



2025

环境、社会及治理 (ESG) 报告

国家电投集团产融控股股份有限公司
Environmental, Social and Governance (ESG) Report

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关于本报告

报告范围

本报告以年末产权口径披露信息，覆盖国家电投集团产融控股股份有限公司合并报表范围内的核心运营主体。主要包括国电投核能有限公司和东方绿色能源(河北)有限公司。其中国电投核能有限公司包括：

山东核电有限公司；

国电投莱阳核能有限公司；

国电投核电技术服务有限公司；

电投核能（威海市文登区）能源有限公司；

国电投（合浦）核电有限公司（本次报告暂未合并此数据）；

报告旨在系统呈现国家电投集团产融控股股份有限公司整体在报告期内履行社会责任的承诺、行动与成效。

说明：报告期内，公司进行重大资产重组，通过资产置换及发行股份购买资产的方式，置出资本控股 100% 股权，置入电投核能 100% 股权，标的资产已于 2025 年 12 月 31 日完成过户。本次重组推动公司主营业务发生重大转变，从原有能源与金融协同的业务格局，转变为以核能发电及核能综合利用为核心，同步保留非核能源业务的全新业务体系，重组完成后，公司成为国家电力投资集团有限公司核能发电业务唯一的资产整合与上市平台。即本报告披露范围以年末并表的“国电投核能有限公司和东方绿色能源（河北）有限公司”为边界。

称谓说明

为便于表述，本报告内“国家电力投资集团有限公司”将以“国家电投”“集团”“集团公司”指代；“国家电投集团产融控股股份有限公司”简称“电投产融”“公司”；“国电投核能有限公司”简称“电投核能”；“山东核电有限公司”简称“山东核电”；“国电投莱阳核能有限公司”简称“国核莱阳”；“国电投（合浦）核电有限公司”简称“合浦核电”。需要说明的是，山东核电有限公司系海阳核电项目的业主单位。

时间范围

报告时间范围为 2025 年 1 月 1 日至 2025 年 12 月 31 日，必要时往前后年度适度延伸。

发布周期

本报告为核电业务及产权单位合并至上市公司平台后的首份 ESG 报告，后续将按年度持续定期发布 ESG 报告。

数据来源

本报告所披露的资料与案例均来自公司内部文件、统计报告或有关公开材料。本公司承诺本报告内容不存在任何虚假记载。

编制依据

- 国务院国有资产监督管理委员会《关于新时代中央企业高标准履行社会责任的指导意见》；
- 《深圳证券交易所上市公司自律监管指引第 17 号——可持续发展报告（试行）》；
- 《深圳证券交易所上市公司自律监管指南第 3 号——可持续发展报告编制》；
- 全球可持续发展标准委员会《GRI 可持续发展报告标准（GRI Standards）》；
- 联合国《2030 年可持续发展议程（SDGs）》等。

报告获取

本报告以纸质版和电子版两种形式发布。如需索要纸质版报告，请致函国家电投集团产融控股股份有限公司。

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意见反馈

您提出的宝贵意见对公司可持续发展工作的稳步推进至关重要。若您对本报告的内容或公司可持续发展相关事宜有任何意见或建议，敬请通过本报告文末《意见反馈表》提供的联系方式进行反馈。

About This Report

Reporting Scope

This report discloses information based on the equity ownership structure as of the end of the reporting year, covering the core operating entities within the consolidated reporting scope of *SPIC Industry Finance Holdings Co., Ltd.* The main entities covered include: *SPIC Nuclear Energy Co., Ltd.* and *Dongfang Green Energy (Hebei) Co., Ltd.*

Among them, SPIC Nuclear Energy Co., Ltd. includes the following companies:

Shandong Nuclear Power Company Ltd.

SPIC Laiyang Nuclear Energy Co., Ltd.

SPIC Nuclear Technology Services Co., Ltd.

SPIC NE (Wendeng District, Weihai City) Energy Co., Ltd.

SPIC (Hepu) Nuclear Power Co., Ltd. (Its data has not been consolidated in this report)

This report presents a comprehensive and systematic overview of the social responsibility commitments, initiatives and achievements of SPIC Industry-Finance Holdings Co., Ltd. during the reporting period.

Note: During the reporting period, the Company carried out a significant asset restructuring. Through asset replacement and the issuance of shares to acquire assets, it divested 100% equity of State Power Investment Group Capital Holding Co., Ltd. and acquired 100% equity of State Power Investment Nuclear Energy Co., Ltd. The transfer of the subject assets was completed on December 31, 2025. This restructuring drove a major transformation in the Company's core business—shifting from its previous business structure of synergy between energy and finance to a new business system centered on nuclear power generation and comprehensive nuclear energy utilization, while retaining non-nuclear energy businesses. Following the completion of the restructuring, the Company has become the sole asset integration and listing platform for the nuclear power generation business of State Power Investment Group Co., Ltd. Accordingly, the reporting boundary of this report is defined by the entities consolidated as at the end of the reporting period, namely State Power Investment Corporation Nuclear Energy Co., Ltd. and Dongfang Green Energy (Hebei) Co., Ltd.

Terminology Notes

For ease of expression, the following abbreviations and references are used throughout this report: "State Power Investment Corporation Limited" is referred to as "SPIC", or "the Group". "SPIC Industry-Finance Holdings Co., Ltd." is referred to as "SPICIFH", "the Company" or "we". SPIC Nuclear Energy Co., Ltd. is referred to as "SPIC NE". "Shandong Nuclear Power Company Ltd." is referred to as "SDNPC". "SPIC Laiyang Nuclear Energy Co., Ltd." is referred to as "SPIC Laiyang". "SPIC (Hepu) Nuclear Power Co., Ltd." is referred to as "NPNP". In addition, Shandong Nuclear Power Company Ltd. is the project owner of the Haiyang Nuclear Power Project.

Reporting Period

The reporting period spans from January 1 to December 31, 2025. Where appropriate for contextual clarity, the report also incorporates relevant data from preceding or subsequent periods.

Release Cycle

This marks the Company's inaugural ESG report following the restructuring of its nuclear power operations and equity entities. Moving forward, the Company is committed to publishing this report annually.

Data Sources

The information and cases disclosed in this report are all sourced from internal company documents, statistical reports, or relevant public materials. The Company assures that the report is free of false records.

