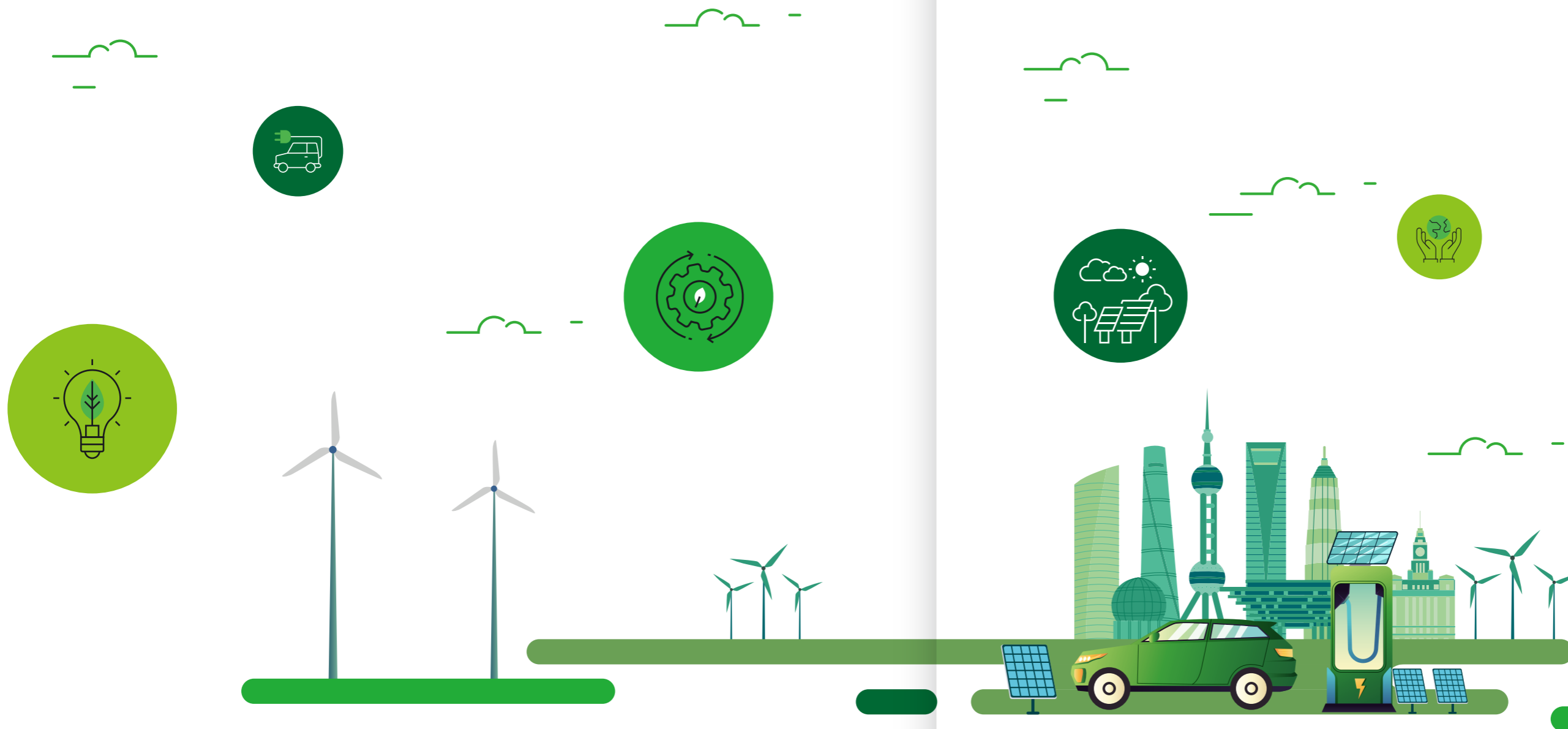


# SOCIAL RESPONSIBILITY REPORT 2023



上海电力设计院有限公司  
POWERCHINA Shanghai Electric Power  
Engineering Co., Ltd.



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2023年度社会责任报告  
Social Responsibility Report

2023

# Preface

## 前言

### 报告概况

本报告为上海电力设计院有限公司(以下简称“公司”)第 12 次公开发布年度社会责任报告

### 报告范围

组织范围:上海电力设计院有限公司所有部门  
时间范围:2023年1月1日至2023年12月31日

### 报告频次

一年 1 次,每年上半年发布上一年度社会责任实践状况

### 报告编制依据

- ◎ 中国工业经济联合会《中国工业企业及工业协会社会责任指南实施手册》(GSRI-CHINA 2.0)
- ◎ 上海市精神文明建设委员会办公室《上海市文明单位社会责任报告指导手册》
- ◎ 上海市经济团体联合会《企业社会责任指南》(SEO-CSR 1.0)
- ◎ 国际标准化组织 ISO26000《社会责任指南》

### 报告形式

本报告以纸质、电子文档形式发布

### 报告反馈

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## 04 ENGLISH VERSION 英文版 02

- 1997 上海市文明单位、连续评为上海市重点工程实事立功竞赛优秀公司
- 2003 上海市高新技术企业
- 2012 全国实施用户满意工程先进单位
- 2013 上海市诚信创建企业、全国质量奖、中国勘察设计协会创优型企业、国家火炬计划重点高新技术企业
- 2014 上海市厂务公开十佳标兵、上海市五一劳动奖、上海市著名商标、全国电力行业用户满意度服务
- 2015 上海市模范职工之家、电力安全生产标准化一级企业、上海市政府质量金奖、亚太质量组织全球卓越绩效奖
- 2017 上海市五星级诚信创建企业
- 2018 上海市市长质量奖
- 2019 苏浙皖赣沪质量 100 佳企业、全国青年文明号、中央企业青年文明号
- 2020 第六届全国文明单位
- 2021 全国市场质量信用 AA 用户满意企业、上海市巾帼文明岗、上海市“慈善之星”提名奖
- 2022 中国光储充电示范品牌、中共瓜州县委瓜州县人民政府支持地方经济发展优秀企业、杨浦区百强企业
- 2023 上海市安全文化建设示范企业、合规管理体系双标认证、上海市厂务公开民主管理工作先进单位

## 历年荣誉

HONORS OVER THE YEARS

### 2012

上海质量体系审核中心第三方评价证书  
上海市经济团体联合会、上海市工业经济联合会“上海市企业社会责任报告发布会”发布证书



### 2013

首次参加上海市社会责任报告发布会



### 2014

第二十六届年度优秀产品与服务营销国际评比“GALAXY 金奖”



### 2015

时任党委书记、副总经理何晖受邀参加发布会并上台领奖



### 2016

时任党委副书记、总经理余寅受邀在发布会发言  
展示公司改革发展成果和社会履责成效  
上海市杨浦区第五届“慈善之星”优秀集体



### 2017

上海市企业社会责任报告发布会“连续五年发布证书”



### 2018

上海市企业社会责任报告发布会“海外拓展奖”  
中国电建“社会责任优秀案例征集评选”一等奖  
入选《<树责任品牌 讲电建故事>社会责任优秀案例集》



### 2019

与崇明竖新镇竖新村签订结对共建协议  
上海市血液管理办公室献血工作考核优秀集体



### 2021

上海市企业社会责任报告发布会“杰出典型企业”  
第十届上海市“慈善之星”提名奖



### 2022

中国电建 2022 年度社会责任管理优秀案例



### 2023

上海市连续十年发布报告单位  
绿色发展企业

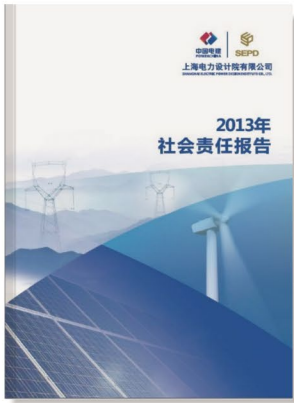


2012-2024

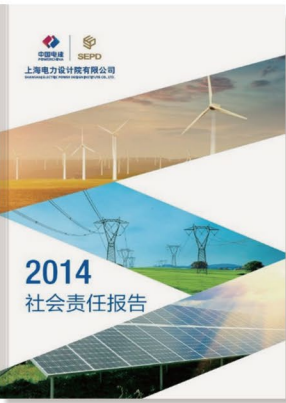
## 社会责任十二年回顾



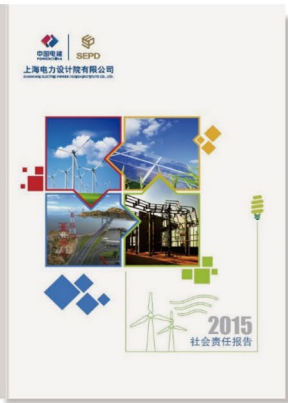
2012 年社会责任报告



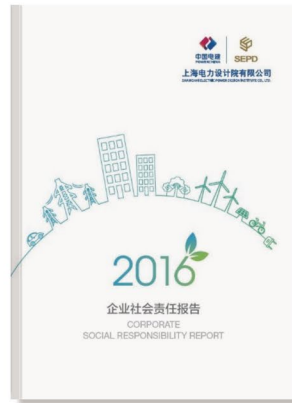
2013 年社会责任报告



2014 年社会责任报告



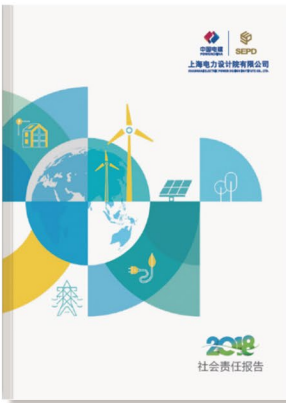
2015 年社会责任报告



2016 年社会责任报告



2017 年社会责任报告



2018 年社会责任报告



2019 年社会责任报告



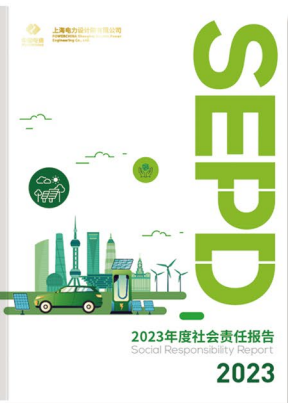
2020 年社会责任报告



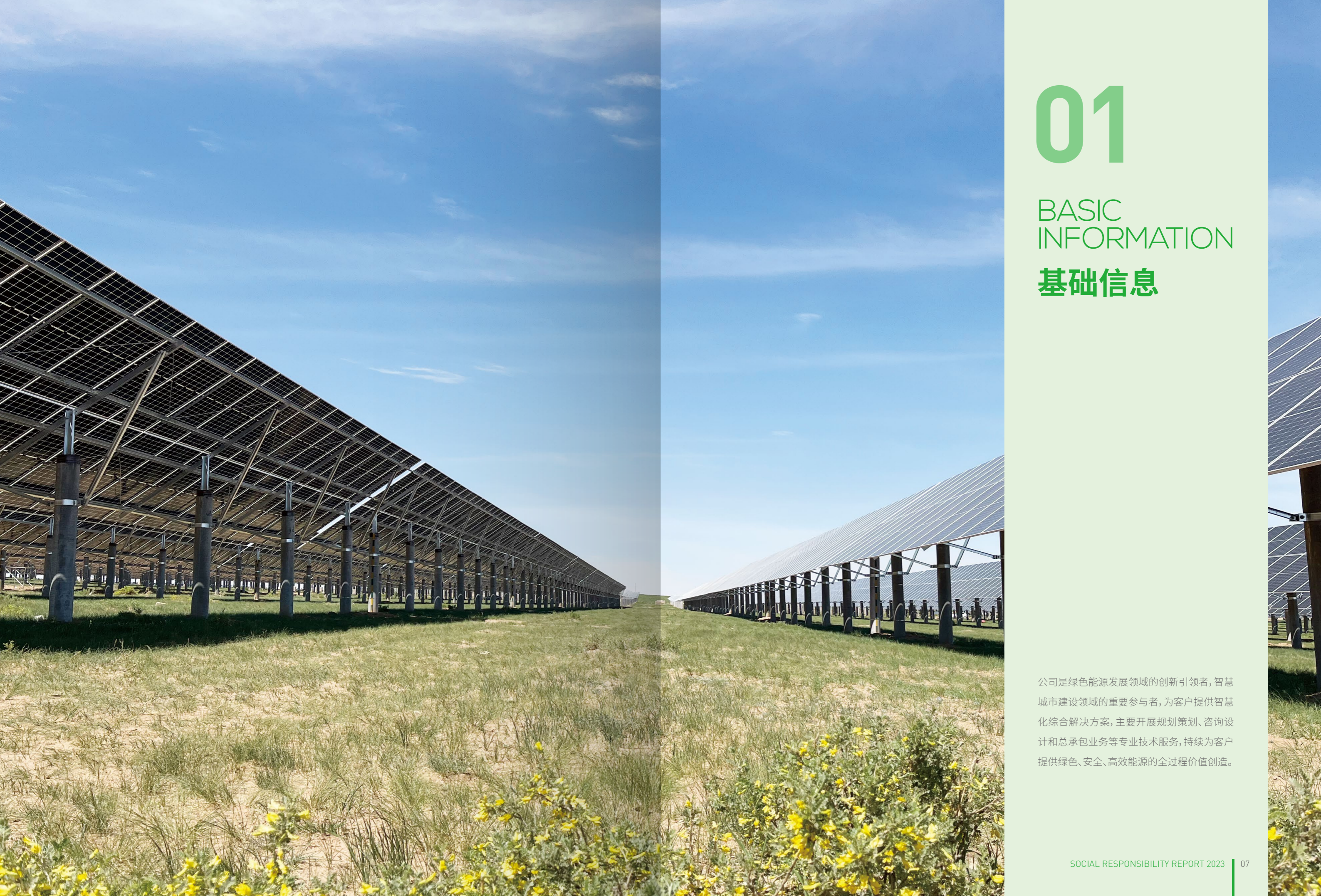
2021 年社会责任报告



2022 年社会责任报告



2023 年社会责任报告



# 01

## BASIC INFORMATION

### 基础信息

公司是绿色能源发展领域的创新引领者，智慧城市建设领域的重要参与者，为客户提供智慧化综合解决方案，主要开展规划策划、咨询设计和总承包业务等专业技术服务，持续为客户提供绿色、安全、高效能源的全过程价值创造。

# 领导致辞

LEADER'S SPEECH



蔡光宗

党委书记  
董事长



王宇卫

总经理  
党委副书记

## 不忘初心、争做责任央企 以企业高质量发展推动履行社会责任

2023 年，是贯彻落实党的二十大精神的开局之年，也是上海电力设计院有限公司学习贯彻习近平新时代中国特色社会主义思想，推动“十四五”发展规划落地实施的关键一年。这一年，上海院持续推进改革转型，不断提升核心竞争力，培育优秀文化、弘扬优秀精神，完善工作机制，扩大工作成效，在履行社会责任的道路勇毅前行。

**转型升级，推动企业创新发展，筑牢履行社会责任的经济基础。**我们肩负建设绿色高效能源和服务低碳智慧城市的光荣使命，紧抓国内国际双循环和能源绿色低碳转型战略重大机遇，聚焦“一利五率”指标“一增一稳四提升”要求，从战略顶层设计、组织机构优化、治理结构规范、技术创新突破、市场开拓延伸、人才培养提升等方面着手，持续推进管理改革、提质增效，不断提升公司核心竞争力，加大与国内、外各相关方的交流合作，推动企业在建设绿色能源与智慧城市领域一流的科技型工程咨询公司的道路上不断前行，为积极履行社会责任奠定坚实的基础。

