







上海电气输配电集团有限公司 Shanghai Electric Power Transmission and Distribution Group Co., Ltd.

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结合"构建新型电力系统"和实现"双碳目标",希望"成为输配电领域集成化、智能化和综合解决方案提供商和行业标杆"的战略愿景,在形成智能化、数字化和低碳化输配电核心装备、具备提供整体解决方案能力,并打造一批冲击行业第一阵营和标杆企业的目标。

In combination with "building a new power system" and "achieving the goal of carbon peak and carbon neutralization", with the strategic vision of "becoming an integrated, intelligent and comprehensive solution provider and industry benchmark in the field of power transmission and distribution", the Group will form the manufacturing capacity of intelligent, digital and low-carbon power transmission and distribution core equipment, have the ability to provide overall solutions, and build a number of enterprises that impact the first camp and benchmark of the industry.

〉上海电气输配电集团有限公司

SHANGHAI ELECTRIC POWER TRANSMISSION AND DISTRIBUTION GROUP CO., LTD.

上海电气输配电集团有限公司(以下简称"集团"),是上海电气集团旗下重要产业板块。专业从事输配电产品和控制设备的研发、设计、制造、销售、电力工程总承包业务,以及输配电领域的技术服务和咨询等。

2011年由上海电气与上海电力(股比50:50)合资成立输配电集团有限公司,整个集团规模得到进一步扩大,经营范围不断拓宽,实现了输配电产业链。主要产品涵盖高压化、智能化、电力电子化及工程服务"3+1"产业体系,有变压器、电缆、开关柜、元器件、电力电子、二次设备等多个产品系列,覆盖了1000kV及以下各电压等级,广泛用于电力、水利、轨交、邮电、通讯、轻纺、石化、冶矿、建筑等不同领域。

目前,集团年销售规模已超过百亿,有18家下属企业。近年来,集团大力开拓市场,形成了"稳住沪内、突破周边、辐射全国"的网点布局,并积极开发工业客户,拉动业内配套。在响应国家"一带一路"倡议方面,集团以所拥有的工程成套资质不断拓展海外EPC市场,为客户提供包括投融资在内的输配电总承包解决方案。

集团始终致力于打造"国际领先、国内一流"的输配电装备 行业领军者,成为具备集成能力和综合解决方案的供应商, 竭诚为广大国内外用户提供优质的产品和高效的服务。

集团产业链齐全、产品门类丰富,形成了高压化、智能化、电力电子化及现代化服务的产业结构体系。聚焦智能电网新技术、新产品,推进新能源接入、柔性输电;发展在线监测、分布式能源及储能技术;开发智能变电站,充分发挥自身优势、抢占市场先机;在智能电网系统集成、工程总包、设备成套、检修、售电等一体化服务上搭建整体解决方案服务平台。

Shanghai Electric Power Transmission and Distribution Group Co., Ltd. (hereinafter referred to as "the Group") is an important industrial sector of Shanghai Electric Group, specializing in the R&D, design, manufacturing, sales of power transmission and distribution products and control equipment, general contracting business of power engineering, as well as technical services and consulting in the field of power transmission and distribution.

In 2011, Shanghai Electric and Shanghai Electric Power (shareholding ratio: 50:50) jointly established the Power Transmission and Distribution Group Co., Ltd., furthering expanding the scale of the whole group, continuously widening the business scope, and attaining the transmission and distribution industry chain. The main products cover "3+1" industrial system of high voltage, intelligence, power electronics and engineering services, including transformer, cable, switch cabinet, components, power electronics, secondary equipment and other product series, covering voltage levels of 500kV and below, widely used in a variety of fields like power, water conservancy, rail transit, post and telecommunications, communications, light textile, petrochemical, metallurgy, and construction.

At present, the annual sales of the Group has exceeded RMB 10 billion, with 18 affiliated enterprises. In recent years, the Group has vigorously developed the market, formed a network layout of "stabilizing Shanghai, breaking through the surrounding areas and radiating the whole country", and actively developed industrial customers to promote the supporting industry. In response to the "One Belt, One Road" initiative, the Group has expanded its overseas EPC market with its complete set of qualifications, and provided EPC solutions for power transmission and distribution, including investment and financing.

The Group has always been committed to building an "international leading and domestic first-class" enterprise in the power transmission and distribution equipment industry, becoming a supplier with integrated capabilities and comprehensive solutions, and providing high-quality products and efficient services to a wide range of users at home and abroad.

The Group has a complete industrial chain and extensive product categories, forming an industrial structure system of high-voltage, intelligent, power electronic and modern services. It's dedicated to developing new technologies and products of smart grid, and promoting new energy access and flexible transmission; developing online monitoring, distributed energy and energy storage technologies; developing smart substations, giving full play to its advantages and seizing market opportunities; building an integrated solution service platform based on comprehensive services such as smart grid system integration, EPC, complete-set equipment, overhaul, power trading, etc.

〉战略定位

STRATEGIC POSITIONING

结合能源转型趋势,输配电集团正在加快产业"数智化、低碳化" 转型,通过打造"数智输配电生态圈",积极构建以新能源为主体 的新型电力系统。

In the context of the current energy transformation, the group is accelerating the industrial transformation of "digital intelligence and low-carbon", creating a "digital intelligence transmission and distribution ecosystem", actively building a new power system with new energy.

低碳环保成输配电装备改进的方向

集团成功研制了节能型、环保型以及植物油变压器; 积极推 广环保型气体绝缘开关柜,大幅降低温室气体排放;自主研 发的国内首根环保型聚丙烯材料PP电缆已连续在国家电网挂 网试运行近2年,该材料制备的过程降低了40%的二氧化碳排 放量。

创新科技引领发展目标

集团聚焦特高压领域,2000kV试验变压器研制成功,跨入装 备新能级领域;海陆变桨产研结合,实现突破,陆上5MW及 以下风力发电机组的全系列研发完成,海上产品覆盖 5-11MW机组应用,取得海上6.25MW风机变桨应用业绩; "综合电能质量智能补偿装置"获中国电源学会科技进步二 等奖, 电能质量治理装置技术已达国内一流水平。

数字化、智能化产品产线加速落地

上海人民电器厂智能制造项目被列入上海电气集团内部第一 The intelligent manufacturing project of Shanghai Renmin Electrical 批智能制造示范项目之一, "百年上联"焕发新活力;加速 一二次融合环网柜标准化订制方案推进,推进智能DTU在传 统变压器、中置柜中的应用,以测量数字化、控制网络化、 状态可视化、功能一体化智能电力设备支撑产业转型。

模式创新再塑新辉煌

势, 为客户提供"配电网运营+节能服务+分布式能源+储能+ 售电业务"的综合能源服务;成功中标广东粤电大埔电厂储 能调频项目,补齐了储能领域应用全场景,成为首个"投建 营"模式的火储联合调频项目;"孤岛微电网项目"应用了 统,为丛林村庄约100户居民以及学校提供绿色电源,实现不 间断供电,作为集团第一个孤岛微电网项目,逐渐由示范项 目走向模式复制。

Low carbon and environmental protection become the direction of improving transmission and distribution equipment

The Group has successfully developed energy-saving and environment-friendly vegetable oil transformers, and actively promotes environmental friendly gas insulated switchgear that significantly reduce greenhouse gas emissions. Additionally, the Group independently nvented the first environmentally friendly PP cable in China which can reduce the carbon dioxide emission by 40% during the preparation process of the material. The PP cable has been successfully put into trial operation in the State Grid for nearly 2 years.

Innovative technology leads to new development goals

The Group has focused on the UHV field, successfully developed the 2000kv test transformer, and stepped into the field of higher voltage level equipment. The combination of marine and land variable pitch production and research has achieved a breakthrough. The research and development of a full range of onshore 5MW and below wind turbines has been completed. The offshore products can cover the application of 5-11mw units. The group has achieved the performance of offshore 6.25mw wind turbine pitch application. "Integrated power quality intelligent compensation device" won the second prize of scientific and technological progress of China power supply society, and the technology of power quality control device has reached the domestic first-class level.a

The implementation of digital and intelligent product lines was accelerated

Apparatus Works of SEAC was listed as one of the first batch of intelligent manufacturing demonstration projects within Shanghai Electric Group. "Centennial Shanglian" brand radiates new vitality. The group promotes the standardization and customization scheme of primary and secondary integrated ring main unit, apply intelligent DTU to traditional transformer and central cabinet. The industrial transformation is supported by intelligent power equipment with measurement digitalization, control networking, state visualization and function integration.