Preparation Principles

- Guidelines to the State-owned Enterprises Directly under the Central Government on Fulfilling Corporate Social Responsibilities with High Standards in the New Era released by the State-owned Assets Supervision and Administration Commission of the State Council (SASAC)
- Self-Regulatory Guidelines No. 17 for Companies Listed on Shenzhen Stock Exchange—Sustainability Report (For Trial Implementation)
- Self-Regulatory Guidance No. 3 for Companies Listed on Shenzhen Stock Exchange—Preparation of Sustainability Report
- GRI Sustainability Reporting Standards (GRI Standards) issued by the Global Sustainability Standards Board (GSSB)
- The 2030 Agenda for Sustainable Development issued by the UN

Report Access

This report is available in both print and digital formats. If you need printed copies, please send a letter to SPIC Industry-Finance Holdings Co., Ltd.

Address: Nuclear Power Training Base, No. 15, Gangcheng East Street, High-tech Industrial Development Zone, Yantai City, Shandong Province
Tel: 0535-3877918

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Feedback

Your valuable feedback is crucial to the steady progress of our sustainability efforts. If you have any comments or suggestions regarding this report or our sustainability practices, please share them via the contact information provided in the *Feedback Sheet* at the end of this report.

董事长致辞

Message from the Chairman



日月其迈，时盛岁新。在此，我谨代表董事会，向长期以来关心、支持公司发展的各级领导、合作伙伴、投资者、社会各界朋友及全体员工，致以诚挚的感谢！

2025年，是新中国历史进程中承前启后的关键之年，也是国家电投集团向着世界一流清洁能源企业目标奋进的重要一年。作为集团核能及核能综合利用项目的投资建设运营平台，始终心怀“国之大者”，以引领核电发展、奉献绿色能源为己任，坚定不移走安全、创新、绿色、开放的高质量发展之路。我们坚持将环境、社会和治理（ESG）理念深度融入企业战略与日常运营，努力实现经济效益、环境效益与社会效益的和谐统一，以实际行动诠释责任与担当。

我们坚守“核”心，筑牢高质量发展根基。公司坚持和加强党的全面领导，将党建优势转化为发展优势、治理效能。我们持续完善中国特色现代企业治理体系，健全董事会运作机制，强化风险防控与合规管理，恪守商业道德，不断提升公司治理的规范性与有效性。2025年，公司资产规模稳步提升，经营业绩稳健增长，科技研发投入持续加大，为长远发展注入了强劲动能。

我们严控“核”安，坚守不可逾越的生命线。安全是核能事业的生命线，更是我们的最高信条。公司始终将核安全、生产安全置于首位，通过完善安全管理体系、强化安全生产投入、提升全员安全素养、深化安全文化建设，全年实现“二级以上核事件0起、一般及以上安全生产事故0起”的目标。我们致力于打造精品工程，以创新驱动技术变革与运营效率提升，构建了覆盖核动力厂全生命周期的安全屏障，确保核能利用绝对安全、万无一失。

我们深耕“核”绿，绘就清洁能源美丽画卷。应对气候变化，发展清洁能源是时代使命。公司积极践行国家“双碳”战略，依托核能这一稳定高效的清洁能源，2025年实现核电发电量202.39亿千瓦时，相当于减排二氧化碳1623.80万吨，为国家能源结构转型和生态文明建设贡献了坚实力量。我们持续加大环保节能投入，严格落实环境风险管理，推动资源能源的集约高效利用，严控污染物排放，并积极倡导绿色理念，以实际行动共绘“核”美蓝图。

我们聚力“核”谐，与社会共享发展成果。企业的价值源于社会，也必将回馈社会。我们坚持以人为本，为4083名员工搭建成长平台，实现培训全覆盖，激发人才创新活力。我们秉持合作共赢理念，携手产业链上下游伙伴，共同构建可持续的产业生态圈。我们积极履行社会责任，投身乡村振兴事业，热心公益慈善，鼓励员工志愿服务，持续开展透明沟通，共建和谐社区。

展望未来，面对能源革命的浪潮与全球可持续发展的共同课题，公司将继续秉承国家电投建设具有全球竞争力的世界一流能源企业愿景，奋力谱写世界一流核能投资建设运营平台高质量发展新篇章。我们将以更高标准深化ESG管理实践，将ESG要求更全面地融入投资决策、运营管理和价值创造全过程，持续提升信息披露透明度与完整性。我们坚信，通过不懈努力，定能实现核能事业的安全、高效、绿色、创新发展，为保障国家能源安全、推动经济社会绿色转型、增进民生福祉作出新的更大贡献！

国家电投集团产融控股股份有限公司董事长：郝宏亮

Time advances steadily, ushering in renewed momentum and new beginnings. On behalf of the Board of Directors, I would like to extend my sincere appreciation to leaders at all levels, partners, investors, members of the public, and all employees who have long supported the Company's development.

The year 2025 marked a pivotal milestone in China's development journey and a critical year for SPIC as it advanced toward its goal of becoming a world-class clean energy enterprise. As an investment, construction and operation platform for nuclear energy projects and its integrated applications, SPICIFH always bears in mind "matters of national significance". We are committed to advancing nuclear power development and delivering green energy, steadfastly pursuing a path of high-quality development defined by safety, innovation, sustainability, and openness. ESG principles have been deeply embedded into our strategy and operations, enabling the coordinated harmony of economic, environmental, and social value, and reflecting our strong sense of responsibility and accountability.

We remain anchored in nuclear-powered governance to reinforce the foundation for high-quality development. We uphold and strengthen the Party leadership, translating Party leadership strengths into development momentum and governance effectiveness. We continue to refine a modern corporate governance system with Chinese characteristics, improve Board operations, and enhance risk control and compliance management, while adhering to the highest standards of business ethics. As a result, the standardization and effectiveness of corporate governance have been continuously strengthened. In 2025, the Company achieved steady growth in asset scale and operating performance, alongside sustained increases in R&D investment, injecting strong momentum into long-term development.

We rigorously safeguard "nuclear safety", the non-negotiable lifeline of our operations. Safety is the foundation of the nuclear industry and our highest priority. We consistently prioritize nuclear and work safety by strengthening safety management systems, increasing work safety-related investment, enhancing workforce safety awareness, and fostering a strong safety culture. Throughout the year, we achieved "zero Level 2 or above nuclear events and zero general or above" work safety accidents. Committed to delivering quality projects and leveraging innovation to drive technological change and enhance operational efficiency, we have established comprehensive safety barriers spanning the entire lifecycle of our nuclear power plants, ensuring that the use of nuclear energy remains completely safe and entirely secure.