**文化聚力，弘扬优秀企业精神，营造履行社会责任的文化氛围。**2023 年，是上海电力设计院有限公司公开发布年度《社会责任报告》的第 12 年。我们始终坚持履行央企社会责任的决心和信心，积极践行社会主义核心价值观，以“我们能够做得更好”的企业理念为指引，不断培育上下同欲的企业文化体系，在合规文化、安全文化、执行文化、廉洁文化等文化建设上持续发力，更广泛团结凝聚公司党员干部员工的力量，不断扩大履行社会责任的广度和深度，构筑履行社会责任的精神基础。

**回馈社会，提升价值创造能力，探索履行社会责任的方式方法。**上海院坚决履行央企担当，将社会责任履行与生产经营工作深度融合，构建企业与员工命运共同体，推动员工共享企业发展成果。我们构建三个层面管理体系，围绕八大主题，聚焦社会需求、经营环境、环保节约、安全生产等关键内容，将社会问题转化为发展动力，努力为社会、政府、客户提供绿色能源发展领域和智慧城市建设领域的智慧化综合解决方案，持续提高经济、社会、环境综合价值创造能力！

# 关于我们

ABOUT US



60 年  
发展历史



为数不多  
员工持股企业



10+ 项  
资质



74 座  
地下变电站业绩



31 个国内业务涉及  
省、市、自治区



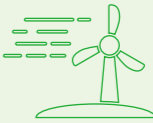
38 个海外业务  
涉及国家



连续 12 年公开发布  
《社会责任报告》



80+ 项省部级以上  
工程设计奖项



1000+ 项  
太阳能、风电项目



100+ 项  
工程数字化设计

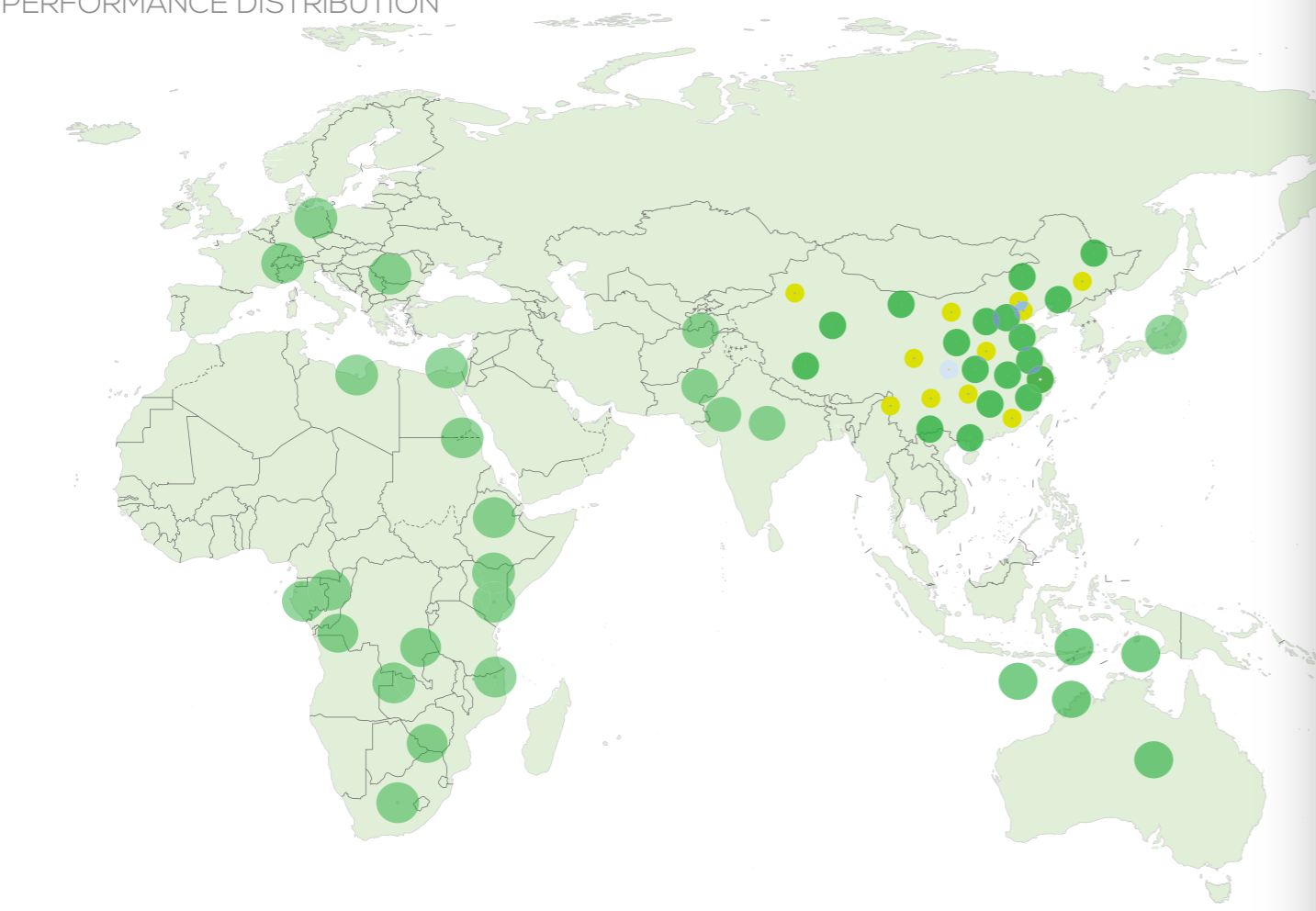
**回首来时路，我们以优异成绩记录成长。**经过 12 年的社会责任履行，我们积淀了优秀的责任基因，在习近平新时代中国特色社会主义思想的指引下，我们在企业发展、管理提升、精神文明建设等工作中取得丰硕成果。全国质量奖、中央企业先进集体称号、中国建设工程鲁班奖、国家优质工程金奖、全国文明单位、全国青年文明号、中央企业青年文明号……这些国家级奖项见证了我们为行业发展、环境健康、社会进步等方面持续奋斗的点滴。

**展望未来途，我们继往开来再创新辉煌。**2024 年，恰逢新中国成立 75 周年，也是上海院实现“十四五”发展规划、建设“绿色能源与智慧城市领域一流的科技型工程咨询公司”的关键之年。我们将坚持稳中求进、以进促稳、先立后破总体要求，锚定“十四五”发展目标，纵深推进“双域五化”战略，努力培育“三种文化”，积极弘扬“三种精神”，不断凝聚发展共识、增强发展信心、激活发展动力，全力以赴打造一流企业，谱写上海院更高质量发展的壮美华章，为新中国成立 75 周年献礼。

党委书记 董事长 蔡光宗  
党委副书记 总经理 王宇卫

# 业绩分布

PERFORMANCE DISTRIBUTION

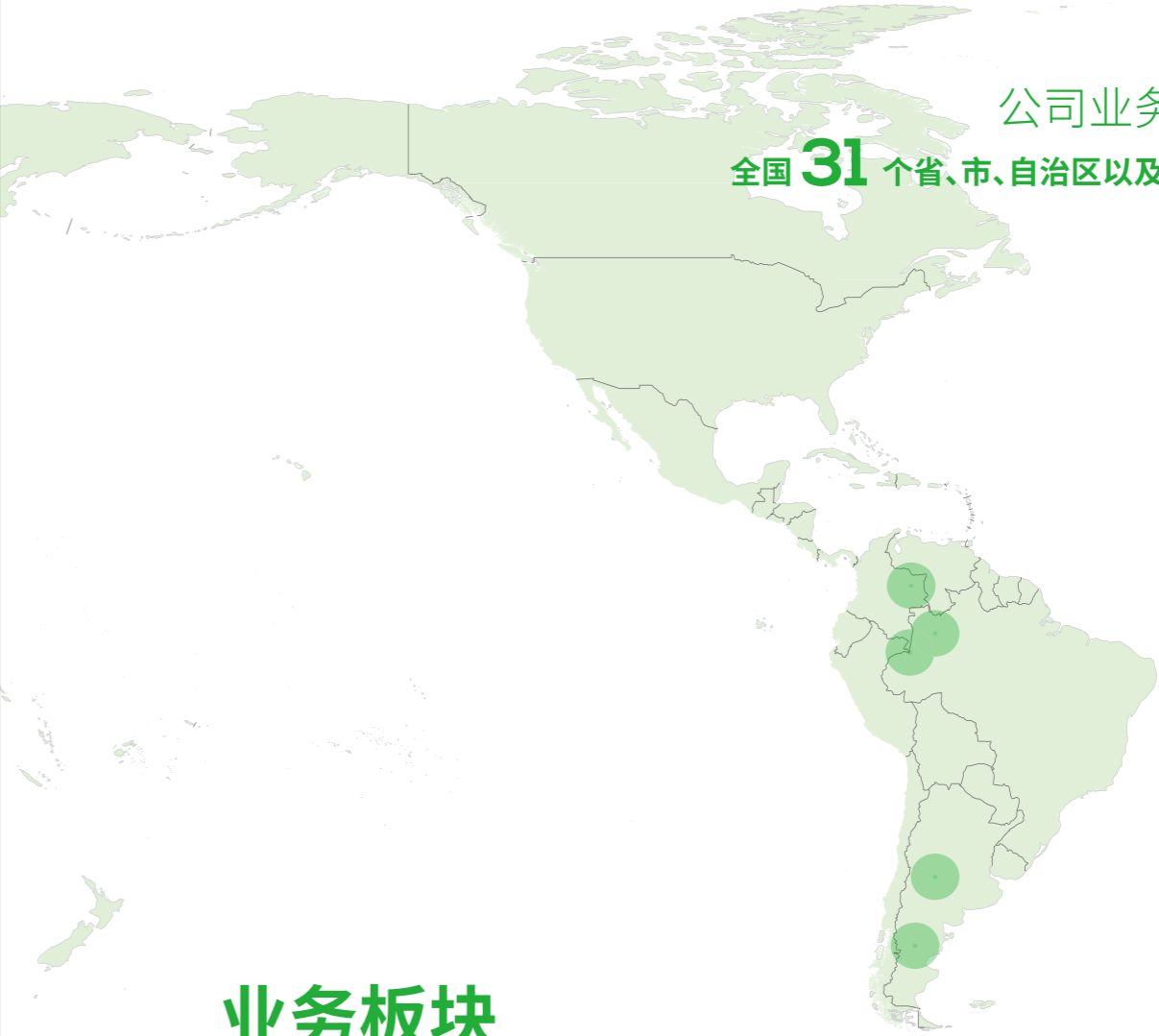


**上海电力设计院有限公司**（英文名称：POWERCHINA Shanghai Electric Power Engeering Co.,Ltd. 简称 SEPDC）于 2001 年由上海电力设计院改制成立，是中国电力建设集团有限公司控股子公司。拥有电力勘测设计甲级资质、岩土勘察设计甲级、监理甲级、电力工程施工总承包二级、市政热力乙级、建筑工程乙级、测绘乙级、承装（修、试）电力设施许可四级等资质，拥有行业勘察设计大师 3 人，各类注册职业资格从业人员资格获取比例位居行业第一。业务遍及全国 31 个省、市、自治区，并远涉亚洲、欧洲、美洲、非洲多个国家地区。

上海院拥有国际领先技术 **10** 项，国际先进技术 **5** 项，国内领先技术 **7** 项，包括风光储系统设计技术、**35kV** 高温超导电缆关键技术、超高压地下变电站设计技术、大型城市能源规划咨询技术、复杂环境下大容量风电场关键技术等。连续 **20** 年获得上海市高新技术企业、国家火炬计划重点高新技术企业称号，承担多项国家“**863**”科技项目和国家重点研发计划，获得省部级以上科技进步奖 **52** 项，工程建设、设计奖 **133** 项；主编或参编国际标准 **2** 项，国家标准 **25** 项、行业和地方标准 **82** 项，团体和企业标准 **64** 项，持有专利 **275** 项。近年来，上海院先后获得第十三届全国质量奖、上海市质量金奖，上海市市长质量奖，并获得亚太质量组织最佳奖、中央企业先进集体、全国文明单位、上海市企业社会责任报告发布杰出企业、上海市安全文化建设示范企业、上海市厂务公开民主管理工作先进单位等荣誉称号。这些省部级、集团级、行业级荣誉都是对上海院的社会贡献和企业形象的全面肯定。

在高质量发展的同时，上海院积极履行社会责任，秉持“**我们能够做得更好**”的企业理念，保持良好的企业效益，同时重视关注社会生态效益，创造了数个社会效益明显的品牌项目，逐渐打造出“**光伏领跑者**”、“**新能源领跑者**”、“**绿色智慧能源引领者**”的企业品牌。

2023  
公司业务市场遍及  
全国 **31** 个省、市、自治区以及 **38** 个国家



# 业务板块

BUSINESS SEGMENTS





# 02

## CORPORATE RESPONSIBILITY PRACTICE AND PERFORMANCE

### 责任实践 与绩效

围绕“科学发展、诚信和公平运营、环保节约、安全生产、经济责任与顾客权益、合作共赢、员工与和谐劳动关系、社会共建”八项核心主题践行社会责任，携手合作伙伴，稳健推进行业技术革新，努力推进业务创新，加强业务合作，为客户提供优质、高效、经济、可靠的技术支撑，持续提升优质服务水平，努力向实现“绿色能源与智慧城市领域一流的科技型工程咨询公司”的企业愿景迈进。

# 科学发展

SCIENTIFIC DEVELOPMENT

## 科学规划

公司坚持以促进转型升级为目标,以满足客户需求、为客户创造价值为导向,以质量效益为中心,以培育和发现新业务为增长点,以发挥优秀企业文化的融合、凝聚作用为保障,将社会责任、服务和谐社会的战略理念融入在贯彻执行公司发展战略的过程中,推动企业取得新的突破,实现新的发展。



每年召开年度科技创新工作会议



第三届创新创业大赛

## 推动科技创新

2023 年科技投入 17929.54 万元,拥有上海市高新技术企业称号,在研上海市科委重点项目 3 项、中国电建重大专项 1 项,重点项目 4 项;获批中国电建重点项目 1 项;经鉴定国际领先成果 2 项、国内领先成果 1 项;2023 年获得省部级科技进步奖 2 项,集团级科技进步奖 5 项,获得地/市/厅/局级科技进步奖 2 项,省部级工程设计奖 14 项,集团级工程设计奖 10 项,省部级工程勘测奖 3 项,省部级优秀计算机软件 1 项。

2023 年获得专利授权 23 项,其中发明 14 项,实用新型 9 项;申报专利 58 项,其中发明 46 项,实用新型 12 项;获得软件著作权 5 项;发表论文 67 篇 (SCI 论文 1 篇, EI 论文 18 篇,北大核心 6 篇),获得专有技术 2 项。2023 年,紧紧围绕推动行业健康可持续发展目标,参与国家、行业、地方标准规范制订共 72 项。