The innovation of business model creates brilliant achievements

售电业务,碳电协同。利用变电站智能维保用户侧数据优 Power trading service coordinates the relationship between carbon and electricity. Take the advantage of user side data gathering by substation intelligent maintenance, the group provides customers with comprehensive energy services of "distribution network operation + energy saving service + distributed energy + energy storage + power sales business". The group successfully won the bid for the energy storage and frequency modulation project of Guangdong Yuedian Dapu power plant, complemented the whole application scenario in the energy storage field, and became the first joint frequency modulation project of thermal power 自主研发的孤岛电网用储能系统和控制保护与能量管理系 generation and energy storage under the "investment, construction and operation" mode. The "isolated island microgrid project" applies the independently developed energy storage system, control protection and energy management system, provides uninterrupted green power supply for about 100 residents and schools in jungle villages. As the first isolated island microgrid project of the Group, it is gradually moving from a demonstration project to a model replication.

历史沿革 **HISTORY**

2011年

上海电气输配电集团 上海电气输配电集团有限公司

2008年

上海电气输配电集团

2004年

上海电气输配电股份有限公司

1992年

上海电器股份有限公司(1993年上市)

1987年

上海电器(集团)公司

1960年

上海电器工业公司

1956年

上海电力设备制造公司

起步

1907年,上海继电器厂 1912年,上海电器成套厂 1914年,上海人民电器厂 1921年,上海变压器厂

06

输配电网 TRANSMISSION AND

DISTRIBUTION NETWORK



Complete-set Equipment







分布式能源系统 Distributed Energy System Micro-grid



E ♦ P C 输配电EPC **EPC Project**



变电站 Substation



Energy Storage

电缆

Smart Switch Component













电能质量控制





智能开关元件 智能电力终端





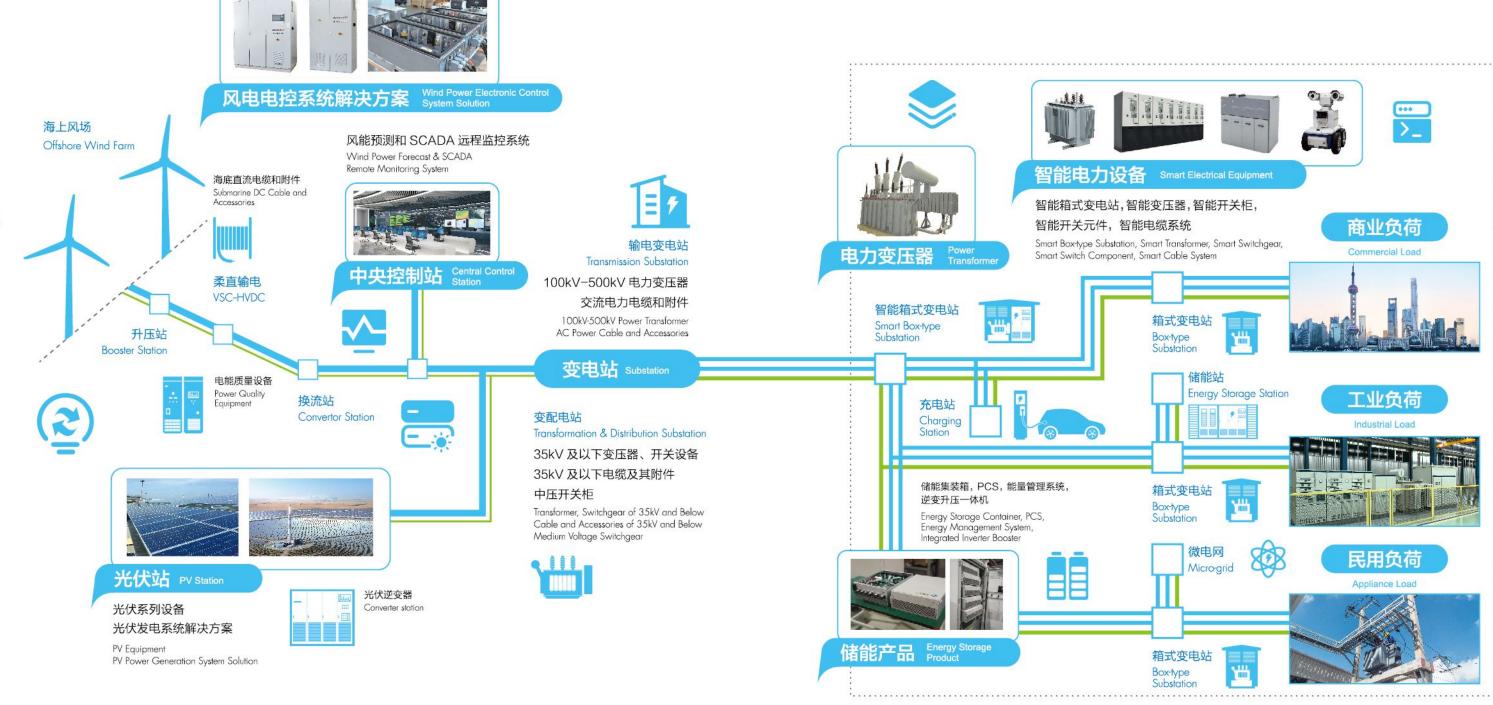
能量管理设备

能量路由器

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智能电网综合解决方案

SMART GRID SOLUTION



基于各种现场总线技术、移动通信网络技术、电力自动化控制技术和智能化管理技术,有利 于能源管理,实现遥测、遥信、遥控、遥调、故障定位和报警、配电管理,为用户实现配电智 能化提供全方位、高性价比的智能管理手段和综合解决方案。

Based on various fieldbus, mobile communication network, electric power automation control and intelligent management technologies, the platform can help with energy management and realize remote measuring, remote signaling, remote control, remote regulating, fault locating and alarm, and power distribution management, providing comprehensive, cost-effective intelligent management tools and integrated solutions for users.

风电变桨系统

Wind Power Variable Pitch System

- 可靠性高,维护成本低
- 环境适应能力强
- 具备高低穿功能,集成化、通用化、智能化
- 驱动系统结构简单
- High reliability, low maintenance cost
- High environmental adaptability
- HVRT and LVRT functions, integrated, universal, intelligent
- Simply structured drive system



风电电控系统一体化解决方案

Integrated Solution of Wind Power Electronic Control System

- 包括风电变流器、主控系统、变桨系统的控制功能整合, 使风机运行更加协调。
- 更好的实时性, 更高的可靠性、以及更方便的可维护性。
- 更完善的录波机制,记录电控系统各部件的实时状态以供 故障预警与分析。
- 快捷、贴心的一站式售后服务。
- 通过国网电科院 LVRT 张北认证。
- 并通过国网电科院模型一致性认证。
- o It integrates the control functions of wind power converter, master control system and variable pitch system, ensuring more coordinated running of the fans.
- O It boasts better real-time performance, higher reliability and easier maintenance.
- O It has an enhanced recording mechanism that can record the real-time states of the electronic control system's various parts for early fault alert and analysis.
- Quick and well-considered one-stop after-sales service.
- It has obtained the LVRT Zhangbei Certification from the State Grid Electric Power Research Institute.
- It has also obtained the Model Consistency Certification from the State Grid Electric Power Research Institute.

风电主控系统

Wind Power Master Control System

- 一体化控制解决方案
- 先进的 SCADA 系统
- 优化的功率控制
- 海上冗余控制技术
- 传动链载荷优化
- 完善的故障诊断

• 可编程独立安全控制器

- Optimized power control
- Offshore redundancy control technology
 - O Driving chain load optimization
 - Comprehensive fault diagnosis

Integrated control solution

Advanced SCADA system

Programmable independent safety controller





风电变流器

Wind Power Converter

- 高效率高可靠性
- O High efficiency and reliability
- 优化的柜体结构
- Optimized cabinet structure
- 灵活的对外接口
- Advanced control technology
- 领先的控制技术
- 严格的标准化设计 Stringent standardized design
- Flexible external interface

风电变桨系统

风电电控系统解决方案

WIND POWER ELECTRONIC

CONTROL SYSTEM

SOLUTION

风电变流器 Wind Power Con

□ 灵活的对外接口 Flexible external interface 领先的控制技术 Advanced control technology 严格的标准化设计 Stringent standardized design

风电主控系统

市场维护

解决方案

更好的实时性, 可靠性, 便于维护

件的实时状态以供故障与分析 快捷,贴心的一站式售后服务

通过国网电科院LVRT张北认证

通过国网电科院模型一致性认证

风电设备及系统 解决方案



WIND POWER EQUIPMENT AND SYSTEM SOLUTION

集团在新能源领域的产品不断取得突破性的进展,拥有主控系统、变桨系统、 变流系统的风电电控系列产品。其中主控系统机型涵盖 2.0-6.25MW, 变桨 系统机型涵盖 2.0-10MW, 变流系统机型涵盖 2.0-4.0MW, 在全国各风场 稳定运行。

The Group has been making breakthroughs continuously in the R&D of new energy products, and developed wind power electronic control product series for the master control system, variable pitch system and conversion system. In particular, the types of master control system cover 2.0-6.25MW, the types of variable pitch system cover running smoothly in a wide range of wind farms across the country.



