012-5-11	泵站 Pumping station
33	埃塞俄比亚东方水泥股份公司 1500t/d 熟料干法水泥线 Ethiopia the East Cement Co., LTD 1500t/d Clinker Dry Process Cement Production Line	KYN18C-12	31	2009-11-26	水泥、建材 Cement, building materials
34	缅甸达贡山镍矿项目 35KV、10KV 开关柜 Burma DaGongShan Nickel Project 35KV、10KV Switchgear	KYN28A-12	135	2010-4-21	冶金 metallurgy
35	缅甸蒙育瓦莱比塘矿建设设备万宝矿产(缅甸)铜业 Myanmar Monywa Lepadaung Mine Construction Machineries WanBao Mining(Myanmar)	KYN28A-12	214	2013-6-8	矿业 Mining
36	苏丹吉里 4 期 2×55MW 石油焦电站工程 SuDan JiLi 2×55MW Petroleum Coke Power Station	KYN28A-12	34	2007-5-24	电站、发电 Power station, power generation
37	罗安达市电网修复和扩建工程三期项目 Angola LuoAnDa Grid Repair And Expansion Project	KYN79-24	37	2008-7-24	供电 Power Supply
38	赤道几内亚马拉博 66KV 电网项目 Equatorial guinea Malabo 66KV Power Grid	KYN79-24	89	2008-7-10	供电 Power Supply
39	马来西亚巴林基安 2X300MW 燃煤电站 Malaysia Balingian 2 x300mw Coal-fired Power Station	KYN28A-12	117	2016-7-1	电厂 Power plant
40	几内亚科纳克里应急柴油发电机组项目 Guinea Kenakeli Emergency Diesel Generator Set	KYN79-24	38	2009-7-31	电站、发电 Power station, power generation

序号 Series No.	项目名称 Project name	型号规格 Type	数量 Q'ty	交货日期 Date of delivery	行业 Industry
41	巴布亚新几内亚扬开坝 2×9MW 水电站项目 11KV 项目 Papua New Guinea YangKaiBa 2×9MW Water Station Project 11KV Switchgear Project	KYN28A-12	11	2009-3-30	水电、发电 Hydropower and power generation
42	吉尔吉斯 Bozymchak 铜金矿选矿厂项目 Kirghizia Bozymchak Copper Gold Ore Dressing Plant	XGN35-12	3	2010-2-2	矿业 Mining
43	博茨瓦纳 Morupule B 4×150MW 燃煤电站项目 Botswana Morupule B 4×150MW Power Project	KYN28A-12	235	2010-7-20	电站、发电 Power station, power generation
44	菲律宾马利万斯 2×300MW 燃煤电站 Philippines, MaLiWanSi 2×300MW Power Station	KYN28A-12	152	2010-11-15	电站、发电 Power station, power generation
45	东帝汶电网、电站及配套设施建设工程 20KV 开关柜 Timor Leste State Grid、Power Station And Supporting Facilities Construction 20kV	KYN79-24	41	2011-4-22	电站、发电 Power station, power generation
46	厄瓜多尔国 CCS 水电站项目 Ecuador countries CCS Water Power Project	KYN28A-12	24	2011-5-26	发电 Power generation
47	委内瑞拉新中心电厂项目 Venezuela The new center power plant project	KYN79-12	56	2011-5-17	电厂、发电 Power plant, power generation
48	斯里兰卡普特拉姆二期 2×300MW 燃煤电站项目 Sri Lanka Putelamu Second 2×300MW Power Station	KYN28A-12	132	2011-5-6	电站、发电 Power station, power generation
49	柬埔寨西哈努克港 2X60MW 燃煤电厂工程 Sihanoukville 2X60MW Power Station Project	KYN18C-12 KYN18C-12F-C	53	2012-2-16	热电 Thermoelectricity
50	柬埔寨泰文隆水泥公司 3300t/d 水泥生产线技改项目 Cambodian Taiwenlong Cement Company Technical Reform Project of 3300t/d Cement Production Line	KYN28A-12	30	2018/11/20	水泥 Cement