We advance green development in "nuclear energy", contributing to a cleaner and more sustainable future. Addressing climate change and developing clean energy are defining imperatives of our time. In line with China's "carbon peaking and carbon neutrality" strategy, we leverage nuclear energy as a stable and efficient clean energy source. In 2025, our nuclear power generation reached 20.239TWh, equivalent to reducing approximately 16.2380 million tons of CO₂ emissions, making a solid contribution to optimizing the national energy structure and advancing ecological civilization. We continue to increase investment in environmental protection and energy efficiency, rigorously implement environmental risk management, promote the efficient use of resources, and strictly control pollutant emissions. Through these efforts, we actively advance green development and translate our commitment into tangible outcomes.

We promote "nuclear harmonious" development and share value with society based on our nuclear power cause. Recognizing that a company's value originates from society, we are committed to giving back. Centered on people, we provide growth platforms for our 4,083 employees, ensuring comprehensive training coverage and stimulating the innovative vitality of talent. Upholding a philosophy of win-win cooperation, we collaborate closely with partners across the industry chain to build a sustainable industrial ecosystem. We are committed to fulfilling our social responsibilities by advancing rural vitalization, engaging in charity initiatives, and encouraging employee volunteering. By maintaining open and transparent communication, we work together with stakeholders to build harmonious communities.

Looking ahead, amid the sweeping energy revolution and the shared global challenge of sustainable development, SPICIFH will continue to uphold the Group's grand vision of "becoming a world-class clean energy enterprise with global competitiveness", while focusing on the strategic goal of "establishing a world-class platform for nuclear energy investment, construction, and operation". We will further elevate our ESG management practices, more comprehensively embedding ESG considerations across investment decisions, operational management, and value creation processes, while continuously enhancing the transparency and completeness of our disclosures. We are confident that, through relentless effort, we will achieve a safe, efficient, green, and innovative development of nuclear energy, making even greater contributions to national energy security, the green transformation of the economy and society, and the well-being of the people.

Hao Hongliang
Chairman of SPIC Industry-Finance Holdings Co., Ltd.

走进电投产融 About SPICIFH

公司简介 Company Profile

国家电投集团产融控股股份有限公司是国家电力投资集团有限公司旗下上市公司，A 股证券简称“电投产融”，证券代码“000958”，前身为国家电投集团东方新能源股份有限公司，成立于 1998 年，1999 年在深圳证券交易所挂牌上市。2025 年 12 月 31 日完成重大资产重组交割，注入电投核能核电资产，交易完成后，成为国家电投集团核能发电业务的唯一资产整合平台，进一步集中核电优质资源，增强专业化运营能力。

核能板块，电投核能是国家电投集团核能发电及核能综合利用项目投资、建设和运营专业化管理平台，主营业务为电力销售业务等。截至 2025 年 12 月底，电投核能控股在运核电机组 2 台、合营在运核电机组 6 台，在运核电机组权益装机规模 743 万千瓦；控股在建机组 4 台，装机规模 500 万千瓦；资产总额 1223.07 亿元。

非核能板块，东方绿色能源（河北）有限公司主营业务包括清洁能源发电及热电联产业务，主要产品为电力及热力。截至 2025 年 6 月底，总装机容量 233.50 万千瓦，资产共计分布在 7 个省、自治区、直辖市。其中火电装机 66.00 万千瓦，新能源装机 167.50 万千瓦，其中风电 118.15 万千瓦，光伏 49.35 万千瓦。

公司将进一步整合核电优质资源，持续提升标准化、专业化、集约化运营能力，充分依托控股股东在核电技术、项目储备及产业链协同等方面的综合优势，不断夯实上市公司长期稳健发展根基，全面提升核心竞争力与行业影响力。随着核电行业政策环境持续优化、产业发展基础日益坚实，上市公司将立足新的业务定位，在清洁低碳能源领域奋力实现更高质量、更可持续的发展。

企业愿景 Our Vision

公司秉承国家电投建设具有全球竞争力的世界一流清洁能源企业愿景，致力于建设世界一流核能投资建设运营平台。

SPIC Industry-Finance Holdings Co., Ltd. (A-share: SPICIFH, Stock Code: 000958) is a listed subsidiary of State Power Investment Corporation Limited (SPIC). Established in 1998 and listed on the Shenzhen Stock Exchange in 1999, the Company was formerly known as SPIC Dongfang New Energy Co., Ltd. On December 31, 2025, SPICIFH completed a major asset restructuring, incorporating SPIC Nuclear Energy's nuclear power assets. Following the completion of this transaction, SPICIFH became the sole platform for integrating the Group's nuclear power generation assets, further consolidating high-quality nuclear power resources and enhancing specialized operational capabilities

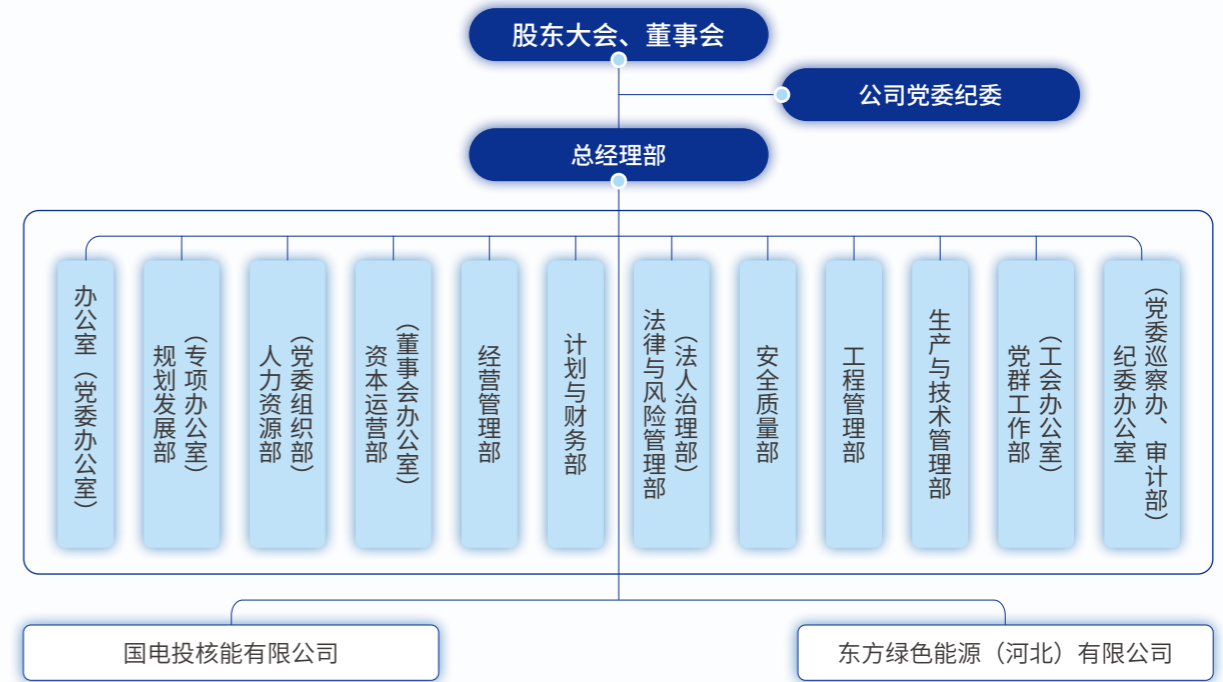
In terms of the nuclear energy segment, SPIC Nuclear Energy serves as SPIC's specialized platform for the development, investment, construction, and operation of nuclear energy and its comprehensive utilization projects, with electricity sales as its core business. As of the end of December 2025, SPIC Nuclear held controlling stakes in 2 operational nuclear power units and joint venture interests in 6 operational units, with total equity-installed capacity of 7.43GW. It also held controlling stakes in 4 units under construction, with a combined installed capacity of 5 GW. The total assets amounted to 122.307 billion yuan.