智能电力设备及 系统解决方案



SMART POWER EQUIPMENT AND SYSTEM SOLUTIONS



) 设备健康状态预测) 根据早期预警进行排查检修) 指导人员关注劣化设备



智能变压器 Smart Transformer

智能开关柜 • 状态全感知 • 故障自诊断 Smart Switchgear 自动运维

Full state-awareness

智能开关元件 Smart Switch Component

 Fault self-diagnosis O Automated operation and maintenance 智能电缆系统 Smart Cable System



智能巡检设备

Smart Tour-inspection Equipment

- 巡检机器人、无人机
- 故障处理服务器系统
- Tour-inspection robot, UAV
- Fault handling server system



智能终端

Smart Terminal

- 集采集、分析、传输为一体的 物联网智能终端产品
- IoT smart terminal products integrating acquisition, analysis and transmission



SEAGREE—EPCS(储能变流器)

SEAGREE-EPCS (Energy Storage Converter)

- 产品系列化齐全(模块化50~250kW、集中式500/630kW、 集中式 1500V 1.25-1.725MW)、维护方便;
- 支持快速并离网切换功能;
- PCS 集成部分 EMS 系统功能, 节约用户侧储能投资成本;
- 完善的系统保护功能,安全可靠。
- O Complete series of products (modular design 50-250kW, centralized design 500/630kW, centralized design 1500V 1.25-1.725MW), easy to maintain.
- Support quick switching between grid-connection and off-grid.
- O PCS integrates part of the functions of EMS to save user-side energy storage investment cost.
- Safe and reliable with enhanced system protection feature.



Integrated Container

- 一体化设计,即插即用,运输便捷;
- 防护等级高,适合多种严酷环境;
- 配备自动消防系统,安全可靠;
- 提高系统使用率。
- Integrated design, plug and play, easy to transport.
- O High level of protection, suitable for various harsh environments.
- o Safe and reliable with an automatic fire suppression system.
- Improved system utilization.



移动式储能车

Mobile Energy Storage Vehicle

- 电压电流追踪,实现不间断电力供应切换;
- 小型化设计、灵活布置;
- 具备并离网切换功能支持多机并联和热插拔,方便扩容。
- Voltage and current tracking, realizing uninterrupted switching of power supply.
- Compact design, flexible layout.
- O Capability to switch between grid-connection and off-grid, supporting multi-generator parallel connection and hot-plug, easy to expand capacity.



逆变升压一体机

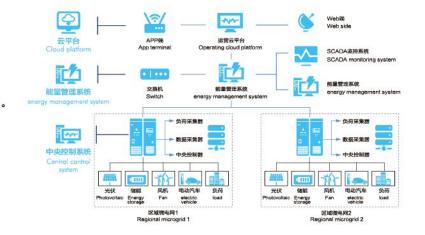
Integrated Inverter Booster

- 高度集成化设计、包含逆变与升压单元:
- 并网和离网两种状态下全功率输出:
- 全方位监控采集。
- Highly integrated design, including inverter and booster units.
- Full-power output under both grid-connected and off-grid states.
- All-round monitoring and acquisition.

综合监控管理系统

Comprehensive Monitoring Management System

- 本地控制器, 本地信息的采集与传输;
- 能量管理层,实现优化调度,保证安全、经济、可靠运行;
- 云平台,实现移动端和 WEB 端的实时状态显示、数据查询、和运行维护。
- Local controllers, with local information acquisition and transmission;
- The energy management level realizes optimized dispatching to ensure safe, economical and reliable operation.
- The cloud platform realizes real-time status display, data inquiry and operation maintenance at the mobile and WEB terminals.





调峰调频

Peak Load and Frequency Re

> 快速响应调频调压指令 提高电网稳定性

Quickly respond to frequency and voltage regulation instructions

集团在储能领域拥有系列化产品及解决方案:PCS,集装箱,EMS,逆变升 压一体机,移动式储能,综合监控系统。满足工商业用户新能源并网、辅助

储能产品及系统解决方案

ENERGY STORAGE PRODUCT

AND SYSTEM SOLUTIONS

The Group has a series of products and solutions in the field of energy storage: PCS, container, EMS, integrated inverter booster, mobile energy storage, and integrated monitoring system, which can meet the needs of industrial and commercial users for new energy grid-connection, auxiliary frequency regulation, power protection, and the like.

调频, 电力保障等多种需求。



微电网应用

-)供偏远地区、无电地区供电
- 增加新能源就地消纳

新能源并网

储能系统解决方案

ENERGY STORAGE

SYSTEM SOLUTIONS

New Energy Grid-connection

減少瞬时功率变化,減少电网冲击跟踪计划调度,提高并网可控性提高发电预测精度,提升并网友好性

减少弃光、弃风、提高经济性

移动式储能 Mobile Energy Storage

- 应用功能全面,可应付多种场景

电能质量解决方案及轨道 交通能量回馈系统解决方案

POWER QUALITY SOLUTIONS AND RAIL TRANSIT ENERGY FEEDBACK SYSTEM SOLUTIONS

集团在电能质量领域的产品研发不断取得突破性的进展,提供从电流治理到电压治理、从低压到中压、从输电端到配电端再到用户侧的全方面治理设备以及系统化解决方案。自主研发了 APF、SVG、AVC、电能质量综合治理等产品,多次解决各个行业的电能质量问题。

我们还提供轨道交通能量回馈系统,自主研发了包括逆变回馈型、超级电容储能型、混合型等多种类型的能量回馈装置以及解决方案,为我国轨道交通行业节能减排做出了巨大贡献。

The Group has made breakthroughs continuously in product R&D in the field of power quality, providing comprehensive governance equipment and systematic solutions ranging from current governance to voltage governance, from low voltage to medium voltage, from transmission end to distribution end and then to user side. It has independently developed APF, SVG, AVC, comprehensive power quality governance and other products, and repeatedly solved the power quality problems faced by a wide range of industries.

In addition, the Group also provides rail transit energy feedback systems, and has independently developed various types of energy feedback devices and solutions, including inverter feedback type, super capacitor energy storage type, hybrid type, etc., playing a big role in the energy conservation and emission reduction of China's rail transit industry.



轨道交通能量回馈系统解决方案 RAIL TRANSIT ENERGY FEEDBACK SYSTEM SOLUTIONS

超级电容储能型

混合型 Hybrid Type

逆变回馈型

〉整机响应时间快 〉输出电流波形质量高 〉扩容简单方便

Quick response time High-quality output current waveform Simple and easy to expand capacity → 未来的发展方向→ 储能型与逆变回馈型的综合体→ 结合两者优势

Future development trend
A mixture of energy storage type and inverter feedback type
Combination of both advantages

→ 具备可控整流功能 → 具备无功补偿功能 → 逆变回馈型单元技术成熟 → 系统数率高,装置可靠性 → 拉射线率高,接近2000年70 Controlled rectification function

Reactive compensation function

Mature technology of inverter feedback type

High system efficiency and device reliability

High control precision, strong anti-interference capability

© Aury

自动电压控制器

Automatic Voltage Controller

- 0~100% 电压跌落完美补偿
- 响应速度快,运行效率高
- 过电压调节能力强
- 模块化设计,结构紧凑,占地面积小
- 强大的云平台,免维护、免值守
- 冗余设计, 高可靠性

- Perfect compensation for voltage sags of 0-100%
- Quick response, high operating efficiency
- Strong overvoltage regulating ability
- Modular design, compact structure, little floor space required
- Powerful cloud platform, maintenance-free, unattended
- Redundancy design, high reliability