上海市高新技术企业证书



上海市科学技术奖一等奖

## 主要领先技术

 国际领先

- 200 米级吸热塔结构及基础设计研究
- 城市密集区叠合上盖建筑的超高压地下变电站建设关键技术与应用
- 风光储电站系统设计技术研究与应用
- 复杂环境中 500 千伏地下变电站与非居建筑联合建设关键技术与应用
- 高渗透率分布式可再生能源发电集群的规划设计技术
- 高温超导电缆在电力系统的应用技术研究
- 以电为中心的多能协同综合源系统规划技术研究
- 智能化分布式微网供能系统关键技术
- 适应光储充多元化设施接入的平台型直流街区关键技术研究
- 新型电力系统背景下城市电网全场景结合 5G 通信的新型电力通信系统技术栈

 国际先进

- 复杂环境大容量智慧风电场集群建设与高效运行关键技术与应用
- 主动配电网可靠性计算方法研究及商业软件开发
- 《SEPD 网觅搜索系统》计算机软件
- 智能电网下多种储能技术的工程实用性研究
- 智能配电网关键技术研究

 国内领先

- 电网新基建下城市变电站多场景建设的工程技术研究
- 电力设计企业知识管理关键技术研究及应用
- 钢结构变电站绿色建造关键技术与应用
- 《上海电力设计院工程造价信息化平台》计算机软件
- 农光及渔光互补光伏电站设计技术研究
- 光热发电站设计关键技术
- 适应‘电-碳’市场协同发展的行业配额及减碳成本分摊策略研究

发展投入

经济投资

关注行业与民生结合  
推动地区发展

社会投资

关注国内外行业前沿技术  
推动科技发展

环境投资

关注生态平衡与可持续发展  
推动和谐生态发展

国际赛事

为国际重大赛事大型会议保驾护航

公司承担了亚运会、亚残运会开闭幕式保供电主系统及场馆微电网、世界花样滑冰锦标赛、亚信峰会等多项大型国际会议活动的保供电设计工作。



政企合作

瓜州县人民政府“2022 年度支持地方经济发展优秀企业”

与瓜州县人民政府签署“共建双碳城市”战略合作协议，积极响应瓜州县委、县政府“生态立县、工业强县、人才兴县”战略，切实履行企业社会责任和法定纳税义务，主动支持地方经济高质量发展。



市政工程

杨思 220 千伏变电站及高压走廊改造工程(隧道部分)

工程隧道沿线穿越中环高架、河道、轨道交通等多个风险点，建成后将释放土地资源，以“电力先行”助力上海经济社会高质量发展。



省重点工程

湖北恩施东朝阳 500 千伏线路

公司首个外省 500 千伏线路工程，全线位于高海拔重冰区，地质条件复杂，是湖北省电力有限公司的重点工程。



上海援藏

参与西藏自治区能源业务及总体规划

支持西藏自治区新能源产业的发展，为西藏自治区实现“双碳”目标贡献智慧和方案。



校企合作

与上海电力大学团委建立青年发展实践基地

在团建、社会实践、科技创新、就业招聘等领域深度交流与合作，发挥高校与企业联动的乘法效应，促进团企融合、校企联合。



主流媒体

《新闻晨报》：公司入围 2023 年度上海绿色低碳服务机构名单

聚焦“能源”与“城市”，立足能源产业，坚持围绕绿色、高效开拓能源业务版图，创新城市场景，把握城市低碳、智慧的发展需求逐步扩大城市业务版图。



社责案例

2024 年电力企业社会责任及 ESG 优秀案例《“1+5+X”城市智慧能源共生体工程案例》

案例讲述了项目聚焦城市变电站与周边环境融合建设,对高质量建设现代化能源基础设施,减少邻避效应、营造绿色市政环境,打造绿色低碳城市具有探索意义。



诚信与公平运营

INTEGRITY AND FAIR OPERATION

合规管理

把握合规重点，实施合规管理。发布合规管理制度文件，形成“1+6+N”合规管理制度体系；健全组织体系，调整合规管理委员会，任命首席合规官；完善合规管理运行机制，深入推进合规文化建设，强化全员合规意识。建立投资、海外等重点业务领域合规管控制度和流程，健全并严格执行投资项目合规评审制度，通过聘请专项涉外律师，审查海外项目的合法性、合规性。经中质协质量保证中心认证，公司合规管理体系符合 GB/T35770-2022/ISO37301: 2021。

员工普法宣传率达 100%

员工劳动法知晓率 100%



合规管理体系国际标准 ISO 37301，是 ISO 于 2021 年 4 月发布的国际合规管理体系认证标准，为各类组织提高合规管理能力提供了系统化方法。自颁布以来，该标准受到监管部门、律师行业协会和企业管理界的高度关注。

公司副总经理、总法律顾问、首席合规官林勇锋荣获 ISO 37301 年度人物奖



合规管理体系双标认证



《诚信合规行为准则》



法治合规电子期刊《知行》



廉洁从业学习教育简报

诚信经营与服务

诚信经营理念

公司严格遵守社会公德、遵守市场秩序，以诚实守信、实践诺言为行为规范，提出“明确始终以诚实守信的态度、守法合规的行为、勇于担当的作风；脚踏实地、心无旁骛、攻坚克难，实现科学发展”的“诚信担当”内涵，在日常经营工作中认真贯彻执行国家法律、法规和政策，有针对性地进行法治、合规、风控宣传教育，提升员工诚信经营、遵纪守法理念。公司将诚信创建工作纳入内部管理，被评为上海市“五星级诚信创建企业”、获“诚信在线”信用标识。

合同管理规范

合同管理覆盖全过程，结合信息系统全面管控，合同履约率为 100%。



上海市守合同重信用企业



合同信用等级 AAA 级



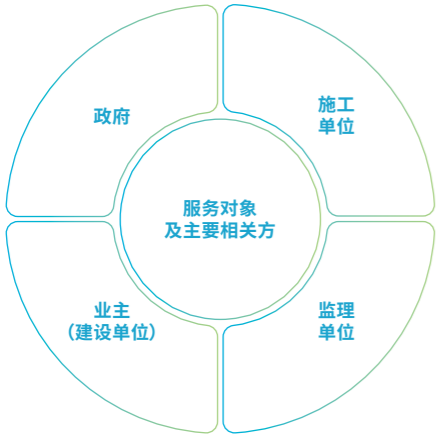
中国电力规划设计协会企业信用 AAA 等级



中国电力企业联合会企业信用 AAA 等级

顾客投诉体系健全

为提高顾客满意程度，公司建立和实施顾客投诉处理程序和快速响应机制，回访投诉处理满意度。



财务管理规范

- 加强建章立制
  - 夯实会计基础
  - 健全财务内控管理
- 聚焦业财融合
  - 完善信息系统
  - 提升财务管理效能
- 强化预算管理
  - 着力过程控制
  - 保障公司目标落地
- 创新融资管理
  - 保障资金需求
  - 提升资金使用效率

公平竞争

公司积极支持、贯彻落实国家公平、公正竞争的市场竞争公共政策，以“优良素质、优秀设计、优质服务”的“三优”精神提升自身竞争力和综合实力，品牌知名度和美誉度显著提升。

制定招标投标管理制度，防止介入或陷入反竞争行为。

制定合法合规合理的采购原则，做到公平公正。

对采购行为进行信息公开，提高透明度。

建立战略合作，与供应商共同发展。

禁止商业贿赂和腐败行为

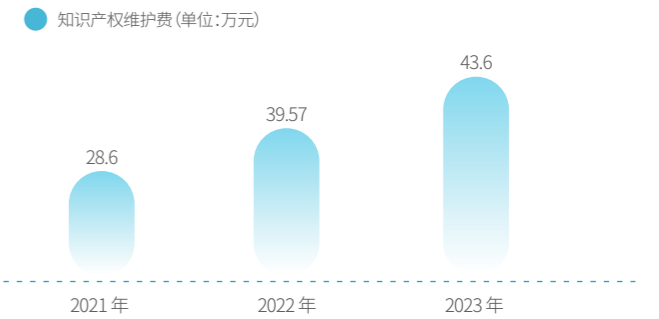
公司对商业贿赂和腐败行为采取“零容忍”政策。在商务活动中，公司坚持诚实守信、平等协商、互利共赢的原则，恪守商业道德，遵守相关的法律法规。严格遵守所有适用的反商业贿赂和反腐败的法律法规，禁止任何形式的贿赂和腐败行为。员工应当严格遵守公司《反腐败政策》，坚决抵制一切腐败行为。

加强商业伙伴合规管理

公司制定商业伙伴合规管理制度，促进商业伙伴诚信履约，防范信用风险，维护公司合法权益，推进建立互利互信的长期合作关系；密切关注相关方合规性，监督商业伙伴合规性，共同促进合规作为公司一项重大责任。公司坚持与合规管理、履约能力强的相关商业伙伴开展合作，与合作伙伴共同推进自主履行相关合同义务或承诺，奠定商业伙伴合规管理的基础和条件。

尊重产权

有效避免侵权行为，定期对产权有效性进行评估，由专业代理律师进行知识产权文献检索和“三性审查”（新颖性、创造性、实用性）。对于共同拥有的产权，严格遵守相关合同及国家法律法规，维护企业及利益相关方权利和利益。制定《知识产权管理办法》、《科技工作成果奖励办法》、《科技论文管理办法》知识产权相关政策规定。



# 环保节约

ENVIRONMENTAL PROTECTION AND ENERGY CONSERVATION

## 环境管理

### 环境管理体系规范

建有完整的节能环保制度体系，公司发布执行《节约能源与生态环境保护责任制》、《节约能源与生态环境保护管理办法》、《节约能源与生态环境保护统计监测办法》、《生态环境保护污染源与风险识别评价制度》，确保节能环保管理工作规范、有序，建立有《环境污染事件应急预案》，明确各级环境污染事件的应急响应和处置程序。

### 环保治理绩效

切实履行中央企业节约能源与生态环境保护主体责任，建设资源节约型和环境友好型企业，建立完善的节能环保管理规章制度和有效预防污染事故发生的措施。



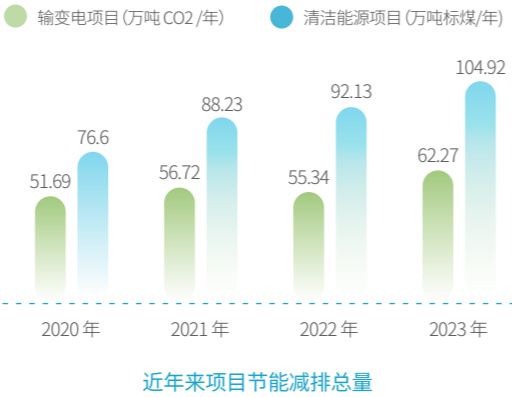
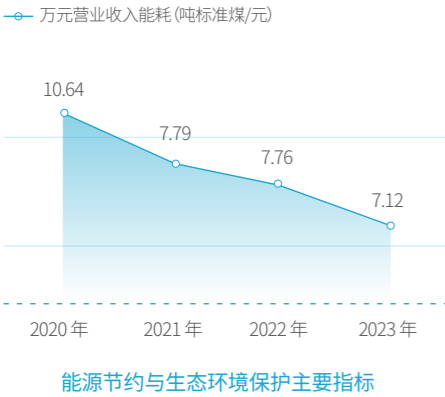
通过质量、环境、职业健康“三标”管理体系认证监督审核

#### 咨询设计

充分考虑对生态环境的影响，响应资源节约型环境友好型的社会要求。

#### 项目建设

严格按照生态环境主管部门要求，提供生态环境保护各项增值服务。



# 植入绿色理念

案例

京能查干淖尔电厂风光火储氢示范项目阿巴嘎旗 20 万千瓦光伏项目



项目装机总容量为 203.13MWp，是环保、低耗能、节约型的光伏发电项目。建成投产后与相同发电量的火电厂相比，每年可为电网节约标煤约 100403.12 吨，相应每年可减少多种大气污染物的排放，其中减排 27.57 吨二氧化碳、33.63 吨二氧化硫、50.62 吨氮氧化物、7.33 吨烟尘。在达到充分利用可再生能源、节约不可再生化石资源的目的下，将大大减少对环境的污染，节约淡水资源，同时对改善大气环境有积极的作用。

案例

国家第二批风电光伏大基地项目、国内在建单体容量最大的光伏项目



蒙西鄂尔多斯采煤沉陷区 3000MW 光伏项目打造农光、牧光互补电站，实现“板上发电、板下养殖”，每年为带动当地城乡建设及扶贫贡献约 1200 万元；项目每年可产生 56.7 亿千瓦时绿色电力，相当于节约标煤 171 万吨。技术方案多元、先进，与工程同步开展科技项目，并进行设计优化、“四新”技术应用，光伏基地通过光伏单列形成巨大的“马兰花”造型，生态和景观效应显著。

案例

公司首个全资控股建设的新能源发电项目

山西省和顺县吕鑫露采矿复垦土地绿色生态治理 100 兆瓦光伏 + 生态园项目采用“农光互补”建设模式，提升现有土地资源的综合利用效率，带动地方群众就业，壮大乡村集体经济，实现新能源产业和传统产业同步发展，助力乡村振兴。



案例

新加坡首个变电站屋顶光伏项目

新加坡能源集团 (SP Group) 变电站屋顶光伏总承包项目 Telok Blangah 变电站屋顶光伏项目为新加坡新能源模式开创先河，新加坡能源局 EMA 对项目成功并网表示祝贺。



绿色研发

公司积极开拓新能源市场,配合城市轨道交通建设配套电力工程项目,促进环境友好型城市发展,积极探索城市电动汽车充换电技术,缓解传统汽车对环境的影响,加大科技投入和技术攻关力度,推动风电、太阳能等清洁能源设计,带动产业内整体节能。

案例 长三角一体化联动海纳小镇先导项目

海纳工程院碳中和示范建筑项目是由上海真如城市发展有限公司开发建设的低碳数字化研发办公楼，总建筑面积 12675 平方米，项目引入王坚院士工作室，是该区域标志性建筑。项目光伏年发电量约 120 兆瓦时，可再生能源电力替代率达到 14.92%，建筑能耗强度降低幅度达到 26.09%，年减少 CO2 排放量约 50.8 吨。项目已被列为联合国人居署城市优秀实践案例，取得“绿色建筑三星级预评价证书”。



案例 国内首套大规模“光伏+气膜”电站

江苏常州港录安洲码头 4 座气膜大棚光伏项目光伏大棚总投影面积超过 27 万平方米，作为散货码头全封闭料仓。项目直流侧安装总容量 11.6 兆瓦，其中 7.66M 兆瓦分布在 4 座气膜顶部，气膜部分采用柔性组件，组件通过锚固件固定于气膜外侧，通过调整气膜内压支撑组件、抵御风雪载荷。项目投运后不仅满足码头近半用电需求，同时预计年减少二氧化碳排放 9500 吨。



案例 广州保利洲际酒店中央空调系统节能优化项目

项目是广州琶洲地标建筑，采用合同能源管理模式，基于“消除浪费，风水联控，提高能效”策略，对空调冷源和末端风系统联合优化控制，年空调系统节能率 29.9%、年减少碳排 1155 吨。



案例 复旦大学附属中山医院东院区 5 号冷站物联网智控节能项目

项目对医院 5 号冷站增加基于物联网、人工智能和大数据等新技术的空调物联网智控节能系统，通过调试实现空调系统的节能自控功能，年空调节能率超 20%、年减少碳排 672 吨。