In terms of the non-nuclear energy segment, Dongfang Green Energy (Hebei) Co., Ltd. primarily operates clean energy power generation and nuclear cogeneration, with electricity and heat as its main products. As of June 2025, the Company's total installed capacity reached 2.3350GW, with assets distributed across seven provinces, autonomous regions, and municipalities. Of this, thermal power accounts for 0.6600GW, and renewable energy accounts for about 1.6750GW, including 1.1815GW of wind power and 0.4935GW of solar power.

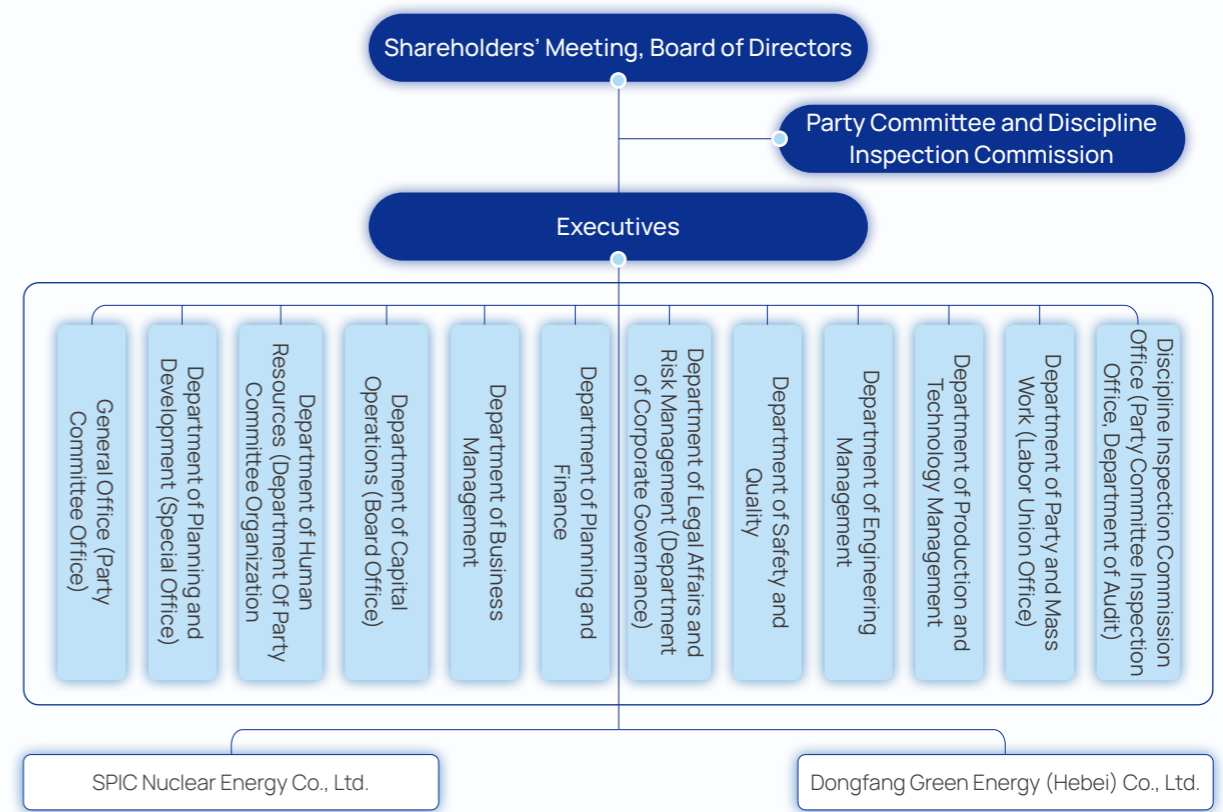
SPICIFH will further integrate high-quality nuclear power resources and continuously enhance its standardization, specialization and intensification. By fully leveraging the controlling shareholder's comprehensive strengths in nuclear power technology, project pipeline, and industry chain synergy, the Company will further solidify the foundation for long-term, stable development and comprehensively strengthen its core competitiveness and industry influence. As the policy environment for the nuclear power sector continues to improve and the industry's development foundation becomes increasingly robust, the listed company will build on its new strategic positioning to pursue higher-quality and more sustainable development in the clean and low-carbon energy sector.

Guided by SPIC's mission to become a world-class clean energy enterprise with global competitiveness, we are committed to building ourselves into a world-class platform for nuclear energy investment, construction and operation.