电能质量综合治理

Comprehensive Power Quality Governance

- 一机多能,解决多种电能质量问题
- 模块化设计,灵活配置
- 全面保护功能,提升稳定性
- 基于工业安卓系统,良好的人机交互体验
- 卓越的补偿功能
- 系统稳定,快速响应
- 寿命长, 免维护, 免值守



- Multiple functions integrated in one machine, able to solve multiple power quality issues
- Modular design, flexible configuration
- O Comprehensive protective function, improved stability
- Based on the industrial Android system, creating good man-machine interaction experience
- Outstanding compensation function
- System stability, quick response
- O Long service life, maintenance-free, unattended

轨道交通能量回馈装置

Rail Transit Energy Feedback Device

超级电容储能型

- 整机响应时间快
- 输出电流波形质量高
- 扩容简单方便

逆变回馈型

- 具备可控整流功能
- 具备无功补偿功能
- 逆变回馈型单元技术成熟
- 系统效率高,装置可靠性高
- 拉州建安京 计工业终于3
- 控制精度高,抗干扰能力强
- 调试、维修、维护方便

Super Capacitor Energy Storage Type

- Quick response time
- High-quality output current waveform
- Simple and easy to expand capacity

Inverter Feedback Type

- Controlled rectification function
- Reactive compensation function
- Reactive compensation function
- Mature technology of inverter feedback type units
- High system efficiency and device reliability
- High control precision, strong anti-interference capability
- Easy to debug, repair and maintain



产品 **PRODUCTS**

〉输配电设备 POWER TRANSMISSION AND DISTRIBUTION EQUIPMENT

电力变压器 **Power Transformer**

以"提高产品可靠性,提高设备智能化、 提高有效材料利用率、降低损耗"为宗旨

500kV 自耦单相绕组无励磁 调压电力变压器 500kV self-coupling single-phase winding voltage regulating power transformer without excitation

Aiming to "improve product reliability, equipment intelligence and effective material utilization, and reduce loss"

集团通过引进技术与自主研发相结合,已经具备制造特高压交流 1000kV 变压器及 1100kV 电抗器产品的技术实力,可全面覆盖 1000kV 及以下的电力变压器。并积极 响应国家战略,大力推广节能、降耗、适用的配网新产品、新设备,以"提高产 品可靠性,提高设备智能化、提高有效材料利用率、降低损耗"为宗旨,不断创新产 品类别,努力提升产品能级,为我国电力发展贡献力量。

SS11-240000/220 变压器具有结构合理、绝缘性能优越、抗短路能力强、损耗低、 温升低、局放小、噪音小等特点,已通过了国家变压器质量监督检验中心的所有试验, 是我国首台过短路试验的 220kV 电压等级 240000kVA 容量的变压器。主要性能指标 达到同类产品国际先进水平。SS11-240000/220 变压器具有结构合理、绝缘性能优 越、抗短路能力强、损耗低、温升低、局放小、噪音小等特点,已通过了国家变压器 质量监督检验中心的所有试验,是我国首台通过短路试验的 220kV 电压等级 240000kVA 容量的变压器。主要性能指标达到同类产品国际先进水平。

10kV 配电变压器通过电能(北京)认证中心节能产品认证,达到一级能效标准。







智能箱式变电站 **Smart Box-type Substation**

技术先进、智能化程度高、扩展性好、升级灵活。

箱式变电站广泛应用于至 40.5kV 电压等级变电站、开闭所。新型智能箱式变电站具 有技术先进、智能化程度高、扩展性好、升级灵活的特点,拓展了箱变的智能化概念 和功能,具有数据传输、故障诊断和自愈的功能,技术水平高于国内同类产品,在电 力市场应用中凸显优势。

Technologically advanced, highly intelligent, highly scalable, flexibly upgradable

The box-type substation is widely used in substations and switching stations at a voltage level of up to 40.5kV. The new smart box-type substation is technologically advanced, highly intelligent, highly scalable, and flexibly upgradable, expands the intelligent concept and functionality of box-type substations, and boasts such functions as data transmission, fault diagnosis and self-healing. Technically, it is superior to similar products in China, a distinct advantage in the electricity markets.



直流牵引箱式变电站 DC Traction Box-type Substation

Integrating imported technology and in-house R&D, the Group has the technical strength to manufacture UHV AC 1000kV transformers and 1100kV reactors, as well as can fully cover power transformers of 1000kV and below. in response to national strategies, vigorously promoted energy-saving, consumption-reducing and applicable new products and new equipment for the distribution network; and, with a view to "improving product reliability, equipment intelligence and effective material utilization, and reducing loss", constantly innovated product categories, striving to improve the energy level of products and contribute to the development of China's electric power.

The SS11-240000/220 transformer features, among others, a reasonable structure, superior insulation performance, strong anti-short circuit ability, low loss, low temperature rise, small partial discharge, and low noise. It has passed all of the tests required by the National Transformer Quality Supervision and Inspection Center, and is the first 220kV transformer with a 240000kva capacity that has passed the short-circuit test in China, with its main performance indexes reaching the international advanced level of similar products.

The 10kV distribution transformer has passed the energy-conservation product certification of the Electric Energy (Beijing) Certification Center, reaching the first level energy efficiency standard.

高低压电缆、风能电缆、PP 绝缘电缆、 直流电缆、电缆附件

HV/LV Cables, Wind Power Cables, PP Insulated Cables, DC Cables, Cable Accessories

所有网络传输用通信电缆、船用网线、现场总线、轨道交通用线、 柔性电缆、光缆、电地暖系统。

All communication cables for network transmission, marine network cables, fieldbus, cables for rail transit, flexible cables, optical cables, and electric floor heating systems.

集团以先进的制造技术、精良的工艺装备、严格的管理模式制造至 500kV 交联电缆、 海底电缆、柔性直流输电电缆及电缆附件; 所有网络传输用通信电缆、船用网线、现 场总线、轨道交通用线、柔性电缆、光缆、电地暖系统。

柔性直流输电电缆具备由国家电线电缆监督检测中心出具的型式试验报告,产品已成功应用于亚洲首个柔性直流输电示范工程——上海南汇柔性直流输电项目中。集团成功研制的交联聚乙烯绝缘光纤复合电缆(OPLC),取得了国家电网入网证书。全系列网络传输用通信电缆具有UL、3P、ETL、TUV等多家权威认证机构的全方位证书,船用线缆系列则是全中国拥有船级社认证证书最齐全的厂家。

The Group manufactures 500kV cross-linked cables, submarine cables, flexible DC transmission cables and cable accessories on the strength of advanced technology, excellent equipment and a strict management model, covering all communication cables for network transmission, marine network cables, fieldbus, cables for rail transit, flexible cables, optical cables and electric floor heating systems.

With the type test report issued by the National Wire and Cable Supervision and Testing Center, the flexible DC transmission cable has been successfully applied in Shanghai Nanhui Flexible DC Transmission Project, Asia's first flexible DC transmission demonstration project. The Group has successfully developed the cross-linked polyethylene insulated optical fiber composite cable (OPLC) and obtained the national grid access certificate. The full series of communication cables for network transmission has various certificates issued by UL, 3P, ETL, TUV and other authoritative certification institutions. In terms of the marine cable series, the Group is the manufacturer with the most complete certificates of classification society in China.



35kV 交联聚乙烯电力电缆 35kV XIPE Cable



10kV 架空线 10kV Overhead Line



10kV 柔性电力电缆 10kV Flexible Cable



35kV 海底电缆 35kV Submarine Cable







金属封闭开关设备 Metal-enclosed Switchgears

集团生产多系列金属封闭开关设备及预装式变电站(高/低压箱变、户外开关站),广泛应用于电力系统,以及其它工业领域。KYN28 A 智能型铠装移开式交流金属封闭开关设备具有断路器状态自检测功能、故障报警及自闭锁等智能化功能;可对设备运行状态和参数进行远程测控和智能化管理;实现对主母排、动静触头和柜体内运行温度的在线监测。SE-house 智能型预装式变电站,体现了"紧凑型+预装式+数字化"变电站建设的技术路线和方案,产品高度集成化和模块化,广泛应用于能源密集型行业领域,可耐受极端温度以及灰尘、污垢、湿气、雾气等恶劣环境影响,可以比建造传统的变电站节约 20%~30%的预期成本。

The Group produces multiple collections of metal-enclosed switchgear and prefabricated substations (HV/IV box transformer and outdoor switch station), which are widely used in electric power systems and other industrial fields. The KYN28 A smart armored movable AC metal-enclosed switchgear boasts such intelligent functions as circuit breaker status self-detection function, fault alarm and automatic interlock. It can remotely measure, control and intelligently manage the equipment's operating status and parameters, and realize on-line monitoring of the main bus bar, dynamic and static contacts and the operating temperature in the cabinet. The SE-house smart prefabricated substation enshrines the technical route and scheme of "compact + prefabricated + digitalized" substation construction. The product is highly integrated and modularized, widely used in energy-intensive sectors. It can withstand extreme temperatures and harsh environmental impacts such as dust, dirt, moisture and fog, and save 20% - 30% of the expected cost compared to the construction of a traditional substation.