案例 公司投资的首个充电站项目正式上线运营



公司与北京小桔科技有限公司合建的“中国电建上海院荣潮小桔快充站”于上海市浦东新区南六公路荣潮汽车园正式上线运营。该充电站为集中式智慧充电场站，24 小时对外开放运营，场站建设规模为两台 1600 千伏安箱变，配备 60 千瓦功率充电桩 22 台、充电车位 44 个、安装总容量 2640 千瓦。

绿色考核

公司通过将节约能源管理全面纳入年度工作考核,提高资源利用率,履行社会责任,提升企业绿色竞争力,推动企业与自然的和谐发展。努力建设资源节约型和环境友好型企业,建立健全能源节约工作的组织体系和管理制度,连续多年万元营业收入能耗呈下降趋势。

绿色行动

开展“世界环境日”、“全国低碳日”、“节能宣传周”活动,促进员工树立环保意识,养成良好节能习惯,倡导节能、低碳、环保生活。推广“美丽中国,我是行动者”主题,组织绿色出行城市定向活动、节能宣传周活动,向群众宣传绿色出行观念,为绿色发展贡献力量。



# 安全生产

WORK SAFETY

### 安全理念

安全发展  
共筑未来

### 安全价值观

落实责任，严守制度  
持续创新，追求卓越

### 安全愿景

铸就安全品牌  
引领行业标杆

### 安全使命

坚守安全底线，压实安全  
责任，化解重大风险



上海市安全文化建设示范企业



安全文化专题片、手册及宣传栏



## 安全生产管理

### 安全生产责任体系



### 安全生产与职业健康

#### 数读·2023

建立健全安全生产制度体系，现有**30**项安全生产与职业健康管理制度，不断完善安全生产重要岗位履职清单，覆盖公司、部门、项目部三级共计**76**个岗位，充分体现“横向到边、纵向到底”范围覆盖。

安全管理模式创新。压实主体责任，强化安全理念；抓牢管理“三基”，提升一线能力；夯实双控机制，创建示范企业；推动标准管理，巩固应急成效；实施数智提效，提速“科技兴安”；夯实环保基础，提升管理能力。

## 安全生产投入

不断完善《安全生产费用管理办法》，费用提取和使用均纳入年度财务预算。2023年14号强台风“小犬”来临之际，第一时间发布预警信息、分发应急物资，相关地区总承包项目部迅速落实防台专项工作措施，确保汛期安全。

### 安全生产教育和培训

#### 《安全生产教育培训管理办法》

《安全生产与职业健康、能源节约与生态环境保护教育培训计划》

网络学院 内部讲评 外送培训 外聘专家授课

| 年份   | 安全培训次数 | 安全培训人次 | 安全培训学时 |
|------|--------|--------|--------|
| 2021 | 24     | 4055   | 8270   |
| 2022 | 25     | 5030   | 8521   |
| 2023 | 26     | 6017   | 8744   |

### 增强预防和应急处理能力

开展专业化安全教育活动，通过安全生产月系列活动、安全宣传咨询日、全员教育培训、安全生产“公开课”、实战演练等形式，实现逃生疏散演习找消防、新交规解惑找交警、健康咨询找医生、政策解读找安监，提升安全生产培训专业性和权威性，提升员工安全意识，增强应急处置能力。



专项应急演练



安全生产咨询日

## 安全生产检查

### 安全生产检查机制

#### 数读·2023

采用“**2+1**”的方式，即**2**名外部专家+**1**名安全专职联合开展检查，在查评的同时提升安全专职人员知识水平，开展公司级安全检查**30**次，总承包项目安全检查覆盖率**100%**。

### 消除社会安全隐患

按照排查治理流程对隐患进行闭环管理



### 安全生产事故处理

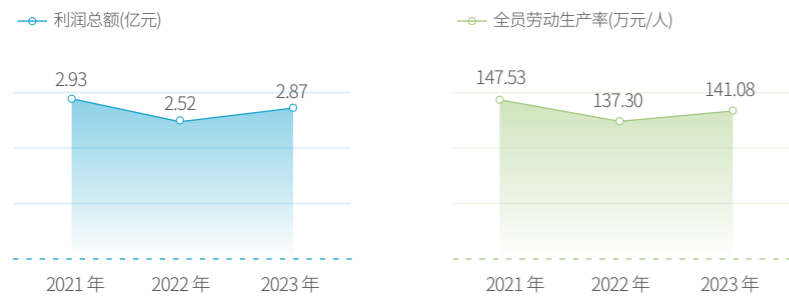
健全应急管理机制建设，公司应急管理领导小组以董事长为组长，建立以**1**个综合预案、**19**个专项预案、**5**个现场处置方案组成的应急预案体系。

# 经济责任与顾客权益

ECONOMIC RESPONSIBILITY AND CUSTOMERS' RIGHTS AND INTERESTS

## 利润与经济效益

数读·2023



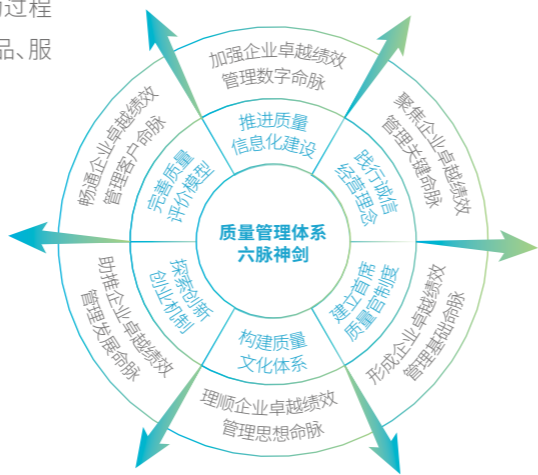
质量管理体系认证证书

## 产品与服务

公司树立以卓越绩效标准测量、评价一切生产、经营和管理活动过程和成果的思维模式,进一步完善整合型管理体系建设,把公司产品、服务和管理工作质量提高到新水平。



### 首席质量官创新实践模式



## 创新产品服务

重视顾客的感受和意见,结合新市场形势和关键顾客需求,对重点项目开展全覆盖的设计质量征询,建立客户管理档案,快速响应客户意见,保护客户信息安全。

国优金奖

张家口-北京可再生能源综合应用示范工程

荣获 2022-2023 年度国家优质工程金奖,是获得该奖项的国内首个百万千瓦级陆上风电项目。项目横跨地域范围广、环境条件复杂,是应用多种新型技术的示范工程,是供应清洁高效绿色能源的奥运工程、展现国企形象的窗口工程、持续创新的智慧能源工程、脱贫攻坚的助力工程。



## 提升总承包全过程管理

遵循“高质量”发展和“精益化”管理理念,关注一体化监管围绕项目管理的全过程、全要素两个关键内容,2023 年发布《总承包项目进度管理细则》,有效指导和监控后期项目实施。

5A 优质精品工程奖

广西华谊氯碱 30 万吨/年烧碱、40 万吨/年聚氯乙烯项目

高标准、高要求建设 220 千伏总降压站,积极进行创优策划,建立质量创优领导小组,严格对项目进行全过程质量控制,坚持样板工程引路、技术文档与施工进度同步、信息化质量管理,加强施工人员质量培训,提高全体建设人员的质量意识。



2021-2022 年连续获评“杨浦区百强企业”



2023 年度上海市用户满意五星标杆级企业

## 对供应链伙伴的责任

公司维护企业产权人权益,以公开、公平、公正的原则实施采购,实现采购合规性与经济合理性。通过项目群集中采购、年度框架采购等方式,提高采购效率;采用供应商分级制度,培养核心供应商体系,合作共赢;遵守利益保障措施,遵守与供应商签订的合同及内部制定的结算办法,通过采购合同审核会签保障合同的公平有效;有效控制资产负债率,保障企业良好运转,保障债权人的利益;构建采购管理制度体系,发布并执行集中采购、勘察设计分包采购、总承包项目剩余物资等管理办法,明确合格供应商管理要求,以及非设备物资采购结算细则;及时公开政策及承诺,将所有采购制度、年度供应商评价报告、年度框架邀标结果在公司信息系统中进行信息公开。

# 合作共赢

WIN WIN COOPERATION

## 服务国家战略

深度参与雄安新区建设,上海院“智慧平台”团队、“典型设计”团队奔赴雄安,在雄安新区高起点规划的理念指导下,持续深入开展雄安新区电网规划及技术相关专题研究。参与国家级大基地规划,发挥“规划引领”的带动作用,参与国家“三交九直”、三地一区大型新能源外送基地规划编制。参与内蒙库布齐、乌兰布和、腾格里等沙漠以及张家口、大同等外送基地规划编制,为国家第二批新能源大基地落地及公司各区营销开辟道路。

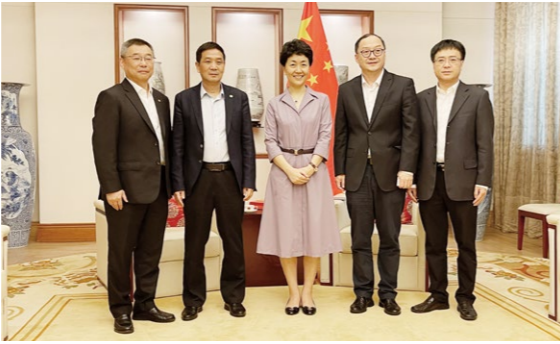
海外业务坚持“深耕战略”,在澳大利亚光伏、储能和输配电网领域取得突破,与多家客户建立稳定关系,签订多个 EPC 项目合同;在新加坡与多家政府背景公司和企业合作,成功履约多个光伏和变电站项目;在菲律宾和多米尼加承担了重要输电线路和配电网升级项目,建立良好口碑和品牌。



公司领导拜访中国电建亚太区域总部



公司领导拜会苏里南驻华大使张碧芬



公司领导拜会中国驻新加坡大使孙海燕

## 推动上海市能源结构调整

为谋划“十四五”发展,上海院承接了上海市发改委深远海风电输送通道研究工作,完成上海深远海上风电接入系统、消纳、海上及陆上通道专题报告,获得上海市发改委和上海市电力公司的高度认可,为上海“十四五”和中长期实现双碳目标打下了良好基础。

## 探索商业模式

公司坚持以企业品牌优势和技术优势赢得客户信赖,从“张北模式”、“青海模式”、“大同模式”到“能效提升合同能源管理模式”,勾勒出业务模式从技术引领、规划先行到投资带动的创新发展之路。



公司与榆社县政府签署战略合作协议



公司与华为签订战略合作协议



公司与湖北邮电规划设计有限公司签订战略合作协议



提升公司品牌影响力

制定品牌建设规划，着力打造电力勘测设计行业“特、优、强”品牌形象。



公司参展 SNEC 国际太阳能光伏与智慧能源大会



公司参展首届上海国际碳中和博览会

“两商”权益保障

保障“两商”合法权益  
公开对“两商”的承诺

与供应商的合作以共同发展为原则，本着公平、平等、互利的要求，明确双方的权力义务，明确分包商、供应商相应的合法权益，通过合作协议等形式公开对分包商和供应商的承诺。

将道德、环境等社会责任  
融入企业采购、分包过程

公司采购合同附有廉洁协议，明确双方责任与义务；定期对采购部门进行风险防范检查，确保采购廉政廉洁性。对合格供应商进行年度评价，涵盖供应商产品或服务的过程对环境、社会的正向影响。

监测“两商”社会责任实践

供应商、分包商准入评审时，对其资质资格、财务状况、信誉荣誉、企业业绩、三标体系、各类处罚等进行全方位评审，实现对供应商的事前监管。

企业员工命运共同体

推行员工持股计划

作为业内较早实行员工持股计划的电力设计企业，逐步建立起以产权多元化为特点的现代企业制度，不断完善法人治理结构和股权激励机制，员工通过职工持股会持有企业 40% 股权，企业与员工以股权为纽带形成利益共同体，发挥企业职工主人翁意识，形成企业与员工共同发展良好格局，实现企业资产的保值增值。

员工与和谐劳动关系

EMPLOYEES AND HARMONIOUS LABOR RELATIONS

员工录用

录用程序规范、透明

用工规范，以法律为底线，以社会责任为己任，公开录用标准，制度面前人人平等，无性别歧视、民族歧视、种族歧视、宗教歧视现象，劳动合同签订率为 **100%**。

员工构成



上海杰出工程师（青年）

上海市电力行业协会电力工匠

全国工程勘察设计大师人才库电力勘测设计大师

电力工程行业“最美工程师”

白玉兰人才计划浦江项目

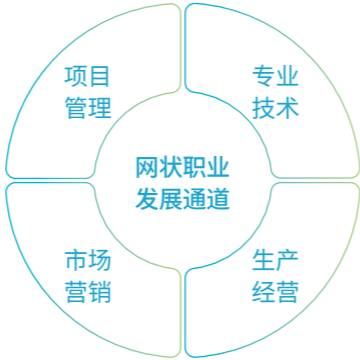


AutoBIM 工作室入围上海市经济和信息化工作系统工会首批“AI+（联合）创新工作室”

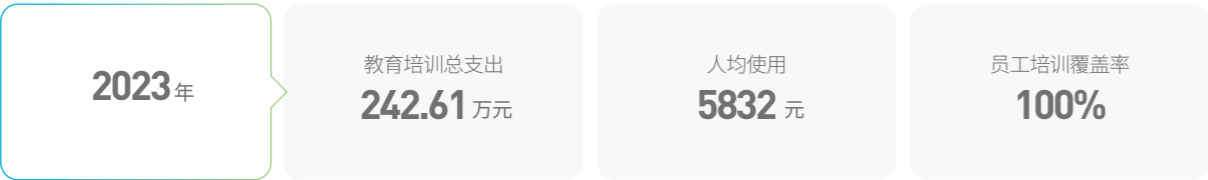
员工成长

科学规划职业发展

建设岗位主发展通道四条，设立职业发展网，每一条通道均制定薪酬制度。建立“四鹰一星”人才培养体系，通过体系化的定向培养使员工成长为适应企业战略需要人才。



培训与教育



雏鹰计划



入职培训



“辰星”后备人员培养计划



职业健康安全

在公司三标整合型管理体系中，环境和职业健康安全管理有效运行，管理活动符合国家法律法规和标准要求。



职业健康安全管理体系认证证书

| 年份   | 员工年度健康体检  | 女职工专项体检 |
|------|-----------|---------|
| 2021 | 82.89 万元  | 5.35 万元 |
| 2022 | 107.47 万元 | 7.32 万元 |
| 2023 | 113.64 万元 | 8.56 万元 |

员工定期健康检查

权益保护

社会保障与保险实施

严格按国家规定为员工缴纳五险一金，购置意外险，员工工作生活更添保障。

上海市职工保障互助会“在职住院基本保障 A0 ”“在职住院加强保障 A3 ”“特种重病加强保障 B2 ” 3 类新险种

《上海市退休职工住院补充医疗互助保障计划》

上海工会会员服务卡基本保障计划

全员意外险覆盖

为员工提供员工宿舍

为应届毕业在沪无固定房产的员工提供环境良好，降低员工生活成本，助力人才发展，将公司对员工关怀延伸至工作 8 小时外。

民主管理

信息公开民主集中管理

坚持信息公开长效机制，涉及员工切身利益的重大问题经由职代会或民主管理综合小组审议，审议过程、意见反馈、执行情况、执行效果等全过程通过相关渠道公开。公司规章制度、重大事项、岗位公式、工会活动等均在门户网站同步公示。探索职工参与民主管理的有效方式，从职工切身利益出发，倾听职工心声，广纳一线建言，扎实做好职工思想工作，传承调研、家访、谈心等传统方式，加强与职工面对面、心贴心的沟通交流。