组织架构



Organizational Structure



2025 年关键绩效

2025 Key Performance

经营治理 Corporate governance

- 资产总额
1394.06 亿元
Total assets: 139.406 billion yuan
- 营业总收入
114.31 亿元
Revenue: 11.431 billion yuan
- 纳税总额
20.84 亿元
Total tax payment: 2.084 billion yuan
- 利润总额
51.49 亿元
Total profits: 5.149 billion yuan
- 科技研发投入
58913.14 万元
R&D investment: 589.1314 million yuan

安全运行 Safe operation

- 二级以上核事件
0 起
0 level-2 or above incidents defined in the International Nuclear and Radiological Event Scale
- 一般及以上安全生产事故
0 起
0 general or major safety accidents
- 安全生产投入总额
17815.53 万元
178.1553 million yuan invested in work safety
- 员工参与安全生产培训
42292 人次
42,292 participants in work safety training for employees

绿色低碳 Green and low-carbon development

- 环保节能相关投入
14658.35 万元
146.5835 million yuan invested in environmental protection and energy conservation
- 核电发电量
202.39 亿千瓦时
20.239 TWh of nuclear power generation
- 核电发电量折合减排二氧化碳
1623.80 万吨
Nuclear power generation equivalent to a decrease in carbon dioxide emissions by 16.238 million tons
- 清洁能源发电量
34.31 亿千瓦时
3.431 TWh of clean energy generation capacity
- 清洁能源发电量折合减排二氧化碳
273.79 万吨
Clean energy generation equivalent to a decrease in carbon dioxide emissions by 2.7379 million tons
- 污水排放达标率
100%
Wastewater discharge compliance rate: 100%

服务社会 Social contribution

- 员工总数
4083 人
4,083 employees in total
- 员工培训覆盖率
100%
100% employee training coverage
- 在库供应商
4236 家
4,236 suppliers included in the supplier base
- 乡村振兴投入资金
557.82 万元
5.5782 million yuan invested in rural vitalization
- 员工参与志愿服务时长
3281 小时
3,281 volunteer service hours in total



ESG 管理

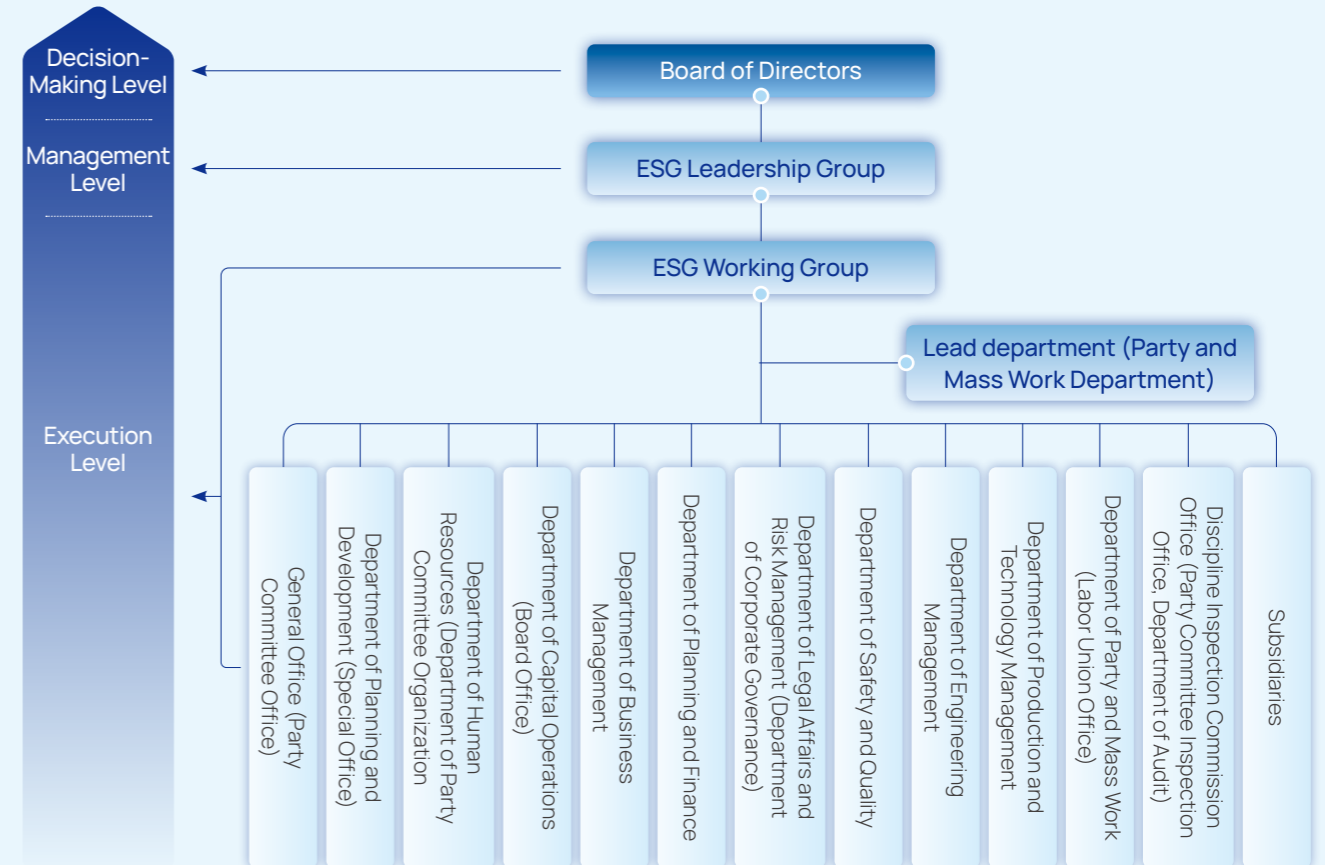
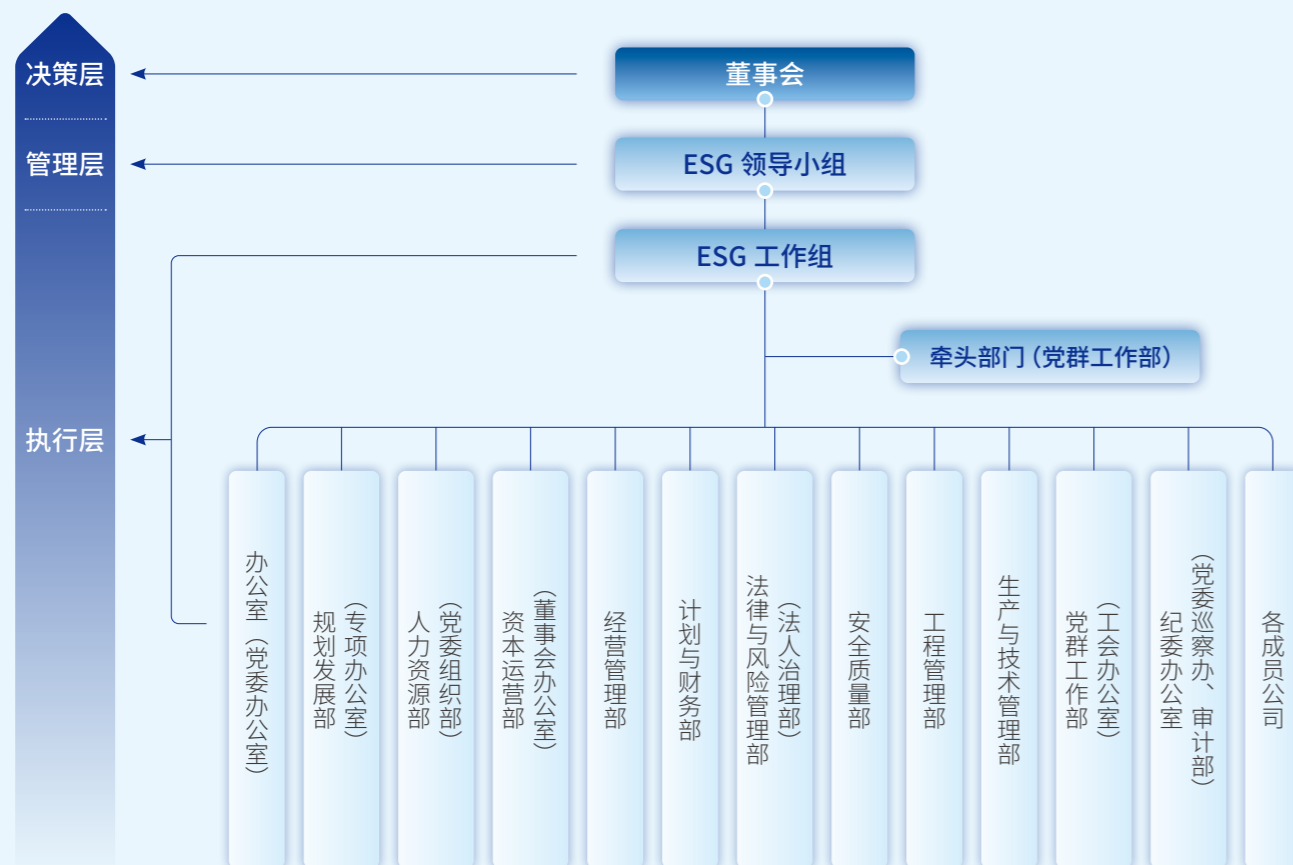
ESG Management