开关元器件 Switch Components



作为开关元器件领域的先导者,集团积淀了百年以上开关元器件制造经验,新型智能 产品具有完善的在线状态监测、诊断功能、可靠的智能保护管理系统,快速精确的智 能决策系统,坚强的自诊,自愈,自恢复系统、通讯数据记录功能,可用于智能控制系统。 实现遥控、遥测、各类保护功能和系统能量、运行、寿命管理。

As a leader in the switch components market, the Group has over a hundred years of history in switch component manufacturing. The new smart products have perfect on-line condition monitoring and diagnosis functions, reliable intelligent protection management system, fast and precise intelligent decision-making system, strong self-diagnosis, self-healing, self-recovery system and communication data recording function, which can be used in intelligent control systems. And the products have realized remote control, remote metering, various protective functions and system energy, operation and life management.



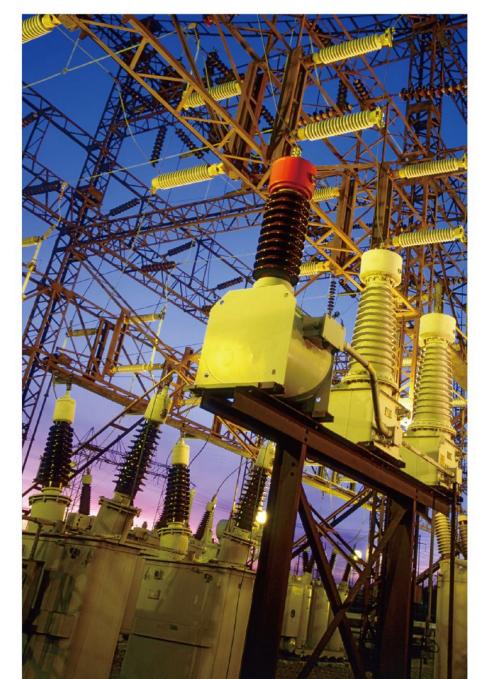
智能电网配电管理系统 Smart Grid Power Distribution Management System

DMP-5500 是建立在 IEC61850 标准规范上开发的新一代智能变电站系统,能够实现变电站内智能设备间信息共享和互操作,实现了变电站运行操作自动化管理,以全站信息数字化、通讯平台网络化、信息共享标准化为基本要求,自动完成信息采集、数据测量、顺序控制、快速保护、精确计量、自动检测等基本功能,并可根据电网运行需求,支持实时自动控制、智能调节、分析决策、协同互动等高级功能。

A new generation of smart substation system based on the IEC61850 standard, the DMP-5500 can realize information sharing and interoperation between the smart equipment rooms within a substation, enable automated management of the substation's running and operating, automatically perform such basic functions as information acquisition, data measurement, sequential control, fast protection, accurate measurement and automatic detection, etc. with station-wide information digitalization, communication platform networking and standardized information sharing as the basic requirements, and support such advanced functions as real-time automatic control, intelligent regulation, analysis and decision-making and collaborative interaction, etc. according to the grid's operating needs.







DMP-2217 罩式馈线终端 DMP-2217 Hood-type Feeder Terminal

适用于配电网中的柱上负荷开关(或断路器)的配网自动化终端产品,是各类柱上开关自动化的配套机型。

Automatic terminal products applicable to post-mounted load switches (or circuit breakers) in power distribution grids, they are an automated supporting product for various post-mounted switches.



DMP-2216 配网馈线终端 DMP-2216 Distribution Network Feeder Terminal

柱上开关的配网自动化终端产品,适应于弹簧操作机构、电磁机构、永磁机构等各种类型柱上开关,实现配电自动化管理。

Automatic terminal products for post-mounted switches in power distribution grids, they are applicable to various types of post-mounted switches such as spring operating mechanisms, electromagnetic mechanisms and permanent magnetic mechanisms, and realize automated management of power distribution.



DMP-2218 配网站所终端 DMP-2218 Distribution Network Station Terminal

主要安装在配电网开关站、配电室、环网单元、箱式变电站等处,实现配电监控功能。

They are mainly installed at such locations as power distribution grid's switching station, power distribution room, ring network unit, box-type substation, etc., realizing the power distribution monitoring function.





输配电技术中心于 2006 年成立,先后承担多个国家 863 项目和科技支撑项目,并于 2008 年被评为国家级企业技术中心, 技术中心现有 5MW 全功率电机试验平台,电压跌落模拟试验平台及电磁兼容试验平台,为企业发展和产品设计提供了强有 力的技术支撑;装备了如兆瓦级风力发电全功率试验平台、低电压穿越试验平台、RTDS实时动态数字仿真系统等国内一流 的试验检测设施;通过与清华大学、上海交大、中科院等知名学府及科研院所的产学研合作,并积极开展对引进技术的消化 吸收,形成了自主核心技术竞争优势。

Established in 2006, the Power Transmission and Distribution Technology Center has undertaken a number of national 863 projects and scientific and technological support projects, and was honored as the National Enterprise Technology Center in 2008. Today, the Center has a 5MW full-power motor test platform, a voltage drop simulation and test platform, and an electromagnetic compatibility test platform, providing strong technical support for the enterprise's development and product design. It is equipped with a megawatt wind power full-power test platform, a LVRT test platform, a RTDS real-time dynamic digital simulation system and other domestic first-class test and detection facilities. Through industry-university-research cooperation with Tsinghua University, Shanghai Jiaotong University, Chinese Academy of Sciences and other well-known universities and research institutes, and actively engaging in the assimilation and absorption of imported technology, it has built competitive advantages with independent core technologies.





已授权发明专利 Licensed patents for invention

软件著作权 Software copyrights

授权实用新型专利 Licensed patents for utility models 50人, 本科及以下15, 其中高工23人。

The Center has 70 R&D professionals, among whom 5 have a doctor's degree, 50 have a master's degree, 15 have a bachelor's degree or below, and 23 are senior engineers.

研发团队力量 R&D Team













本科及其他占比



4.5% PhDs

科技力量
TECHNOLOGICAL STRENGTH









350kV 工频试验变压器 350kV Power Frequency Testing Transformer

220kV/60MVA (1500MVA) 冲击试验变压器组 220kV/60MVA (1500MVA) Impact Testing Transformer Bank

220kV 户外开关站 220kV Outdoor Switching Station

电磁兼容 3m 法半电波暗室 EMC 3m Semi Anechoic Chamber

>技术检测 TECHNICAL TESTING

上海电气输配电试验中心有限公司是国内最早的大容量检测实验室之一,是具有独立 法人资格的第三方检测机构,获中国合格评定认可委员会(CNAS)认可和中国国家 认证认可监督管理委员会的检验检测机构(CMA)认定资质。

现试验中心获CMA和CNAS授权认可的检测范围产品涉及39大类,检测能力达国内先进水平检测能力达国内先进水平,客户群体已覆盖国内大部分地区,并与施耐德、ABB、西门子等国内外知名企业建立了良好的业务关系。具有按GB、IEC、DL、JB等标准对额定电压 < 252kV、额定短路开断电流 < 40kA(50kA)的开关设备和控制设备进行全面型式试验的能力,是中国大容量试验联盟(CHPTL)成员。

试验中心是与国网签约的合作实验室、中石化指定的开关类产品质量检测实验室,是中国大容量试验联盟(CHPTL)成员实验室,是国家能源行业短路试验技术标准化技术委员会委员、中国电工技术学会大容量试验技术专业委员会委员、中国电器协会会员、全国输配电技术协作网(EPTC)会员、智能输配电产业联盟副理事长单位、上海市电力行业协会会员、上海市高新技术企业、上海市政府确定的五家生产服务型试点企业之一,品牌和声誉已进入国内同行前列。



One of the earliest high-capacity testing laboratories in China, Shanghai Electric Power Transmission & Distribution Testing Centre Co., Ltd. ("SETC") is a third-party testing laboratory as an independent legal entity accredited by China National Accreditation Service for Conformity Assessment ("CNAS") and China Inspection Body and Laboratory Mandatory Approval (CMA).