序号 Series No.	项目名称 Project name	型号规格 Type	数量 Q'ty	交货日期 Date of delivery	行业 Industry
51	危地马拉 JAGUAR2X150MW 电站项目 Guatemala JAGUAR2X150MW Power Station	KYN79-12 (F-C)	76	2011-12-28	电站、发电 Power station, power generation
52	巴西水泵工程 Brazil's Water Pump Engineering	KYN28A-15	11	2013-7-10	水利 Hydraulic
53	伊朗德黑兰地铁四号线 B3 高压站工程 Iran Tehran Metro Line 4 B3 High-Voltage Station	KYN79-24/MNS	64+5	2013-7-25	地铁 Subway
54	哈萨克斯坦标准水泥有限公司 Kazakhstan Standard Cement Co.,Ltd	KYN28A-12	57	2013-12-9	水泥 Cement
55	孟加拉波拉 225MW 联合循环电站项目 Bangladesh Bhola 225MW Combined Cycle Power Station	KYN28A-12\i-AY1-40.5	35+4	2014-1-20	电站、发电 Power station, power generation
56	莫桑比克卡拉 110kV 输电线路项目 Mozambique Kara 110kV Transmission Line Project	i - AZ1A-40.5	4	2015-1-26	输配电 Power Transmission and Distribution
57	埃及 E1 Nahda 工业公司煤 / 油页岩粉末生产线 EP 工程 Egypt E1 Nahda Industrial EP/coal Shale Powder	KYN28A-12	7	2015-4-30	煤电 Coal power
58	白俄罗斯维捷布斯克水电站项目 Belarus Vitebsk Hydroelectric Project	KYN28A-12	66	2015-4-5	水电 Hydropower
59	泰国 TPI PP 垃圾发电厂二期工程 Thailand TPI PP Garbage Power Plant Phase II Project	KYN28A-12	33	2015-12-17	发电 Power generation
60	格鲁吉亚 LLC 先锋水泥有限责任公司年产 30 万吨水泥粉磨站项目 Georgia LLC Pioneer of Cement Limited 300000 tons of Cement Grinding Station Project	KYN28A-12	6	2016-3-25	水泥、建材 Cement, building materials
61	伊拉克 SAMAN 5000T/D 熟料水泥生产线工程 Iraq SAMAN5000T/D Cement Clinker Production Line Project	KYN28A-12	51	2016-5-14	水泥 Cement
62	巴拉圭 INC90TPH 水泥粉磨站项目 Paraguay INC90TPH Cement Grinding Station Project	KYN28A-12	7	2016-8-20	水泥 Cement
63	纳米比亚鲸石水泥有限公司年产 150 万吨水泥生产线项目 Namibia Cement Co., Ltd. Annual Output 1.5 Million Tons Cement Production Line Project	KYN28A-12	62	2017-2-8	水泥 Cement
64	亚美尼亚高压电网公司变电站项目 Armenian High Voltage Power Grid Corporation Power Station	KYN28A-12	27	2017-8-15	电站、发电 Power station, power generation