完善 ESG 治理架构

ESG Governance Framework

公司高度重视 ESG 治理，将 ESG 深度融入公司战略与日常运营，搭建由决策层、管理层、执行层构成的三级 ESG 治理架构，明确董事会领导下各层级 ESG 治理组织架构、人员构成与职责分工，确保建立自上而下、高效协同的 ESG 决策、管理与执行机制，提升公司可持续发展能力。

The Company places great importance on ESG governance, embedding ESG considerations deeply into its strategy and daily operations. A three-tier ESG governance structure encompassing decision-making, management, and execution has been established. Under the leadership of the Board of Directors, the organizational structure, personnel composition, and responsibilities for ESG governance at each level are clearly defined. This structure ensures a top-down and highly coordinated mechanism for ESG decision-making, management, and execution, strengthening the Company's overall capability for sustainable development.



重要性分析 Materiality Assessment

公司严格遵循 ESG 议题的分析流程，持续优化 ESG 议题识别及重要性评估机制，参考去年议题调研成果，结合同行对标分析，通过多种渠道开展调研，广泛听取内外利益相关方观点，从对利益相关方重要性和经营管理重要性两个维度进行重要性分析，识别并筛选出高度重要性议题，在报告中予以重点披露。

The Company strictly follows a structured ESG topic assessment process and continuously refines its identification and materiality assessment mechanisms. Building on the previous year's assessment and incorporating peer benchmarking, we gather input through multiple channels and engage a broad range of internal and external stakeholders. The materiality of topics is evaluated across two dimensions i.e. stakeholder materiality and business management materiality to identify and prioritize material topics, which are then prominently disclosed in this report.

议题识别
Topic Identification

解读 2025 年宏观政策、监管新规及行业热点，对标深交所 ESG 相关指引与标准要求，立足公司实际情况，识别出关键议题，形成 ESG 议题库；识别受影响的核心利益相关方。

In 2025, the Company analyzed macro policies, new regulatory requirements, and industry trends, benchmarked against the ESG-related guidelines and standards of the Shenzhen Stock Exchange, and, based on its actual circumstances, identified key ESG topics to establish an ESG topic pool, while also identifying the core stakeholders affected.

议题评估
Topic Identification

邀请内外部利益相关方参与重要性问卷调查，对潜在重要性议题进行综合评估。

Internal and external stakeholders were invited to participate in materiality assessment surveys, enabling a comprehensive assessment of potential material topics.