员工沟通 and 关爱

推进社会主义核心价值体系建设

全面开展精神文明建设工作  
党史学习融入企业推进改革和高质量发展的全过程弘扬爱国主义精神



全国文明单位



第七党支部被评为“上海市经信系统党支部建设示范点”



上海市文明单位



第八党支部京能阿巴嘎旗 20 万千瓦光伏项目部“草原雄鹰党员突击队”

开展“责任讲堂”、“智汇学堂”等形势任务教育、专题党课，树立品牌文化，统一党员群众思想，激发改革创新动力



责任讲堂 智汇学堂



“电力传承”主题党建联建活动



青年网格服务计划

引导员工践行社会主义荣辱观



每年举行“公司日”暨员工运动会



上海红色文化巡礼主题活动



六一亲子活动

着力构建和谐劳动关系



上海市厂务公开民主管理工作先进单位



上海市经信系统和谐劳动关系建设星级示范单位

抓好员工素质工程，提高岗位技能、市场竞争能力

社会参与 and 发展

SOCIAL PARTICIPATION AND DEVELOPMENT

社会责任观

公司以“责任”、“发展”为主线，立足业务特点，构建三个层面管理体系，紧密围绕八大主题，聚焦社会需求，将社会问题转化为发展动力，为社会、政府以及客户提供绿色、安全、高效的电力能源规划和工程咨询、设计及建设总承包全过程服务，持续提高经济、社会、环境综合价值创造能力。

履责核心

八大核心责任主题

|      |      |         |           |
|------|------|---------|-----------|
| 科学发展 | 环保节约 | 诚信和公平运营 | 经济责任和顾客权益 |
| 合作共赢 | 安全生产 | 社会共建    | 员工与和谐劳动关系 |

社会建设

公司倡导“爱心、诚信、平安、和谐”理念，积极发挥企业优势和员工积极性，营造和谐共赢企业氛围，建设和谐文明社区环境。提高政治站位、紧密协调部署、加大帮扶力度，公司以实际行动采办定点扶贫的云南省剑川县和新疆自治区民丰县，通过帮扶活动，激励职工关心公益，增强社会奉献的精神，助力脱贫攻坚。

公司启动新一轮城乡党组织结对帮扶工作，与崇明竖新镇竖南村签订为期 5 年的结对共建协议，围绕党建联学联建、竖南样板路建设、特色果园宣传氛围营造和公益助农销售等 4 个项目开展工作，希望通过发挥企业优势和员工积极性，对内营造和谐共赢企业氛围，对外关注民生和回报社会。



城乡党组织结对帮扶共建修建改造老年活动中心



与崇明竖新镇竖南村签订新一轮城乡结对共建协议

志愿服务

截止 2023 年，开展助残阳光行动主题活动 40 次，参与 340 余人次，党团员参与率≥ 95%，员工覆盖率≥ 58%

| 序号 | 捐助对象                         | 金额(元)  |
|----|------------------------------|--------|
| 1  | 城乡党组织结对帮扶共建                  | 100000 |
| 2  | “蓝天下挚爱”上海慈善基金会捐款             | 35000  |
| 3  | 上海市杨浦区定海社区公益基金会 2023 年公益基金募捐 | 50000  |
| 4  | 定点扶贫                         | 172584 |



# 03

## PROSPECTS FOR RESPONSIBILITY

### 责任展望

未来,上海院将秉承“**诚信担当、开拓创新、共生共赢**”的核心价值观,努力建设绿色高效能源,持续服务智慧城市。

**聚焦高质量发展。**以市场为导向,发展优势,不断提升企业价值创造和效益,以公司战略和企业转型发展为指引,建设适应公司战略发展的全员营销管理体系和机制。

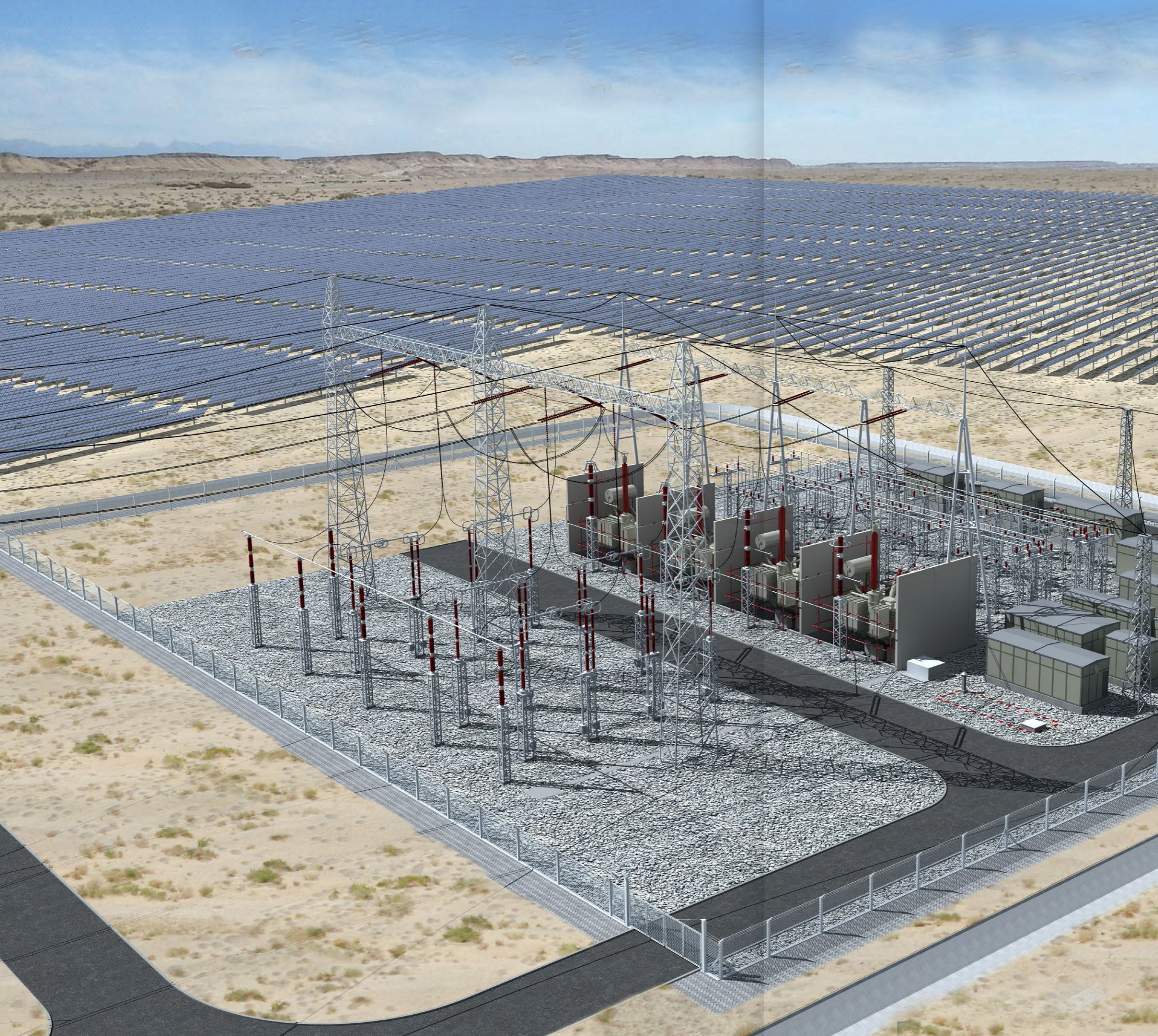
**锻造服务质量品牌。**以加强服务质量、提高管理能力为目标,加强项目社会责任管理工作,提升客户满意度,增强品牌影响力。

**创新驱动行业发展。**不断攀升技术高端,增强公司核心竞争力和发展新动力,加强与政府、高校技术合作,国际技术交流,内部技术论坛建设。

**扩宽人才成长通道。**提升人力资源管理水平,积极探索员工职业发展导向体系。制订和实施适应公司战略发展的人力资源规划。完成适应公司组织机构调整,促进市场拓展、科技发展和服务客户的组织机制。建设并实施员工职业发展导向体系,促进专家型、复合型人才队伍建设。

**打造低碳绿色家园。**倡导员工和相关方开展保护和谐生态系统行动,将节能减排理念融入设计、施工、建造、运行全过程,进一步为推动行业节能减排、生态保护、绿色发展做贡献。

以和谐共赢为落脚点,加强交流沟通,引导相关方参与社会责任实践,积极了解客户及利益相关方期望、诉求,共同构建清洁、环保、节能生态环境,营造良好内外部环境,实现利益各方共同发展。



04

ENGLISH  
VERSION

HONORS  
OVER THE YEARS

- 1997** Recognized as Shanghai Civilized Unit, and continuously awarded as Excellent Company in Shanghai Key Engineering Practical Merit Competition.
- 2003** Shanghai High Tech Enterprise.
- 2012** National Advanced Organization Implementing Customers-satisfied Project.
- 2013** Shanghai Integrity Creation Enterprise, National Quality Award, Excellent Enterprise of China Engineering & Consulting Association (CECA), and Key New Technology Enterprise of the National Torch Plan.
- 2014** Shanghai Factory Affairs Publicity Top 10 Model, Shanghai May Day Labor Award, Shanghai Famous Trademark, and National Power Industry User Satisfaction Service.
- 2015** Shanghai Model Employee Home, Level 1 Enterprise of Power Work Safety Standardization, Shanghai Government Quality Gold Award, and APQO Global Excellence Performance Award.
- 2016** Reviewed and approved for National Quality Award.
- 2017** Shanghai Five -star Integrity Creation Enterprise.
- 2018** Shanghai Mayor's Quality Award.
- 2019** Top 100 Quality Enterprises in Jiangsu, Zhejiang, Anhui, Jiangxi, and Shanghai, National Youth Model Unit, and Central Enterprise Youth Model Unit.
- 2020** National Civilized Unit.
- 2021** National Market Quality Credit AA Users-satisfied Enterprise, Shanghai "Charity Star" Nomination Award, and Outstanding Enterprise in Shanghai Corporate Social Responsibility Report.
- 2022** China's Photovoltaic Storage Charging Demonstration Brand, Local Economic Development Outstanding Enterprise, Top 100 Enterprises in Yangpu District in Shanghai, Youth Development Practice Base of Shanghai University of Electric Power.
- 2023** Shanghai Demonstration Enterprise of Safety Culture, Dual Certification for Compliance Management System, Top Ten Comprehensive Energy Service Providers in China's Energy Storage Industry, Three-Star Unit for Harmonious Labor Relations, "Home for Employees" by the Shanghai Economic and Informatization Commission.

Flashback of Social  
Responsibility Events

2012

Since 2012, the Company has obtained the third-party evaluation certificate from Shanghai Quality System Audit Center every year, and the certificate was issued by Shanghai Federation of Economic Organizations and Shanghai Federation of Industrial Economics at the "Shanghai Corporate Social Responsibility Report Conference".



2013

Released the report at Shanghai Corporate Social Responsibility Report Conference for the first time.



2014

"GALAXY Gold Award" in the 26th Annual Excellent Product and Service Marketing International Appraisal.



2015

The Company leader was invited to attend the Shanghai Corporate Social Responsibility Report Conference.



2016

The Company leader was invited to speak at the 5th Shanghai Corporate Social Responsibility Report Conference.



The 5th "Charity Star" Excellent Collective in Yangpu District, Shanghai.

2017

Shanghai Corporate Social Responsibility Report Conference issued certificates for the Company for five years in a row.



2018

Shanghai Corporate Social Responsibility Report Conference "Overseas Development Award".



First Prize of "Collection and Selection of Excellent Cases of Social Responsibility" of PowerChina Enrolled in the publication Excellent Case Collection of Social Responsibility-Building a Responsible Brand and Telling the Story of PowerChina.

2019



Outstanding Collective in Blood Donation Assessment of Shanghai Blood Administration Office.

2021

Outstanding Enterprise of Shanghai Corporate Social Responsibility Report Conference.



Nomination Award at the 10th Shanghai Charity Star.



2022

4th Urban-Rural Co-construction Project.



China Power 2022 Outstanding Case of Social Responsibility Management.



2023

2013-2022 Social Responsibility Report Release Certificate, "Green Development Enterprise" by Shanghai Federation of Economic Organizations & Shanghai Federation of Economics.



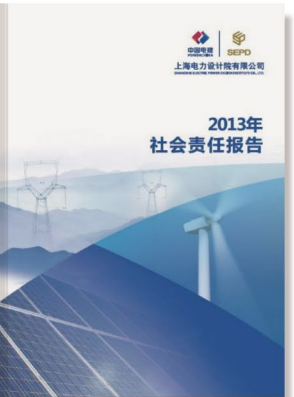
5th Urban-Rural Co-construction Project.

2023 Best ESG Case Study of Shanghai Quality Association.

12-Year Milestone of  
Social Responsibility (2012-2024)



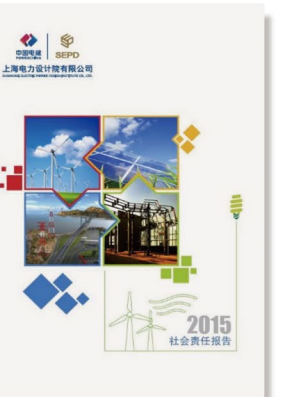
2012



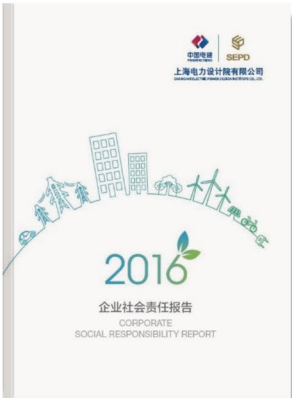
2013



2014



2015



2016



2017



2018



2019



2020



2021



2022



2023

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## About Us

POWERCHINA Shanghai Electric Power Engineering Co., Ltd. (SEPD, English name: POWERCHINA Shanghai Electric Power Engineering Co., Ltd., hereinafter referred to as "the Company") is a holding subsidiary of Power Construction Corporation of China.

The Company has Grade A for power survey and design, Grade A for geotechnical survey and design, Grade A for supervision, Grade II for general contracting of power engineering construction, Grade B for municipal heating, and Grade B for construction engineering. As a technology-based energy engineering consulting firm, the Company mainly concentrates on providing consultation, design and general contracting, and related services for electric power engineering construction. The Company operates in 31 provinces, cities, and autonomous regions throughout China, and develops business across many countries in Asia, Europe, America, Africa, etc.

The Company has won honors such as the Shanghai Mayor Quality Award, the International Asia Pacific Quality Award, the National Quality Award, and the National Civilized Unit, and has been awarded the title of "Shanghai High Tech Enterprise" for 20 consecutive years. In 2023, the Company obtained the double certification of the compliance management system and was rated as the Demonstration Enterprise of Safety Culture Construction in Shanghai. The Zhangjiakou-Beijing Renewable Energy Comprehensive Application Demonstration Project won the National Quality Engineering Gold Award and was rated as the Outstanding Enterprise of the Shanghai Corporate Social Responsibility Report Conference.