The scope of testing of SETC has been authorized and accredited by CMA and CNAS, covering 39 categories, with leading testing capability in China and a customer base covering most parts of China. It has established good business relationships with international and domestic famous enterprises like Schneider, ABB and Siemens. With the capability to perform comprehensive type tests on switchgears and control gears with rated voltage $\leq 252 \text{kV}$ and rated short circuit breaking current $\leq 40 \text{kA}$ (50kA) in accordance with the GB, IEC, DL, JB standards, etc., it is a member of CHPTL.

The Testing Center is a contractual laboratory of the State Grid, the designated quality testing laboratory of SINOPEC for switch products, member of China High Power Testing Laboratory Liaison (CHPTL), member of Energy Industry Short-Circuit Experimentation Technical Standard Technical Commission under the National Energy Administration, member of the High Power Testing Technical Professional Commission under China Electrotechnical Society, member of China Electrical Equipment Industry Association, member of Electric Power Technology Collaboration (EPTC), Vice Chairman of Intelligent Power Transmission & Distribution Industry Alliance, member of Shanghai Electric Power Industry Association, Shanghai Municipal Hi-Tech Enterprise, and one of the five pilot production service enterprises designated by Shanghai Municipal Government, with its brand and reputation ranking in the top among its peers in China

工程业绩 PROJECT TRACK RECORD

工程业绩 PROJECT TRACK RECORD

作为集团发展战略之一,输配电工程业务肩负大力拓展海外市场,以工程成套业务带动制 造业共同发展的历史使命。多年来,承接了海内外多项大型输配电工程总承包、设备总成 套的优质项目。集团从 1992 年开始正式进入国际工程总承包市场, 迄今为止, 输配电 EPC 工程和设备成套项目的国际业务遍及非洲、东南亚、中亚、中东、东欧、加勒比、北 美等地区,在全球二十多个国家拥有良好的运行业绩,得到了业主及合作伙伴的一致好评。 目前,集团正在执行乌兹别克斯坦、巴基斯坦、马来西亚、刚果(金)、尼日利亚、吉布提、 埃塞俄比亚、科威特、孟加拉、苏丹、古巴、马尔代夫等地的 EPC 输配电工程和新能源项目。

As one of the Group's development strategies, the power transmission and distribution engineering business is tasked with the historical mission to vigorously expand the overseas market and drive the common development of the manufacturing industry with the complete-set engineering business. Over the years, it has undertaken a number of large-scale power transmission and distribution projects and high-quality projects with complete-set equipment at home and abroad. The Group officially entered the international engineering general contracting market in 1992, and so far its international business of power transmission and distribution EPC projects and complete-set equipment projects has presence in, among others, Africa, Southeast Asia, Central Asia, the Middle East, Eastern Europe, the Caribbean, and North America, attaining good operational performance in over 20 countries around the world and winning critical acclaim from owners and partners. Currently, the Group is implementing EPC power transmission and distribution projects and new energy projects in Uzbekistan, Pakistan, Malaysia, Congo(D), Nigeria, Djibouti, Ethiopia, Kuwait, Bangladesh, Sudan, Cuba, and Maldives, etc.



古巴光伏 Solar Project in Cuba

公司获得了由上海市住建委颁发的电力工程施工总承包二级 资质, 机电、输变电工程施工承包专业三级资质。通过第三 和 ISO45001:2018 质量、环境和职业健康安全管理体系的

> 证书。公司采用国际先进的管理方式进行工程项目的实施管 理, 在市场拓展、工程管理、风险控制等方面积累了丰富的

经验。

The Company has obtained the power engineering general contracting qualification of Grade 2 and the professional contracting qualification for mechanical and electrical installation and power transmission and distribu-方专业机构评审,获得了 ISO9001:2015、ISO14001:2015 tion of Grade 3 granted by Shanghai Municipal Commission of Housing and Urban-Rural Development, and, upon assessment by third party professional agencies, the ISO9001:2015, ISO14001:2015 and ISO45001:2018 certification for quality, environment and occupational health & safety management systems. Implementing internationally-advanced management models for the implementation and management of engineering projects, the Company has accumulated extensive experience in market development, project management, and risk control, etc.

吉布提古拜特变电站项目 Djibouti Goubet Substation Project

>重点工程业绩 MAJOR PROJECTS

- 1. 苏丹 9 座 220kV 变电站工程总承包项目
- 2. 吉布提古拜特变电站项目
- 3. 刚果(金)金苏卡变电站及配网项目
- 4. 马来西亚砂捞越州 500kV 输电线路 Package B 工程
- 5. 科威特 4913 号 132kV GIS 变电站项目
- 6. 巴基斯坦 TP1000 卡拉奇城市电网改造项目
- 7. 贵州关岭县卓阳岗乌 200MW 农业光伏电站项目
- 8. 南昌海立大规格压缩机智能制造基地供配电项目
- 9. 上海电气汕头智慧能源基地供配电项目
- 10. 普枫(新加坡)集团公司分布式光伏发电 EPC 项目
- 11. 上海浦东博宇 110 干伏输变电工程
- 12. 浦东"连民村智慧能源第一村"示范项目
- 13. 尼日利亚电网修复加固 NTP 项目(TR1)
- 14. 奥特斯马来西亚 KULIM 工厂 132kV 变电站项目

- 15. 孟加拉迈门辛地区工程总包
- 16. 乌兹别克斯坦 220kVZafarabad 变电站项目
- 17. 加拿大特拉弗斯 465MWac 光伏电站项目
- 18. 广东粤电大埔电厂储能调频项目
- 19. 石钢京城 220kV 变电站 EPC 工程
- 20. 甘肃金昌金川区 100MW 风电项目
- 21. 上海中学新建地下车库及教学综合楼改扩建工程 35KV 变配电工程
- 22. 奥特斯重庆三期厂房建设项目/奥特斯卫星工厂项目
- 23. 马来西亚微电网项目