议题排序
Topic Prioritization

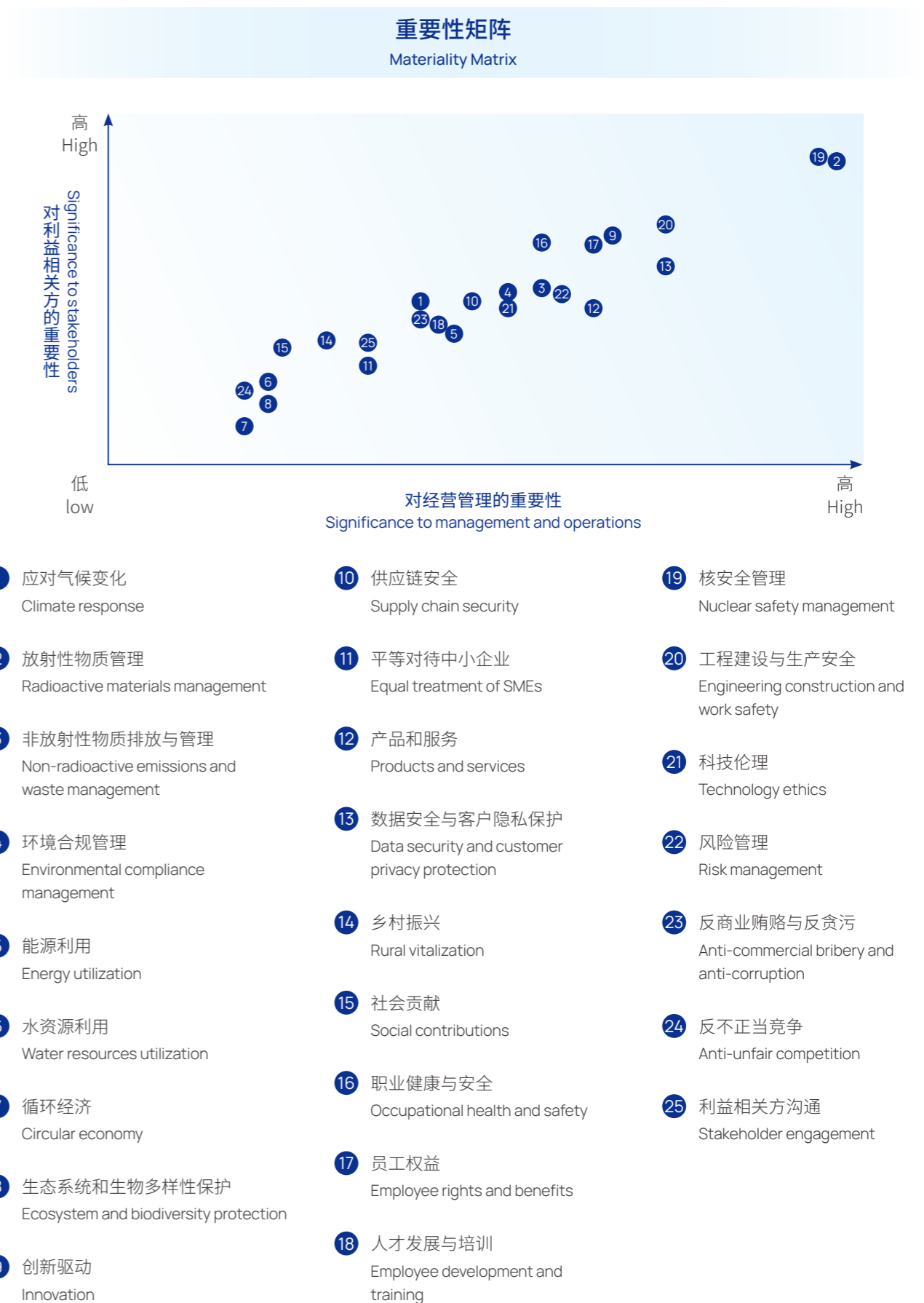
结合利益相关方问卷反馈的议题关注情况，广泛听取员工意见，并邀请外部专家、各业务部门及公司管理层从利益相关方重要性、经营管理重要性两大维度对重要性议题进行分析排序，形成 2025 年度重要性议题矩阵，明确本年度重要性议题及对应优先级。

Based on stakeholder questionnaire feedback, feedback was gathered extensively from employees. In addition, external experts, business departments, and senior management were invited to analyze and rank material topics along two dimensions i.e. stakeholder materiality and business management materiality, resulting in the 2025 materiality topic matrix, which clearly defines material topics and their corresponding priorities for the year.

议题确认与审批
Topic Confirmation and Approval

公司高级管理层对重要性议题矩阵进行审阅，并上报董事会和战略与投资委员会审批确认。

Senior management reviews the materiality topic matrix, which is then submitted to the Board of Directors and the Strategy and Investment Committee for approval.



利益相关方沟通 Stakeholder Engagement

公司高度重视与内外部利益相关方的沟通交流，构建起常态化的沟通机制，始终积极倾听并及时响应各方诉求与发展期望，致力于建立长期互信的合作关系，赢得利益相关方的支持，助力公司发展。

The Company places great emphasis on communication with internal and external stakeholders, establishing a regular communication mechanism. We always track and promptly respond to the demands and development expectations of all parties. We are committed to building long-term mutually trusting partnerships, winning the support of stakeholders, and facilitating corporate development.

利益相关方 Stakeholders



政府和监管机构
Government and regulatory authorities



股东与投资者
Shareholders and Investors



客户
Customers



员工
Employees



合作伙伴和供应商
Partners and suppliers



环境
Environment



社区和公众
Local communities and the general public

期望和诉求 Stakeholder expectations and concerns

- 保障核安全
- 遵纪守法、依法纳税
- 国有资产增值保值
- 信息披露
- Ensuring nuclear safety
- Legal compliance and tax payment
- Value preservation and appreciation of state-owned assets
- Information disclosure

- 保障股东权益
- 公司治理与风险管理
- 信息披露
- Protecting the rights of shareholders
- Corporate governance and risk management
- Information Disclosure

- 供应稳定
- 质量管理与服务保障
- Stable supply
- Quality management and service assurance

- 员工权益保障
- 员工健康与安全
- 员工培训与发展
- Employee rights protection
- Employee health and safety
- Employee training and development

- 诚信履约
- 责任采购
- 互利共赢
- Contract fulfillment with integrity
- Responsible sourcing
- Mutual benefits

- 应对气候变化
- 保护生态
- 节能减排
- Climate response
- Ecological protection
- Energy conservation and emissions reduction

- 核电生产安全
- 促进社区发展
- 公共关系
- 支持公益慈善
- Nuclear power-related work safety
- Promoting community development
- Public relations
- Supporting charity

沟通与回应 Communication and response

- 依法合规运营
- 积极主动纳税
- 接受监管审核
- 定期汇报工作
- Operational compliance
- Proactive tax contribution
- Regulatory oversight and acceptance of audits
- Regular reporting

- 定期汇报经营信息
- 稳健经营
- 透明信息公开
- Regular reporting of operating information
- Prudent and stable business operations
- Transparent information disclosure

- 保持紧密沟通
- 积极配合电网调度
- Ongoing stakeholder communication
- Coordination with grid dispatching

- 职工大会
- 提供健康安全的工作环境
- 开展系统化员工培训
- 畅通员工申诉通道
- Workers' Congress
- Safe and healthy working environment
- Systematic employee training
- Unblocked grievance and feedback channels

- 公开采购信息
- 打造责任供应链
- 开展交流合作
- Public disclosure of procurement information
- Building responsible supply chains
- Exchanges and cooperation

- 发展清洁能源
- 加强环境监测和保护
- 优化能源使用
- Developing clean energy
- Strengthening environmental monitoring and protection
- Optimizing energy usage

- 助力乡村振兴
- 推动经济就业
- 核电教育与宣传
- 开展公益活动
- Supporting rural vitalization
- Promoting economic development and employment
- Nuclear power education and publicity
- Charitable activities



响应联合国 2030 可持续发展目标
Contributions to the UN SDGs



01

经营治理篇 共筑“核”心机制

Management and Governance: Jointly Building Core Governance Mechanisms

公司持续深化 ESG 理念与公司治理深度融合，以高标准治理赋能世界一流核能投资建设运营平台发展，坚持以党建引领定向领航、以规范治理提质增效、以合规经营筑牢底线、以商业道德涵养生态，将治理要求贯穿战略落地与运营全流程，实现治理效能与可持续发展能力双向提升，为企业高质量发展提供坚实治理保障。

SPICIFH continues to deepen the integration of ESG principles with corporate governance, leveraging high-standard governance to build a world-class nuclear energy investment, construction and operations platform. The Company aligns its governance approach with Party leadership to guide strategic direction, enhances quality and efficiency through standardized governance, reinforces the compliance foundation, and cultivates an ethical business ecosystem. By embedding governance requirements throughout strategy execution and operational processes, SPICIFH strengthens both governance effectiveness and sustainable development capabilities, providing a solid foundation for high-quality development.