In 2023, the Company compiled 10 national standards, 43 industrial & association standards, and 7 local standards; it has been granted 23 patents and 5 software copyrights, and won 14 excellent design awards at the provincial and ministerial level, 10 group-level engineering design awards, 3 engineering survey awards at the provincial and ministerial level, 1 outstanding computer software award at the provincial and ministerial level, 2 science and technology progress awards at the provincial and ministerial level, 5 group-level science and technology progress awards, and 2 prefecture/city/hall/-bureau-level science and technology progress awards. While achieving high-quality development, SEPD actively fulfilled its social responsibilities, and adhered to the corporate philosophy of "WE DO IT BETTER", by not only maintaining favorable profits in terms of economic performance, but also attaching great importance to social and ecological benefits by implementing a number of influential branding projects, e.g., "Photovoltaic Leader", "New Energy Leader" and "Green and Smart Energy".

### National Wind/Photovoltaic/Energy Storage and Transmission Demonstration Project

The world's largest renewable energy comprehensive utilization project at that time, integrating wind power, photovoltaic power, energy storage and smart transmission.



### Transmission Line Project of 110 kV Step-down Station in Yangshan DeepWater Port

Project of the world's longest high-voltage cable crossing the bridge at that time.



500kV HONGYANG Underground Substation

The world’s first 500 kV substation project integrated with office buildings.



Solar Photovoltaic Power Generation Project of Shanghai Hongqiao Station of Beijing-Shanghai Express Railway

Asian largest BIPV (Building Integrated Photovoltaics) power generation project.



Solar Power Generation Demonstration Project of China Pavilion and Theme Pavilion of Shanghai World Expo Site

A solar photovoltaic power plant integrated with the China Pavilion and Theme Pavilion of the World Expo.



Shanghai Central 110 kV Substation EPC Project

China’s top highrise, the key municipal project of Shanghai.



Transmission Line Project of 500 kV WORLD EXPO Substation and Transmission Line Project of 500 kV HONGYANG Substation

China’s two longest 500 kV tunnel cable line projects.



Solar Photovoltaic Demonstration Project of Chongming Qianwei Village

China’s first megawatt-class photovoltaic power generation project with grid-connected energy sale put into commercial operation.



Zhangjiakou Beijing Renewable Energy Comprehensive Application Demonstration Project

It won the National Quality Engineering Gold Award for the 2022-2023 year and became the first million-kilowatt onshore wind power project in China to receive this award, providing clean, efficient, and green energy for the Winter Olympics.



The 200,000 kW Photovoltaic Project in Abaga Banner of Jingneng Chagan Nur Power Plant Wind-Photovoltaic-Thermal-Storage-Hydrogen Demonstration Project

The total installed capacity of the project is 203.13 MWp, which is an environmentally friendly, low-energy, and resource-saving photovoltaic power generation project.



National Advanced Technology Photovoltaic Demonstration Base in Shanxi Datong Coal Mining Subsidence Area

China’s first “Photovoltaic Product Top-Runner Certification Scheme” project.



220kV Chongming Interconnection Project

The bridge and tunnel integrated project with the world’s longest high-voltage cable.



Huaneng UK 99.8 MW Battery Energy Storage Station Engineering Survey and Design Project

The largest energy storage power station in the United Kingdom and even Europe, the pioneering power technology project in London.



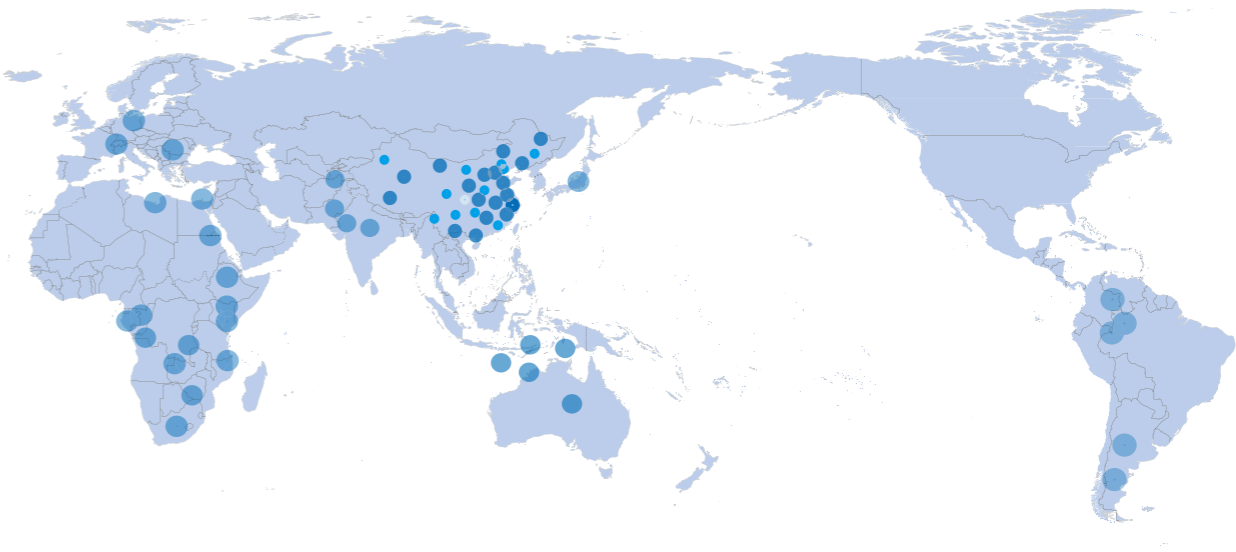
# Organization

## Business Segments



| Core Sectors     | Development Sectors        | Digitalization+           | Investment, Construction, Operation (Transformation) |
|------------------|----------------------------|---------------------------|--|
| Urban Power Grid | Integrated Energy          | Business Digitalization   | New Energy   |
|                  | Intelligent Communications |                           |  |
|                  | Green Buildings            | Management Digitalization | Comprehensive Energy Conservation                    |
| Clean Energy     | Hydrogen Energy            |                           |  |
|                  | Offshore Clean Energy      | Digitalized Business      | Charging Infrastructure                              |
|                  | Underground Space          |                           |  |

## Business Distribution



In 2023, the Company's business market covered 31 provinces, municipalities, and autonomous regions across the country, as well as 38 countries.

| 19 Main business area     |                |                    |                |
|---------------------------|----------------|--------------------|----------------|
| • Shanghai                | • Shanxi       | • Heilongjiang     | • Tibet        |
| • Jiangsu                 | • Shandong     | • Shaanxi          | • Jiangxi      |
| • Zhejiang                | • Qinghai      | • Guangdong        | • Hube         |
| • Inner Mongolia          | • Gansu        | • Guangxi          | • Tianjin      |
| • Hebei                   | • Liaoning     | • Anhui            |                |
| 12 Business covering area |                |                    |                |
| • Beijing                 | • Henan        | • Chongqing        | • Guizhou      |
| • Sichuan                 | • Ningxia      | • Xinjiang         | • Hainan       |
| • Yunnan                  | • Fujian       | • Jilin            | • Hunan        |
| 38 Across the globe       |                |                    |                |
| • The United Kingdom      | • Philippines  | • South Sudan      | • Australia    |
| • France                  | • Guam         | • Gabon            | • Dominica     |
| • Malta                   | • Indonesia    | • Uganda           | • Argentina    |
| • Turkey                  | • Singapore    | • Kenya            | • Venezuela    |
| • Japan                   | • Saudi Arabia | • Congo (Kinshasa) | • Colombia     |
| • Kyrgyzstan              | • Kuwait       | • Rwanda           | • Chile        |
| • Pakistan                | • Egypt        | • Mozambique       | • South Africa |
| • India                   | • Ethiopia     | • Malawi           | • Eritrea      |
| • Myanmar                 | • Nigeria      | • Zimbabwe         |                |
| • Laos                    | • Ghana        | • Zambia           |                |

# Strategic Management

The Company issued the "14th Five-Year Plan" strategy, upgraded the brand-new mission, vision, values and strategic positioning, clarified the overall strategy of "focusing on the two business areas of "energy" and "city", and deeply implementing the key strategies of "digitization", "diversification", "integration", "leanness" and "platformization", and drew up the strategic objectives, development ideas and implementation steps in the new period and new stage.

## STRATEGIC POSITIONING



As an innovation leader in the field of green energy development and an important participant in the field of smart city construction, the Company provides customers with intelligent comprehensive solutions.

## STRATEGIC OBJECTIVE



By the end of the 14th Five-Year Plan, the Company has developed into a leading enterprise with first-class system integration solution capability, significant digital innovation drive, obvious resource integration advantages, coordinated development of multiple business sectors, lean and efficient operation and management, and the highest quality development characteristics in the industry. It entered ENR China's top 60 engineering design enterprises and Top 80 engineering contractors.

## DEVELOPMENT IDEAS



The overall strategy of "focusing on the two business areas of "energy" and "city", and deeply implementing the key strategies of "digitization", "diversification", "integration", "leanness" and "platformization".

## CORPORATE CULTURE



- Mission**  
Building green and efficient energy; Serving low carbon smart city.
- Vision**  
First class scientific and technological engineering consulting company in the field of green energy and smart city.
- Value**  
Honesty, innovation, coexistence and win-win.
- Enterprise Spirit**  
High quality, excellent design, first-rate service.
- Corporate Philosophy**  
WE DO IT BETTER.

# Corporate Responsibility Practice and Performance

## Scientific Development

### Main technologies

#### Internationally leading

- 1. Design and research of structures and foundations of 200 m-level heat absorption towers.
- 2. Key technology and application for the construction of UHV underground substations with superstructures in dense urban areas.
- 3. Technology research and application of the design for wind and solar energy storage power station systems.
- 4. Key technologies and applications for the joint construction of 500 kV underground substations and non-residential buildings in complex environments.
- 5. Planning and design technology for high permeability distributed renewable energy power generation clusters.
- 6. Research on the application technology of high-temperature superconducting cables in power systems.
- 7. Research on the planning technology of multi-energy collaborative integrated source systems centered on electricity.
- 8. Key technologies of intelligent distributed microgrid energy supply systems.
- 9. Key technology research on platform-based DC block for accommodating diversified facilities of photovoltaic storage and charging.
- 10. Technology stack of a new power communication system integrated with 5G communication in the context of a new-type power system for urban power grid in all scenarios.

#### Internationally advanced

- 1. Key technologies and applications for the construction and efficient operation of large-capacity smart wind farm clusters in complex environments.
- 2. Research on reliable calculation methods and commercial software development for active distribution networks.
- 3. Computer software for the SEPD Web Search System.
- 4. Research on the engineering practicality of multi-energy storage technologies under the smart power grid.
- 5. Research on key technologies of smart distribution networks.

#### Domestically leading

- 1. Research on the engineering technology for multi-scenario construction of urban substations under the new infrastructure of power grids.
- 2. Research and application of key technologies for knowledge management in electric power design enterprises.
- 3. Key technologies and applications for the green construction of steel structure substations.
- 4. Computer software for SEPD Engineering Cost Information Platform.
- 5. Research on the design technology of complementary PV power stations for agriculture and fishing.
- 6. Key technologies for the design of solar and thermal power plants.
- 7. Research on the allocation of industry quotas and the strategy of carbon reduction cost sharing in adapting to the collaborative development of the "electricity-carbon" market.

In 2023, the Company has been awarded the title of "Shanghai High Tech Enterprise" for 20 consecutive years. It has 3 key projects under research of Science and Technology Commission of Shanghai Municipality, 1 major special project and 4 key projects of PowerChina; 1 key project of PowerChina has been approved; 2 internationally leading achievements and 1 domestically leading achievement have been identified. Furthermore, in 2023, the Company won 2 science and technology progress awards at the provincial and ministerial level, 5 group-level science and technology progress awards, and 2 prefecture/city/hall/bureau-level science and technology progress awards. The Company has been granted 23 patents, including 14 inventions and 9 utility models; 58 patents have been applied for, including 46 inventions and 12 utility models; 5 software copyrights have been obtained; 67 papers have been published (1 SCI paper, 18 EI papers, and 6 papers published by Peking University Core Journals), and 2 proprietary technologies have been obtained; a total of 72 standards have been compiled. Among them, 2 national standards, namely Guide for Post Evaluation of Electrochemical Energy Storage Station and Technical Requirement for Tracking System of PV Power Station, have been issued; the approval work of 5 national standards and 7 industry standards, including Code for Design of Electric Vehicle Charging Station, Code for Design of Electric Vehicle Battery-swap Station, Project Code for Transmission Engineering, Project Code for Solar Power Engineering, and Technical Rule for Electrochemical Energy Storage System Connected to Power Grid, has been completed.



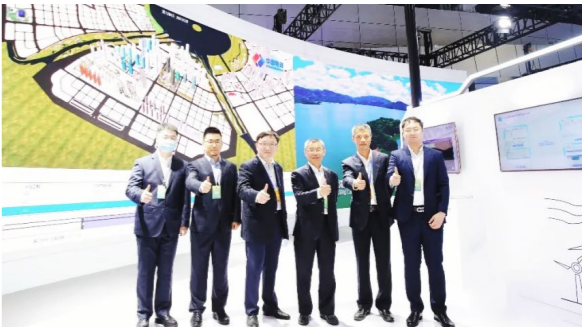
SEPD participated in the 23rd China International Industry Fair



SEPD participated in the 16th SNEC International Photovoltaic Power Generation and Smart Energy Conference



SEPD participated in the first Shanghai International Carbon Neutrality Expo



The 4th Digital China Construction Achievement Exhibition



Certificate of Shanghai High Tech Enterprise

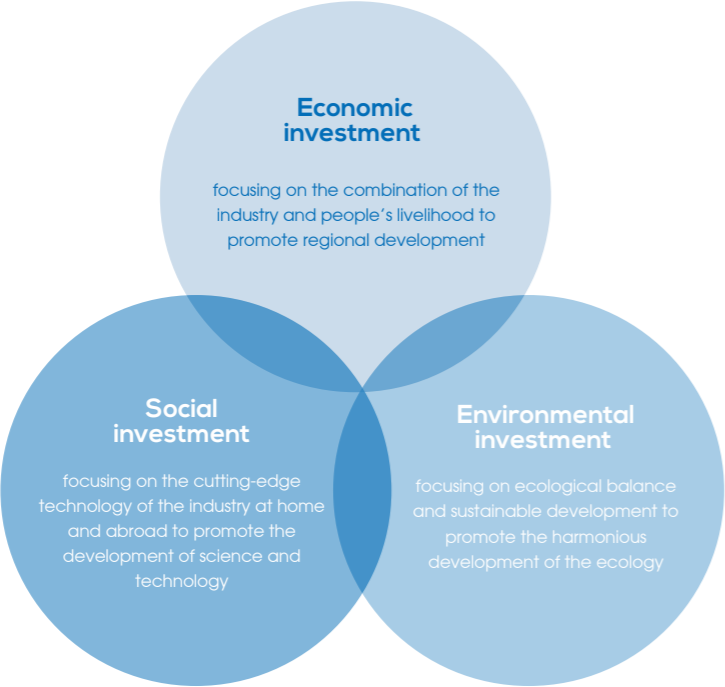


First Prize of Shanghai Science and Technology Award



Cost Information Platform (PCM)

Development Investment



Good Faith and Fair Operation

The Company pays attention to contract management, and Contract Management Measures covers the whole process, combined with comprehensive management and control of information system.