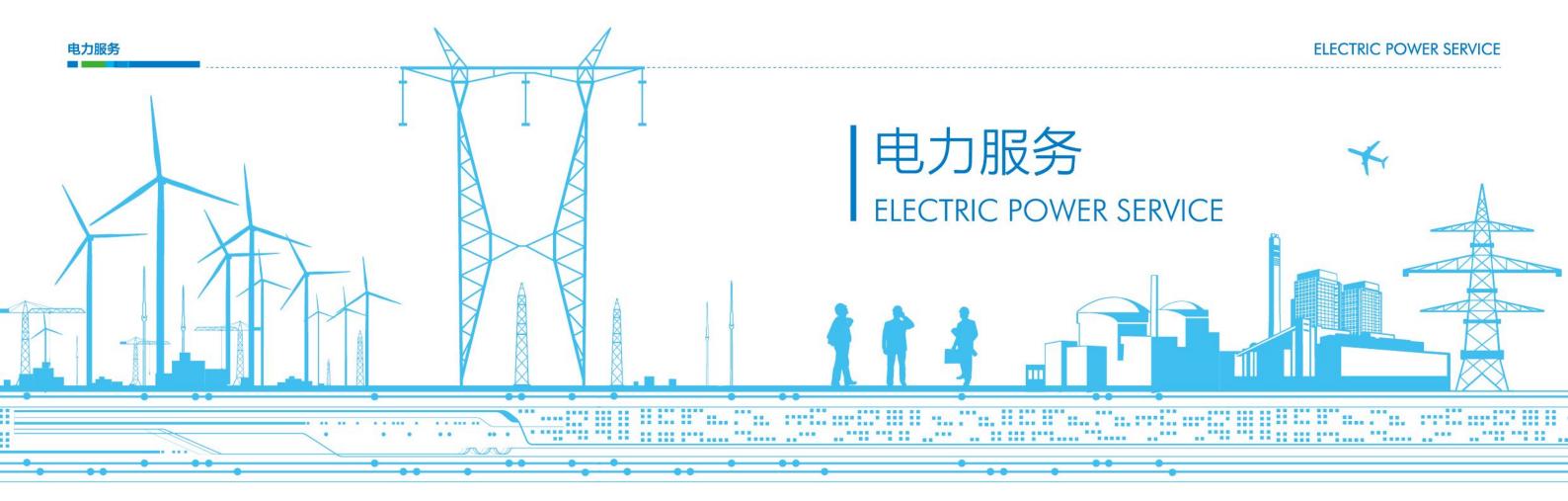




- 1. Sudan EPC Project of 9 Substations of 220kV
- 2. Djibouti Goubet Substation
- 3. KINSUKA 220KV SUBSTATION AND ASSOCIATED DISTRIBUTION NETWORK PROJECT
- 4. Malaysia Sarawak Energy 500kV Backbone Transmission Line Project Package B
- 5. Kuwait No.4913, 132kv GIS Substation Project
- 6. Pakistan TP1000 Karachi Urban Power Grid Reconstruction Project
- 7. Zhuoyang Gangwu 200MW Agricultural Photovoltaic Power Station Project in Guanling County, Guizhou
- 8. Power Supply and Distribution Project of Nanchang Haili Large Scale Compressor Intelligent Manufacturing Base
- Shanghai Electric Shantou Smart Energy Base Power Supply and Distribution Project
- Distributed Photovoltaic Power Generation EPC Project of Pufeng (Singapore) Group Co., Ltd.
- Shanghai Pudong Boyu 110kV Transmission and Transformation Project
- 12. Demonstration Project of "Lianmin Village First Smart Energy Village" in Pudong
- Rehabilitation & Reinforcement of 330/132kV and 132/33kV Transmission Substations (Package 1)
- 14. AT&S Malaysia Construction Project Phase I F11C-132kV ESS
- EPC project of Capacitor Bank with associated swithgear in Mymensingh region
- EPC of "220kV Digital Substation "Zafarabad" and two line-bay in the Sirdarya Thermal Power Plant"

- 17. Canada Travers 465MWac Solar Park Project
- 18. 18MW/9MWh Battery Energy Storage Project for AGC frequency regulation in GUANGDONG YUDEAN DABU POWER GENERA-TION CO.LTD
- 19. New 220kV ShiGang JingCheng Substation EPC Project
- 20. Gansu, Jinchang 100MW Wind Power Project
- 21. Shanghai Middle School 35kV power distribution project for newly-built underground darage and teaching complex building reconstruction and expansion
- 22. AT&S Chongqing Phase III Building Construction Project/AT&S Satellite Plant Project26.
- 23. Malaysian microgrid project





> 电力设备社会化检修服务

SOCIALIZED MAINTENANCE SERVICE FOR POWER EQUIPMENT



作为电力公司战略合作伙伴,集团以现代化、专业化、服务 化为宗旨,充分利用装备制造资源,积极拓展电气设备制造 及供应服务内涵,为电力公司提供优质的电网设备检修服务。

As a strategic partner of electric power companies, with modernization, professionalization and servitization as the aim, the Group makes full use of its equipment manufacturing resources and proactively explores the deeper meaning of electrical equipment manufacturing and supply so as to provide the electric power companies with quality maintenance services for grid equipment.

〉应急抢修服务体系

EMERGENCY REPAIR SERVICE SYSTEM



从"迎峰度夏"到"抗冰防寒",为电力安全运行提供应急抢修保障,不断完善应急服务体系,提高应急抢修能力和服务水平。

From "gearing up for the power consumption peak in summer" to "protecting against the cold and ice in winter", the emergency service system provides emergency repair services to guarantee the safe operation of the power system by continuously improving the service system, emergency repair capability, and service level.

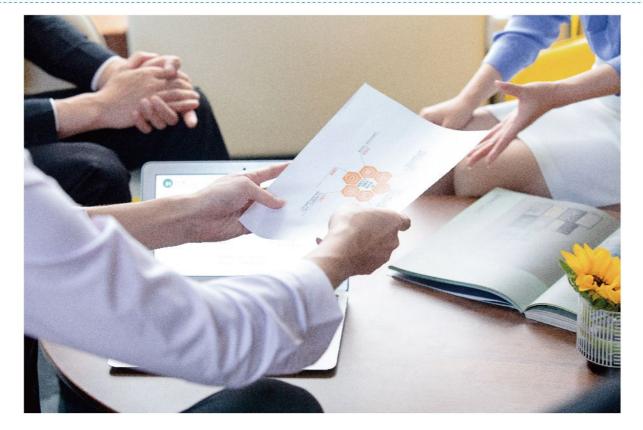
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电力服务 **ELECTRIC POWER SERVICE**

>研修服务 TRAINING SERVICE

集团竭诚提供电网建设规划咨询、项目解决方案咨询、技术及管理培训等多 层次、系统化、全面性服务培训,全力为海内外电力行业用户打造设备采购 指导、专业技术培训、维护管理培训、售后服务一站式服务模式。

The Group is dedicated to providing multi-tier, systematic and comprehensive service training, including consulting on grid construction planning and project solutions, and technical and management training, and creating for users in the electric power industry at home and abroad a one-stop service model integrating equipment purchasing guide, expertise training, maintenance and management training, and after-sales service.



〉售电服务 POWER TRADING SERVICE

上海电气输配电集团有限公司是上海电气与国网上海市电力公 司股权比例 50:50 的合资公司, 2022 年 1 月 25 日与上海电力 交易中心有限公司签署《售电公司入市协议》,自此开展售电业 务,年售电量不受限制,无配电网经营权。

立足上海,辐射长三角,专业提供电力交易、用电诊断、能源 管理、电力运维等服务,通过优化用户/园区用电方式,提高用 能效率,与客户共同分享电费利润下降空间。

SPTD is a 50:50 joint venture between Shanghai Electric and State Grid Shanghai Municipal Electric Power Company. On January 25, 2022, the group signed «Market Entry Agreement» with Shanghai Electric Power Trading Center and started power trading business, with no quantitative restriction and no distribution network management rights.

Based in Shanghai, radiating the Yangtze River Delta, with no restrictions on power trading, the group professionally provides services such as power trading, power consumption diagnosis, energy management, substation operation and maintenance. By optimizing energy usage, improving energy efficiency, the group shares electricity profit margin with clients.



〉招投标代理服务 BIDDING AGENCY SERVICE

恪守行业准则、严控服务品质,不断致力于以专业专注的优质 服务、规范严谨的职业操守,向社会各界展示着业界领先的招 投标代理综合实力, 为电力系统等广大客户提供最为优质的工 程咨询服务。

By strictly observing the industry standards and controlling the service quality, the Group is constantly committed to demonstrating to all walks of life its industry-leading comprehensive strength as a bidding agent and providing the best engineering consulting services for customers such as the electric power systems with professional, targeted high-quality services as well as standardized, rigorous professional ethics.



GROUP AFFILIATES



分 类 Classification	企业名称 Enterprise Name	产品范围 Product Range
变压器类 Transformers	吴江变压器有限公司 Wujiang Transformer Co.,ltd 电话 TEL: 0512-63422090	一家专业从事变压器、电抗器、成套电器及开关设备的集研发、制造、工程总包和服务一体化的创新型企业,主要生产涉及10kV~1000kV及以下变压器、电抗器及成套设备技术先进、质量稳定,可靠性高。产品广泛用于火电、水电、光伏发电、特高压、轨道交通、航空航天、石油化工等领域,属于全国变压器行业综合实力前三强企业,国内变压器品种最多的生产商之一。 An innovative enterprise specializing in the integration of R&D, manufacturing, engineering general contracting and service integration of transformers, reactors, complete sets of electrical appliances and switchgear. It has the ability to produce more than 300 varieties of power transformers from 10kV to 1,000kV and 50 to 1,000,000kVA。The company's 1000kV and below transformers, reactors and complete sets of equipment have advanced technology, stable quality and high reliability. The products are widely used in thermal power, hydropower, photovoltaic power generation, UHV, rail transit, aerospace, petrochemical and other fields. They are among the top three enterprises in the comprehensive strength of the national transformer industry, and one of the manufacturers with the largest variety of transformers in China.
	上海电气集团(张家港)变压器有限公司 SEC Zhangjiagang Transformers Co., Itd 电话 TEL: 0512-58165258 58165222	500kV级及以下电力变压器、330kV级及以下整流变压器、220kV级及以下电炉变压器、10kV配电变压器、35kV级及以下干式变压器、非晶合金变压器、其他特种变压器及电抗器等各类变压器类产品;35kV级及以下预装式变电站、充电桩式变电站、高低压开关柜、计量柜、电缆分支箱、JP柜等各类成套产品;各类变电工程总承包、现场安装、智能运维、综合服务等。 Various types of transformers, such as power transformers of 500kV and below, rectifier transformers of 330kV and below, furnace transformers of 220kV and below, 10kV distribution transformers, dry-type transformers of 35kV and below, amorphous alloy transformers and other special transformers and reactors; various complete-set products, such as prefabricated substations of 35kV and below, charging pile substations, high and low voltage switch cabinets, metering cabinets, cable branch boxes and JP cabinets; general contracting of various power transformation projects, on-site installation, intelligent operation and maintenance, comprehensive services, etc.
开关柜类 Switch Cabi- nets	上海南华兰陵电气有限公司 Shanghai Nanhua-lanling Electrical Co., Ltd 电话 TEL: 021-54982088 上海大华电器设备有限公司 Shanghai Dahua Electric Equipment Co., Ltd 电话 TEL: 021-69132877 上海纳杰电气成套有限公司 Shanghai Najie Complete Sets of Electric Co., Ltd 电话 TEL: 021-54982864	生产和销售72.5kV及以下高低压成套开关设备、智能化高低压电气成套设备、新能源成套系统、轨道交通用(牵引、动力)环保型成套设备、海上平台用环保型组合电器、以及承接输配电工程施工总承包业务等。Production and sales of high- and low-voltage complete-set switchgears, intelligent high- and low-voltage complete-set equipment, complete-set new energy systems, general-purpose (traction, powertrain) environment-friendly complete-set equipment for rail transit, and environment-friendly composite apparatus for offshore platforms of 72.5kV and below, and general contracting of the construction of power transmission and distribution projects, etc.