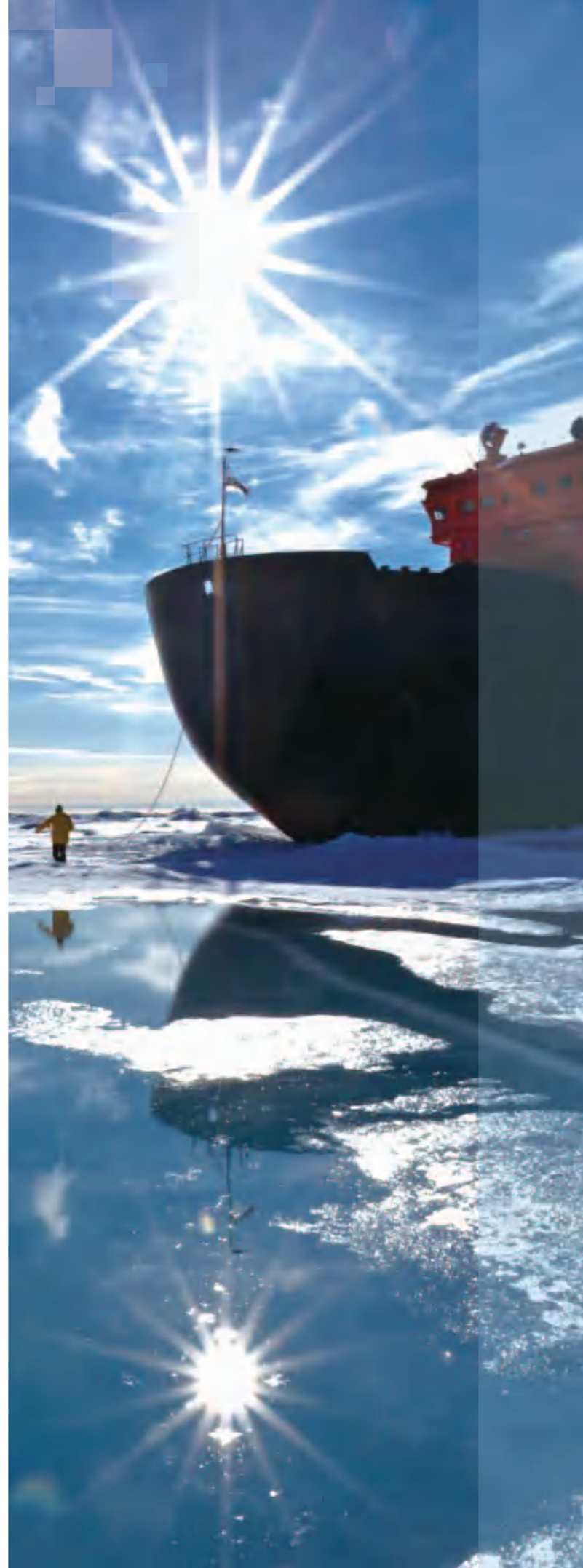

**现场调试、客户来访掠影**  
 On-site debugging and customer visits


# APPLICATION FIELDS

## 应用领域

公司产品在发电、输配电、石化、交通、矿山、冶金、通讯、机床等国民经济的重要领域具有良好的声誉。在南极中山站、长城站，三峡工程，载人航天工程，奥运鸟巢，青藏铁路，北京地铁、兰州地铁等国家重点工程项目中发挥了重要作用。公司产品覆盖全国并远销欧、亚、非等 62 个国家和地区。

GWE products has a good reputation in the power generation, transmission and distribution, petrochemical, transportation, mining, metallurgy, communications, machine tools and other important areas of Chinese economy. It has played an important role in Great Wall Railway Station, Antarctic Zhongshan Station, the Three Gorges Project, the Olympic Bird's Nest, the Qinghai Tibet railway, Beijing metro, Lanzhou Metro and other national key projects. Company's products covered the China and exported to Europe, Asia, Africa and other 62 countries and regions