The contract performance rate is 100%.



Contract Abiding and Credit Respecting Enterprise in Shanghai



Contract Credit Rating: AAA



Enterprise Credit Rating of China Electric Power Planning & Engineering Association: AAA



Enterprise Credit Rating of China Electricity Council: AAA

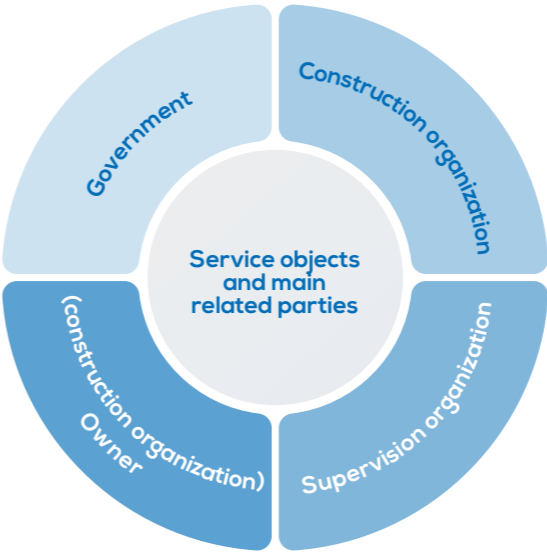


National Market Quality Credit AA Customer Satisfaction Enterprise



Dual Standard Certification for Compliance Management System

Sound Customer Complaint System



Financial Management Standards

Strengthen the establishment of rules and regulations, consolidate the accounting foundation, and improve the financial internal control management.

Focus on the integration of industry and finance, improve the information system, and improve the efficiency of financial management.

Strengthen budget management, focus on process control, and ensure the implementation of the company's goals.

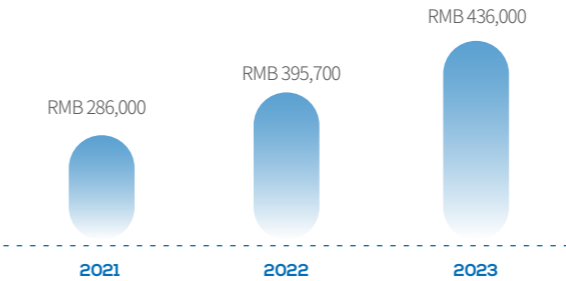
Innovate the financing management, guarantee the capital demand and improve the efficiency of capital use.

Respect for Property Right

Intellectual property protection

Avoid infringement effectively, evaluate the validity of property rights regularly, and conduct intellectual property literature retrieval and "three nature review" (novelty, creativity and practicability) by professional lawyers. For jointly owned property rights, strictly abide by relevant contracts and national laws and regulations, and safeguard the rights and interests of enterprises and stakeholders. Formulate relevant policies and regulations on intellectual property rights in the Measures for the Administration of Intellectual Property Rights, the Measures for the Award of Scientific and Technological Achievements, and the Measures for the Administration of Scientific and Technological Papers.

Intellectual property rights maintenance cost



Promote the Sound and Sustainable Development of the Industry

The Company carries out design consulting activities according to relevant industry standards and specifications, and actively participates in the compilation of relevant specifications according to more than 500 referenced standards and specifications, so as to promote the further development of industry standards. In 2023, it participated in the formulation of more than 70 national, industrial and local standards and specifications.

Participating in the formulation of industry standards and specifications in 2023

| No.   | Standard Name  | Nature        | Editor-in-chief or Co-editor |
|-------|--|---------------|------------------------------|
| 1.    | IEC TR 62933-3-200 ED1 «Electrical Energy Storage(EES) System –Part 3-200: Design principles of electrochemical based EES systems»               | International | Editor-in-chief              |
| 2.    | Electrical Energy Storage(EES) System-Part 3-1: Planning and performance assessment of electrical energy storage systems - General specification | International | Co-editor                    |
| 3.    | Guide for environmental impact assessment of electrochemical energy storage station  | National      | Editor-in-chief              |
| 4.    | Terminology of electrical energy storage system  | National      | Co-editor                    |
| 5.    | Code for design of electric vehicle charging station   | National      | Co-editor                    |
| 6.    | Code for design of electric vehicle battery-swap station   | National      | Co-editor                    |
| 7.    | Project code for transmission engineering  | National      | Co-editor                    |
| 8.    | Project code for solar power engineering   | National      | Co-editor                    |
| 9.    | General principles for thermal insulation technique of equipment and pipes   | National      | Co-editor                    |
| 10.   | Technical rule for electrochemical energy storage system connected to power grid   | National      | Co-editor                    |
| 11.   | Sustainable cities and communities — Indicators for resilient cities   | National      | Co-editor                    |
| 12.   | Technical requirement for tracking system of PV power station  | National      | Co-editor                    |
| 13.   | Design code for AC superconducting power cable lines with a voltage of 35 kV and below   | Industrial    | Editor-in-chief              |
| 14.   | Basic terminology of electric energy storage   | Industrial    | Co-editor                    |
| 15.   | Code for planning and design of high permeability distributed renewable energy power generation clusters   | Industrial    | Editor-in-chief              |
| 16.   | Design standards for DC power generation systems of photovoltaic power stations (English)  | Industrial    | Editor-in-chief              |
| 17.   | Design specification for DC distribution stations  | Industrial    | Editor-in-chief              |
| 18.   | Design specification for prefabricated substations in distribution networks  | Industrial    | Editor-in-chief              |
| 19.   | Design specification for flexible support photovoltaic power generation systems  | Industrial    | Editor-in-chief              |
| 20.   | Design specification for household electrochemical energy storage systems  | Industrial    | Editor-in-chief              |
| 21.   | Technical specification for design of bridge laying power cables   | Industrial    | Editor-in-chief              |
| ..... |  |               |                              |

Environmental Protection and Energy Conservation

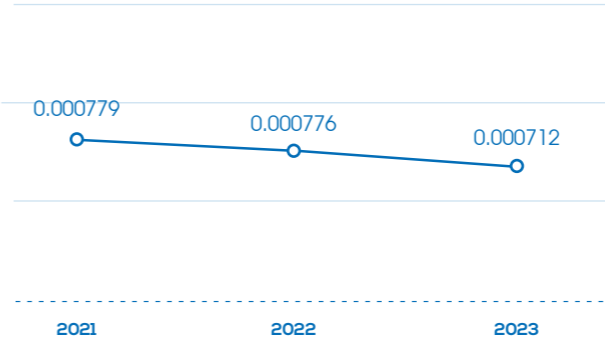


Certified according to the three standards respectively for quality, environment and occupational health management systems.

Performance of Environmental Protection and Governance

Comparison of energy consumption per RMB 10,000 revenue

(unit: T standard coal/RMB 10,000 )



## Green Technology and Production

### Consultation and design

To respond to the requirements of a resource-saving and environmental-friendly society with full consideration of the impact on the environment.

### Project construction

To provide value-added services for environmental protection in strict accordance with the requirements of the environmental protection department.

## Green Engineering

### The Second Batch of National Wind Power and Photovoltaic Base Projects, the Largest Photovoltaic Project under Construction in China

Building complementary power stations for agriculture and animal husbandry, realize "power generation on the panel, breeding under the panel". The photovoltaic base forms a huge "iris" shape through photovoltaic arrays, with significant ecological and landscape effects.



### Huai'an Salt Cavern Compressed Air Energy Storage Power Generation Project (465 MW/2,600 MWh)

The first international 400 MW salt cavern compressed air energy storage demonstration project.



### Xiong'an Dispatching Center Building Near-zero Energy Consumption Building Demonstration Project

One of the two national pilot demonstration projects for new energy and new power systems.



### We deeply participate in the emerging business of national cable tunnels

Covering multiple provinces and regions such as Shanghai, Hangzhou, Xiong'an, Changchun, Ma'anshan, etc.



### The Pilot Project of the Integrated Linkage of Haina Town in the Yangtze River Delta

Certified for three-star green building evaluation and carbon neutrality evaluation.



### SEPD's First Wholly-owned New Energy Power Generation Project

Adopting the construction mode of "complementary agriculture and photovoltaic" to improve the comprehensive utilization efficiency of existing land resources.



### China's First Large-scale "Photovoltaic + Air Film" Power Station

After the project is put into operation, it will not only meet nearly half of the power demand of the terminal, but also is expected to reduce carbon dioxide emissions by 9,500 tons annually.



### The First Photovoltaic Project on the Roof of a Substation in Singapore

Pioneering a new energy model in Singapore, the Energy Market Authority (EMA) of Singapore congratulated on the successful grid connection of the project.

# Work Safety

### Safety Philosophy

Ensure a sound development to build the future together.

### Safety Vision

Build a safety brand to lead the industry.

### Safety Value

Implement responsibility, adhere to protocols, continue to innovate and strive for excellence.

### Safety Mission

Uphold safety standards, enforce safety responsibility and defuse major risks.

## Work Safety Management

### Sound Work Safety Responsibility System

#### Four responsibility systems

Safety administrative management system; safety technical support system; safety supervision and management system; work safety implementation system.

### Work Safety and Occupational Health

The Company has established and improved the work safety system, with 30 existing work safety and occupational health management systems, and constantly improved the duty list of important work safety posts, covering a total of 76 posts at the three levels of the Company, department and project department, which fully reflects the "horizontal and vertical to the end" coverage.

### Enhance the Ability of Prevention and Emergency Response

The Company conducts professional safety education activities, such as fire fighting for escape and evacuation drills, traffic police for new traffic regulations, doctors for health consultation, safety supervision for policy interpretation, etc., to enhance the professionalism and authority of safety education and training.



Special Emergency Drills

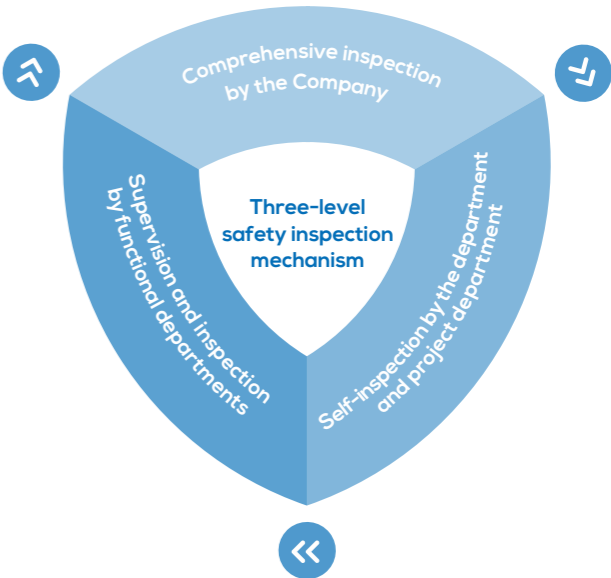


Consultation Day on Work Safety

## Work Safety Inspection

Work safety inspection mechanism

In 2023, the standardized inspection of work safety has been conducted in the form of "2+1", which means two external experts and one full-time safety staff has jointly carried out the inspection. While inspecting and evaluating, the knowledge level of full-time safety staff has been improved. The company-level safety inspection has been conducted 30 times, and the safety inspection coverage rate of the EPC project was 100%.



SEPD's leaders led the team to inspect the EPC project



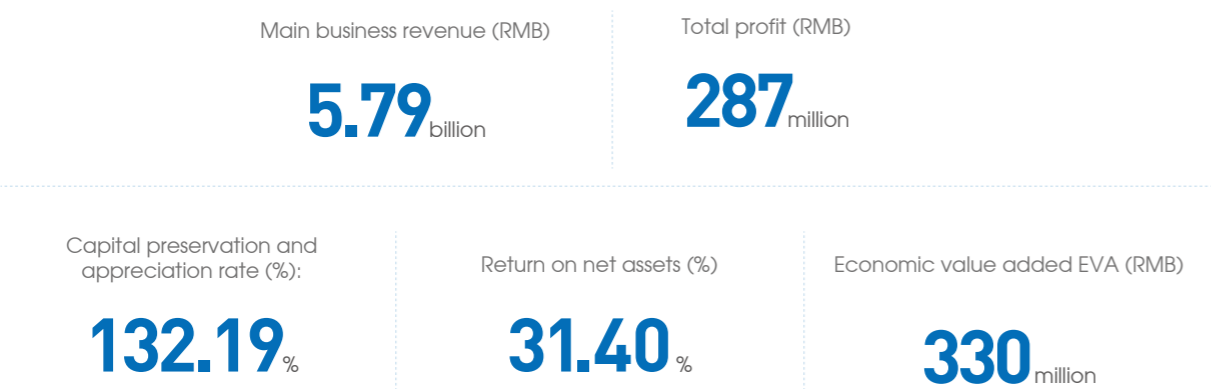
### Handling of Work Safety Accidents

The Company establishes an emergency plan system consisting of **1 comprehensive plan**, **19 special plans** and **5 on-site disposal plans**.

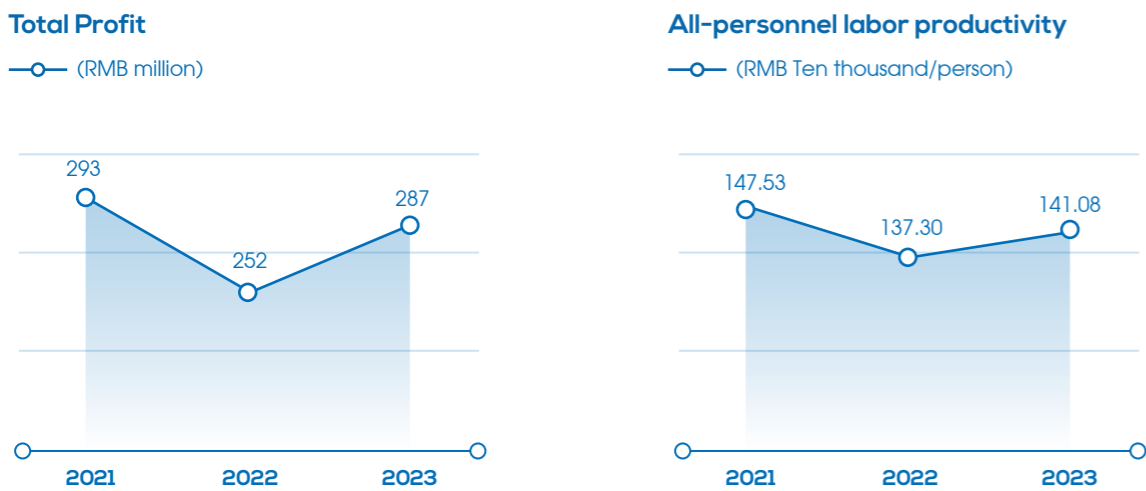


# Economic Responsibility and Customers' Rights and Interests

## Profit and Economic Benefit



## Main Financial Indexes in the Past Three Years



## Products and Services

Establish customer management files.

Encrypt, save and use confidential customer documents.

Physical isolation for Intranet.

Quick response to customers' opinions.