分 类 Classification	企业名称 Enterprise Name	产品范围 Product Range	
电缆类 Cables	上海电气集团腾恩驰科技(苏州)有限公司 Shanghai Electric Group ZTC Technology (Suzhou) Co., Ltd. 电话 TEL:0512-55398258	1)六/六A类线缆:包含非屏蔽、屏蔽六类及六A类,主要应用于数据中心及楼宇建筑综合布线; 2)超五类线缆(非屏蔽超五类,屏蔽超五类),主要用于计算机与交换机的数据连接; 3)大对数线缆(非屏蔽和屏蔽三类、五类、超五类大对数),主要用于综合大楼垂直布线; 4)七、七A类缆,主要用于5G以太网技术; 5)八类缆,用于数据中心; 6)跳线、工业用网线、船用电缆等其他各类数据线缆; 7)地热电缆,用于室内、工业供暖等。 1)CAT6/6A Cable: including unshielded & shielded CAT6 and CAT6A cables, mainly used in the generic cabling of data centers and buildings; 2)CAT5E Cable: including unshielded & shielded CAT5E cables, mainly used for data connection between computer and switch; 3)Multi-pairs Cable: including unshielded & shielded CAT3, CAT5 and CAT5E multi-pairs cables, mainly used in the vertical cabling of buildings; 4)CAT 7/7A Cable: mainly used for 5G Ethernet; 5)CAT8 Cable: mainly used in data centers; 6)Jumpers, industrial network cables, marine cables and other data cables; 7)Floor heating cables, used for indoor or industrial heating, etc.	
	上海华普电缆有限公司 Shanghai Hua Pu Cable Co., Ltd 电话 TEL: 021-54981381	35kV及以下中低压电力电缆、架空电缆、轨道交通电缆、旁路作业用柔性电缆、布电线、低碳环保改性聚丙烯(PP)绝缘电缆、风力发电用耐扭曲软电缆以及特殊用途定制电缆,包括阻燃、耐火、阻水、低烟无卤等系列; 35kV及以下电缆附件。 Middle- and low-voltage cables, overhead cables, cables for rail transit, flexible cables for by-pass operations, cotton covered wires, low-carbon and environment-friendly modified polypropylene (PP) insulated cables, torsion-resistant flexible cables for wind power generation as well as special cables, including flame retardant cables, fire-resistant cables, water swellable cables, and LSZH cables, etc., of 35kV and below; cable accessories of 35kV and below.	
	上海飞航电线电缆有限公司 Shanghai Feihang Wires& Cables Co.,Ltd 电话 TEL: 021-57705569	110kV超高压及以下高、中、低压级电缆以及架空线、阻水、阻燃、耐火、低烟无卤等特种电缆; 220V电缆及电缆附件, 220V海底电缆。110kV extra high voltage cables and high, medium and low voltage cables below 110kV, as well as special cables like overhead cables, water swellable cables, flame retardant cables, flame resistant cables and LSZH cables; 220V cables and accessories, 220V submarine cables.	
	上海捷锦电力新材料有限公司 Shanghai Jiejin Advanced Electro-materials Co., Ltd 电话 TEL: 021-58599559	220kV及以下电缆附件 Cable accessories of 220kV and below	

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分 类 Classification	企业名称 Enterprise Name	产品范围 Product Range
新能源类 New Energy	上海电气电力电子有限公司 Shanghai Electric Power Electronics Co., Ltd 电话 TEL: 021-33713200	风电主控、变流、变桨系统; 电能质量产品(APF、SVG电容器、DVR、STATCOM、UPQC等) 交直流电源系统、新能源接入系统。 Wind power master control, converters, variable pitch systems; Power quality products (APF, SVG capacitor, DVR, STATCOM, UPQC, etc.), AC/DC power-supply systems, and new-energy access systems.
二次设备 及系统 Secondary Equipment and Systems	南京磐能电力科技股份有限公司 Nanjing Paneng Technology Development Co.,Ltd 电话 TEL: 025-66775988	110kV智能变电站系统、中压变电站综合自动化、电网能量管理系统、调度监控自动化、配网自动化。 110kV smart substation systems, integrated automation of medium-voltage substations, energy management systems for power grids, dispatching and monitoring automation, and distribution network automation.
元器件类 Parts and Components	上海电器股份有限公司人民电器厂 Shanghai Renmin Electrical Apparatus Works 电话 TEL: 021-62523029	"上联"牌智能型、高压真空断路器、低压框架、塑壳式、微型断路器、接触器。 Intelligent high voltage vacuum breakers, low voltage frame, plastic shell-type, miniature circuit breakers and contactors of "Shanglian" Brand.
工程与服务 Engineering and services	上海电气输配电工程成套有限公司 Shanghai Electric Power Transmission & Distribution Engineering Co., Ltd. 电话 TEL: 021-52371666	提供国内/海外电力工程领域综合解决方案。 Provide comprehensive solutions for domestic and overseas electric power engineering.
	上海电气承广电力工程有限公司 Shanghai Electric Chengguang Power Engineering Co.,ltd. 电话 TEL: 021-64343588	承接各类低压至220千伏的电力变配电工程及各类高端LED工程:提供一站式解决方案、工程管理、设计、设备采购及施工安装调试等专业服务。 Undertake various power transformation and distribution projects ranging from low voltage to 220 kV, and various high-end LED projects; provide turnkey solutions, engineering management, design, equipment purchase, construction, installation, commissioning and other professional services.
	上海电气输配电试验中心有限公司 Shanghai Electric Transmission & Distribution Testing Centre Co., ltd. 电话 TEL: 021-56037283	电气设备检测及本领域内的技术咨询、技术服务、技术开发。 Testing of electrical equipment and the related technical consulting, technical support and technical development services.
	上海资文建设工程咨询有限公司 Shanghai Ziwen Construction Engineering Consulting Co., Ltd. 电话 TEL: 021-51523935	招投标代理,建设监理、工程项目服务、建设工程技术可行性研究的咨询。 Bidding agency, consulting on construction supervision, engineering project service, and technical feasibility research of construction projects.
	上海电气(江苏)综合能源服务有限公司 Shanghai Electric (Jiangsu) Integrated Energy Service Co., LTD. 电话 TEL:025-83603276	各类工程的设计,施工及总承包能力; 电力设备及各类材料的销售业务; 信息系统及数据处理等服务。 Design, construction and general contracting of various engineering projects; sales of power equipment and various materials; information system and data processing services, etc.

集团使命 MISSION

数智输配电 电亮新生活

Create a new life with digital and intelligent power transmission and distribution services

集团愿景 VISION

成为输配电领域集成化、智能化综合 解决方案提供商和行业标杆

Become an integrated intelligent solution provider and benchmarking enterprise in the power transmission and distribution industry