● 电厂  
Power plant



● 电网  
Power grid



● 铁路  
Railway



● 石化  
Petrifaction



● 石油  
Petroleum



● 冶金  
Metallurgy



● 钢厂  
Steel mill



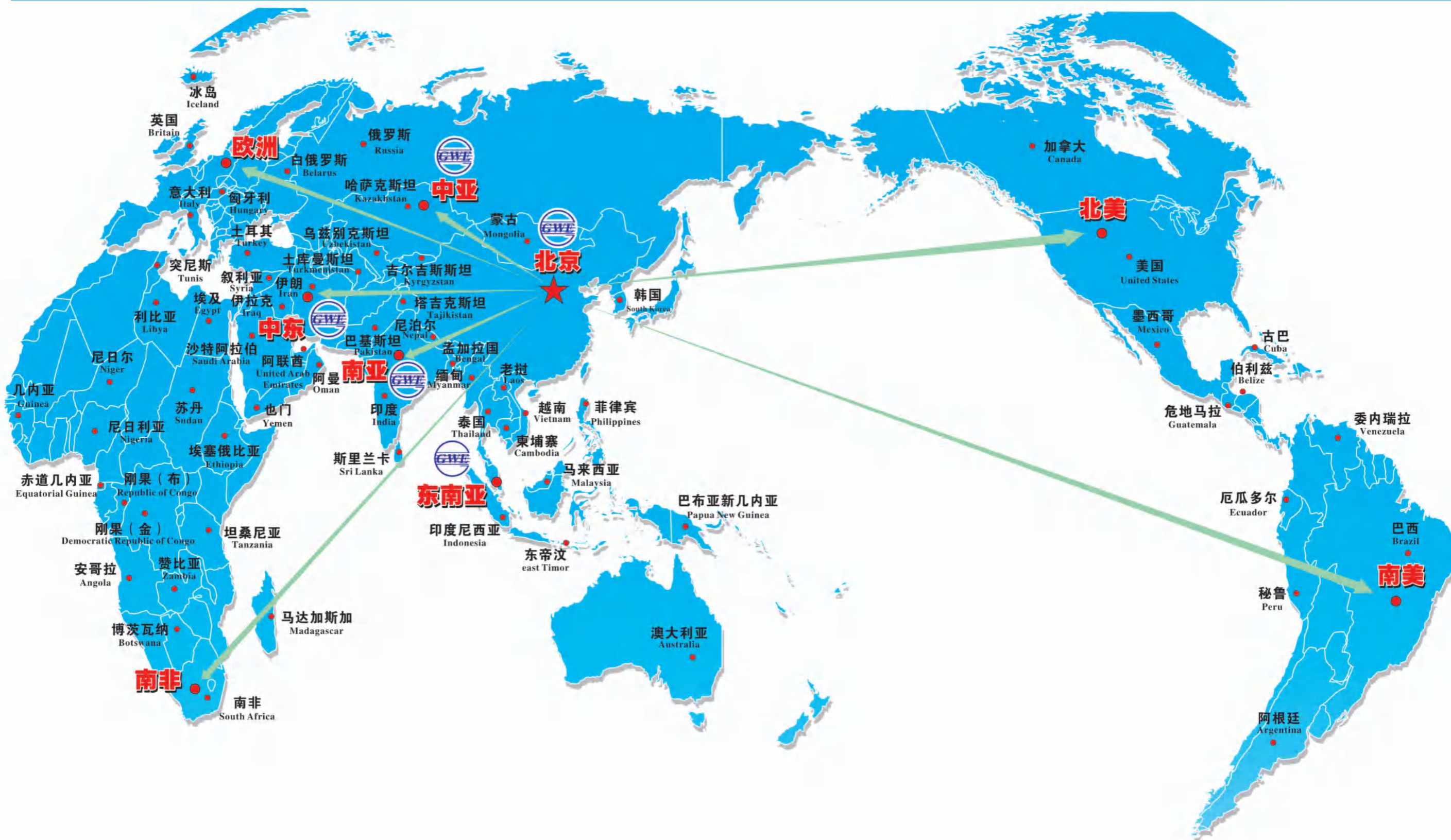
● 水泥  
Cement



● 公路  
Highway



国际营销网络



携手并肩 共创未来

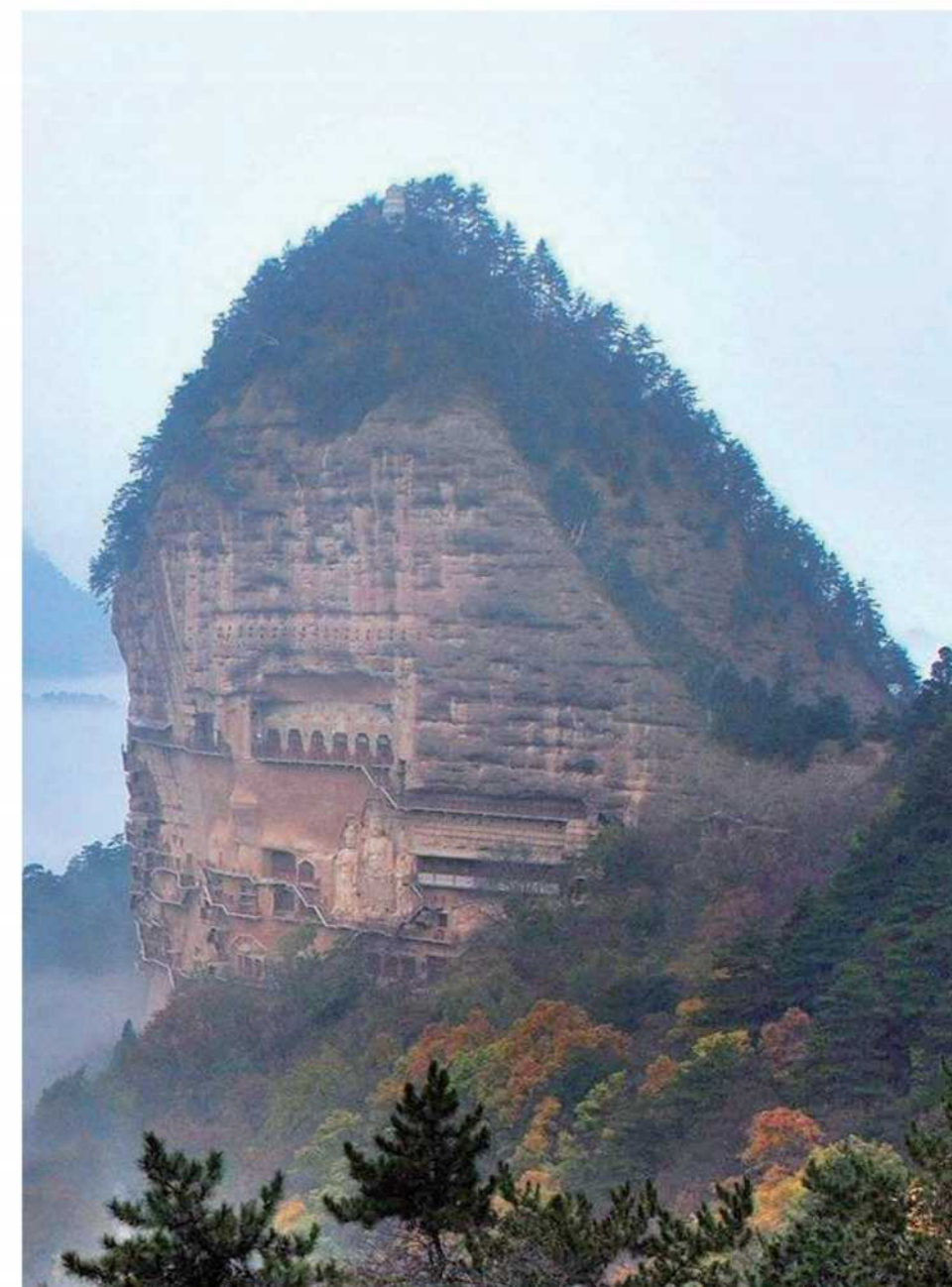


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