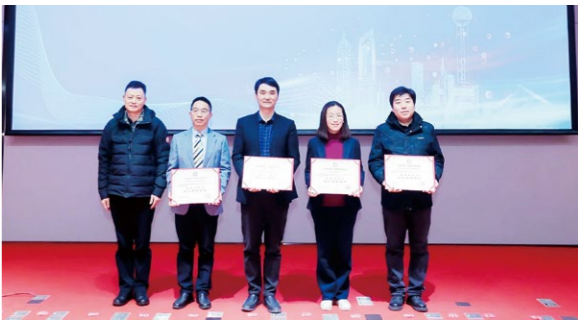
For internal confidential documents, the technology of permission browsing is adopted.

Organize employees to sign confidential contracts at different levels.

Protect customer information security.



Top 50 Cases of Quality Transformation and Innovation by Chief Quality Officers of Enterprises in Jiangsu, Zhejiang, Anhui, Jiangxi, and Shanghai during the National "Quality Month" in 2023



Five-Star Benchmark Enterprise for Customer Satisfaction in Shanghai in 2023

## Responsibility to Supply Chain Partners

### 1

Safeguard the rights and interests of the corporate property owners.

### 2

Comply with the measures for protection of the interests.

### 3

Complete the procurement responsibility system.

### 4

Open the policies and commitments in time.

# Win-win Cooperation

## Serving the National Strategy

Deeply involved in millennium plans and national affairs, SEPD's Smart Platform and Classic Design teams went to Xiong'an New District to carry out in-depth research on power grid planning and technology under the guidance of the high-quality planning concept. The Company has been deeply involved in the planning of great national bases by playing the role of a "planner and leader", and participated in the preparation of the national plan for "three UHV AC projects and nine UHV DC projects" as well as "three areas + one region" large-scale new energy transmission bases. It participated in the preparation of power transmission bases planning for Kubuqi, Ulan Buhe and Tengger deserts in Inner Mongolia as well as Zhangjiakou and Datong, and paved the way for the construction of the second batch of the large new energy bases in China and for the Company's marketing activities in various regions.

The overseas business adheres to the "deep cultivation strategy", achieving breakthroughs in the fields of photovoltaics, energy storage, and power transmission and distribution networks in Australia, establishing stable relationships with multiple customers, signed multiple EPC project contracts, establishing a good reputation. In Singapore, we have collaborated with various government-backed companies and enterprises, successfully fulfilling multiple photovoltaic and substation projects. In the Philippines and the Dominican Republic, we have undertaken significant transmission line and distribution network upgrading projects.



Top 10 Integrated Energy Service Providers in China's Energy Storage Industry in 2023



The first target distribution network double-loop network frame project in Xiong'an New District designed by SEPD was put into operation



Xiong'an New District 110 kV Hexi Station, the first sinking courtyard substation in China designed by SEPD, was put into operation



The first domestic negative carbon building consulting project by SEPD in Xiong'an New District

# Promote Urban Development

## Promote the Optimization and Adjustment of Shanghai's Energy Structure

To promote the development based on the "14th Five-Year Plan", SEPD undertook the research on deep-sea wind power transmission channels entrusted by Shanghai Municipal Development & Reform Commission, and prepared a special report on Shanghai's deep-sea wind power grid-integration, consumption, as well as sea and land channels, which has been highly recognized by Shanghai Municipal Development & Reform Commission and Shanghai Electric Power Co., Ltd., laying a solid foundation for Shanghai to achieve the "Dual Carbon" goals not only during the "14th Five-Year Plan", but also in the medium and long term. Furthermore, these projects have created good economic and social benefits, which not only help to promote the optimization and adjustment of the energy structure in Shanghai, and secure reliable power supply, but also contribute to the development of clean energy resources and the utilization of advantageous resources in Gansu Province.

## Create a "Model" of Shanghai Science and Technology Park

At present, Shanghai is building a global science and technology innovation center, and the new area is one of the three new major tasks assigned to Shanghai by General Secretary Xi Jinping. The Company has established a special task force to provide required services. Miaoxiang 220 kV Power Transmission and Transformation Project, Fengxian Offshore Wind Power Project and other projects were completed and put into operation, adding a wave of strong impetus into the new area.



## Special Study on Comprehensive Energy of Zhangjiang Science City's Spatial Strategic Planning

To build a globally influential source of scientific and technological innovation, an excellent city demonstration area, and promote the transformation of Zhangjiang Science City from "park" to "urban area", the construction management department of Zhangjiang Science City decided to carry out the special research on spatial strategic planning - comprehensive energy of Zhangjiang Science City. Combining with the expansion planning and industrial planning of Zhangjiang Science City and other related requirements, through analyzing the current situation, existing problems and future demand of energy development in Zhangjiang Science City, and based on the concept of comprehensive energy development in Zhangjiang Science City, the overall framework of "13439" comprehensive energy development, including one main line, three stages, four characteristics, three-tier system and nine modules, was creatively put forward.

It gives full play to the functions of the three elements of energy basic support, industrial innovation and urban service, ensures the industrial development of Zhangjiang Science City and the needs of people's life, promotes the intellectual innovation in the energy field of Zhangjiang Science City, and supports the high-quality development of Zhangjiang Science City. It shows a new form of comprehensive energy supply, allocation, consumption and service in the future, which has a good demonstration effect and has a strong macro and micro guiding significance for the coordinated development of comprehensive energy and cities in the future.



## Upgrade the Image of an International Metropolis

Since 2018, the company has participated in the key project of Shanghai "Project to Transform Shanghai's Overhead Lines into Underground Buried Lines", eliminating the "urban spider web" and building the "Internet celebrity check-in road" which integrates health, leisure and historical features. Remodelling the core is like surgery on a beating heart, where tiny parts of the operation will affect the whole.



## Co-create Technological Highland

The Company has undertaken the national key R&D project Modularization Technology and Equipment of New Photovoltaic Medium Voltage Power Generation Unit, Shanghai science and technology project Evaluation of Cable Routing Conditions of Wind Farm in Deep Sea Area and Analysis of Dynamic Submarine Cable Application Environment and Research and Application of Digital Holographic Urban Energy Internet Situation Awareness and Efficient Operation and Maintenance Technology, etc., and has been approved as one major science and technology special project of Power-China, and completed 25 key research special projects. It has established a digital research institute, created a research mode of half-work and half-research, and taken people as oriented to carry out special research work such as Digital Design Research Group, Energy Storage Technology Research Group and Offshore Wind Power Technology Research Group.



SEPD participated in the design of the nation's first competitive offshore wind power project with full capacity grid connection



The first national standard in the field of wind-solar-storage combined power generation in China, Standard for Design of Wind/PV/Storage Power Plant, which was edited by SEPD, was officially released



SEPD's leaders visited State Grid Anhui Electric Power Co., Ltd

## Shanghai Power Grid 35 kV Superconducting Cable Test Demonstration Project

At present, the project is the superconducting cable project with the largest transmission capacity, the longest distance, the largest number of joints, and the only whole-process pipe laying in the world. It is the first demonstration project of 35 kV km high-temperature superconducting cable in China using the second-generation tapes produced in China.

The operation of the project in the central city of Shanghai marked that the world's first superconducting cable supporting the backbone power grid of megacities was officially on the historical stage, which was of great significance to the industrialization of superconducting transmission technology. It plays an important role in urban power grid reconstruction, integrated pipeline underground, narrow corridor trunk power grid, AC/DC interconnection ring network, heavy-load and high-energy power consuming enterprises and other scenes. Its application in power system is helpful to change the ecology of power grid, which is a milestone for the construction of super-safe smart new power grid system and the achievement of double-carbon goal of power grid.



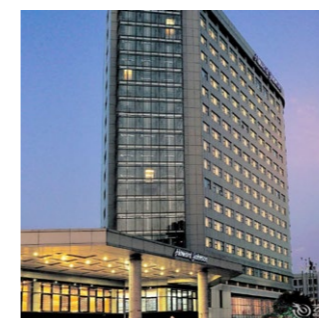
The world's first demonstration project of 35kV km superconducting cable designed by SEPD was officially put into operation

## 300 MW Photovoltaic Power Station Project in Cauchari, Jujuy, Argentina

"Best Practice Case Award for International Cooperation in Energy".

## Consulting Project of Near-zero Energy Consumption of Xiong'an Power Dispatching, Production and Operation Center

SEPD's first full-process consulting business.



## Comprehensive Intelligent Energy-saving Renovation Project of Howard Johnson Caida Plaza Shanghai

The first comprehensive intelligent energy-saving project independently invested, designed, constructed and operated by SEPD.

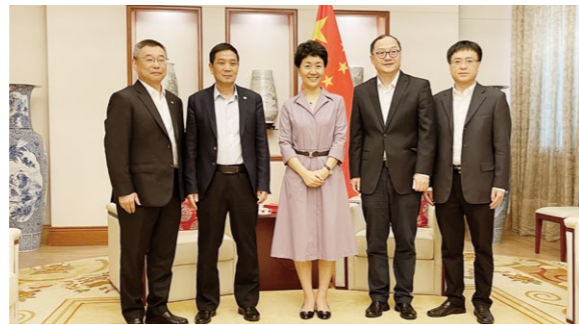


## Wutu Meiren Project

It created a precedent for special train transportation of photovoltaic modules in China.



SEPD's leaders met with Su Yalatu, the secretary of the Urad Front Banner Committee of Bayan Nur City, Inner Mongolia Autonomous Region



SEPD's leaders met with Sun Haiyan, the Chinese ambassador to Singapore



SEPD's leaders met with Zhang Bifen, the Suriname ambassador to China



SEPD's leaders visited the Asia-Pacific regional headquarters of PowerChina



SEPD signed a strategic cooperation agreement with Huawei



The company signed a strategic cooperation agreement with Yushe County Government



Company and Hubei Post and Telecommunication Planning and Design Co. Signed a strategic cooperation agreement



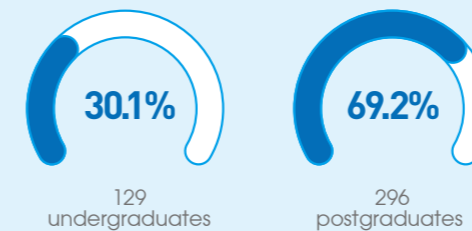
SEPD signed a PV EPC contract with a Singapore energy group

# Employees and Harmonious Labor Relations

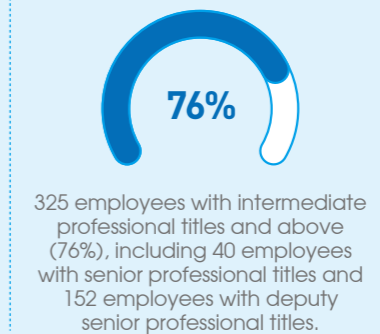
## Composition of Employees

Number of employees: 428

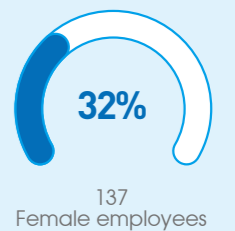
### Education



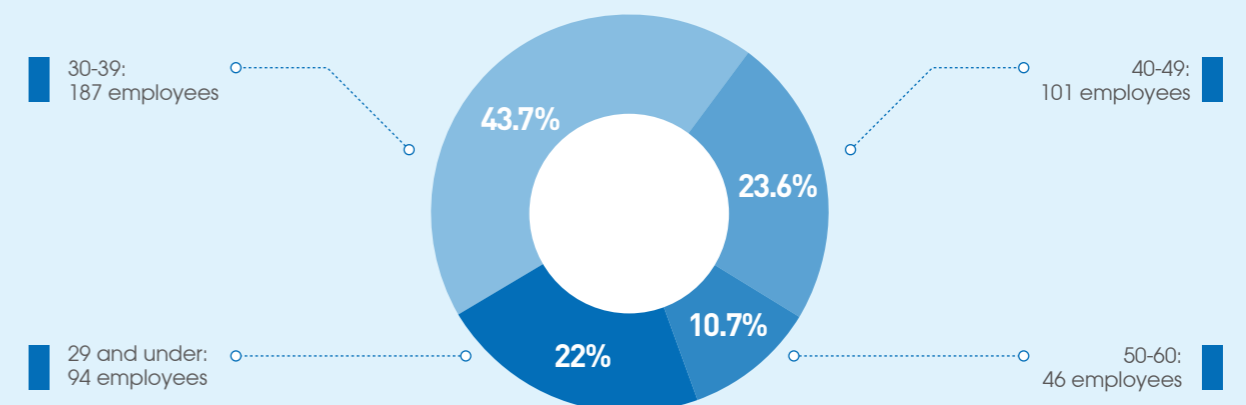
### Professional titles



### Female employees



Average age of employees: 37.3 years old





AutoBIM Studio was selected as one of the first batch of "AI+ (Joint) Innovation Studios" in Shanghai



Employee Training Program



The Company Day – Employees' Sports Meeting



Youth Employee Training Program



Employee Recreation Association



SEPD cared for front-line employees

# Social Participation and Development

## Donation activities

| No. | Donation Program   | Amount (RMB Ten thousand) |
|-----|--|---------------------------|
| 1   | Paired assistance and co-construction of urban and rural Party organizations | 10.0000                   |
| 2   | Donation from Shanghai Charity Foundation for "Love under the Blue Sky"      | 3.5000                    |
| 3   | Yangpu District Dinghai Community Public Welfare Foundation in Shanghai      | 5.0000                    |
| 4   | Targeted poverty alleviation   | 17.2584                   |



SEPD carried out paired assistance and co-construction of urban and rural Party organizations and contributed to the construction of elderly activity centers



SEPD signed a new round of urban-rural partnership agreement with Shunan Village, Shuxin Town, Chongming District



# Prospects for Responsibility

In the future, we will adhere to the core values of "honesty, innovation, coexistence and win-win", strive to build green and efficient energy and continue to serve smart cities.

**We will focus on high-quality development.** Guided by the market, we will further develop our advantages, continuously improve our corporate value creation and efficiency; and guided by our corporate strategy and transformation and development, we will build a comprehensive marketing management system and mechanism adapting to our strategic development.

**We will build up our own service quality brands.** With the goal of enhancing service quality and management capabilities, we will strengthen project social responsibility management, increase our customer satisfaction, and enhance brand influence as well.

**Innovation is the driving force of industry development.** We will continuously go toward the high-end technology, enhance our core competitiveness and new development momentum, strengthen our technical cooperation with the government and universities and colleges, and promote international technical exchanges, and the construction of internal technical forums.

**We will expand the channels for talent growth.** We will improve our human resource management and actively explore a career development oriented system for employees. Besides, we will develop and implement human resource planning that adapts to our strategic development. We will complete the organizational mechanism to adapt to our organizational structure adjustment, promote market expansion, technological development, and serve customers. Furthermore, we will establish and implement a career development oriented system for employees and promote the construction of expert and composite talent teams.

**We will create a low-carbon and green home.** We will advocate employees and relevant parties to take actions to protect our harmonious ecosystem, integrate energy conservation and emission reduction concepts into the entire process of design, construction, buildup and operation, and further contribute to promoting energy conservation and emission reduction, ecological protection, and green development in the industry. Taking harmony and win-win as the foothold, we will strengthen exchanges and communications, guide relevant parties to participate in social responsibility practice, actively understand the expectations and demands of customers and stakeholders, jointly build a clean, environment-friendly and energy-saving ecological environment and create good internal and external environments to achieve common development among all stakeholders.