董事
9人
9 directors

独立董事
3人
3 independent directors

商业贿赂及贪污事件发生数量
0起
0 commercial bribery and corruption incidents

党建引领发展

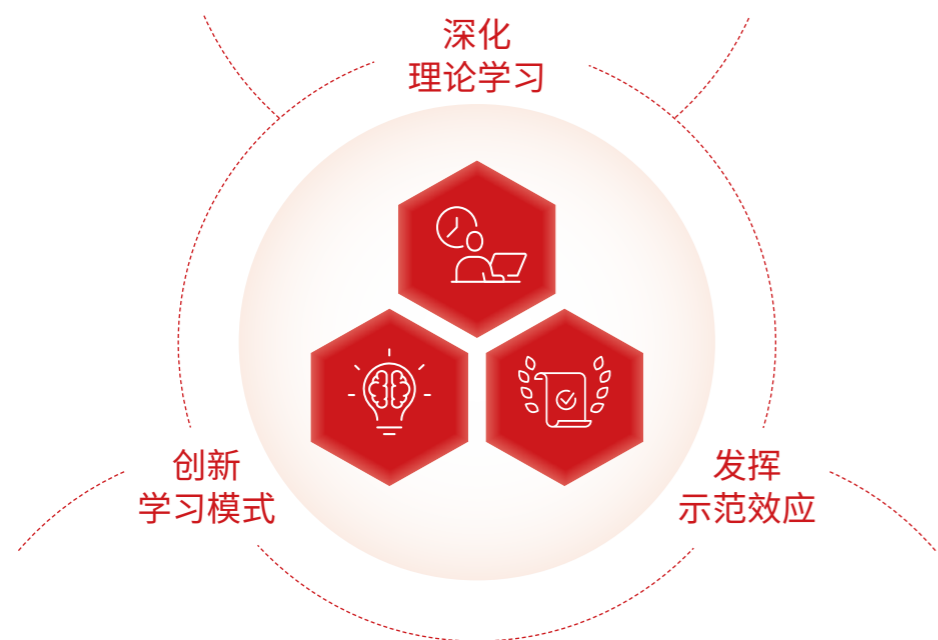
贯彻落实党中央及上级党组织的要求部署，推动理论学习制度化规范化，加强党业融合，切实把党的政治优势和组织优势转化为竞争优势，实现高质量党建引领企业高质量发展。

筑牢红色根基

公司坚持政治引领，始终用党的创新理论武装头脑、指导实践、推动工作，筑牢信仰之基，把稳思想之舵，推动党建质量稳步提升。

组织开展集体学习研讨
11次

- 公司严格落实“第一议题”制度，及时跟进学习习近平总书记重要讲话和指示批示精神，坚持用党的创新理论凝心铸魂，推动学习内容与时代发展同频共振、学习成果向实践运用转化落地。



- 公司创新拓展专家辅导+研讨模式，在提供专业视角和权威解读的基础上，聚焦如何将前沿理论、政策精神转化为公司具体行动开展研讨，实现学、用的有效衔接。

- 公司党委班子成员以上率下，带头学习研讨、深入基层讲专题党课，紧密结合公司改革发展实际，以重点发言、交流发言相结合的模式开展交流研讨，营造浓厚学习氛围。

夯实从严治党

公司深入推进党风廉政建设和反腐败斗争，坚持严字当头、实字为先，压实党风廉政建设责任，营造风清气正的干事氛围。

强化管党治党

- 公司编发《“一把手”履行管党治党“第一责任”重点任务清单》《党委班子其他成员履行管党治党“一岗双责”重点任务清单》，与党支部签订党建责任书、党风廉政建设责任书，有效压实各层级责任。

落实巡视整改

- 公司聚焦中央巡视反馈、集团共性等突出问题，自查自纠、排查梳理并建立台账。健全销号闭环管理，开发线上审批流程，建立党委“双月调度”机制，动态更新“三张清单”，对问题整改情况开展监督，确保整改事事有回音、件件有着落。

加强廉洁教育

- 公司紧盯“关键少数”，开展“一对一”廉政谈话；监督重点领域，开展招投标、小额零星采购、合同管理专项监督检查并敦促整改；通过召开警示教育大会、赴监狱开展实地警示教育活动、观看警示教育片等扎实开展警示教育，推动党员干部明底线知敬畏守初心。



公司召开庆祝中国共产党成立104周年大会暨警示教育大会

廉政谈话
29人次

警示教育大会
2次

深化党业融合

公司持续将党建融入企业经营管理，推动高质量党建转化为发展动能，赋能企业经营管理提升，助力高质量发展。

塑造党建品牌



公司持续擦亮“战略领航·使命担当”“三化先锋”等 11 个实效突出的支部品牌，将党的政治和组织优势精准切入项目管理、安全生产、技术创新等核心业务环节，引导广大党员在改革发展一线担当作为，将党建独特优势转化为企业发展的核心竞争力。



公司工程管理部核能总部运营中心封样党员先锋队

发挥模范作用



公司聚焦项目前期开发、群厂群堆生产管理、“三化”建设等中心工作，建立 26 支党员先锋队、32 个党员责任区、27 个党员示范岗，引导党员在落实集团公司“均衡增长战略”中创优争先，在急难险重任务中冲锋在前、建功立业。



公司运营标准化中心课题验收攻坚先锋队

培训基层干部



公司选配想干事、能干事、干成事的优秀年轻基层党员干部，配套培训学习机制，持续提升其灵活运用党的创新理论解决实际问题的能力，分步分阶段将其配置到关键核心岗位，为公司生产运营标准化、专业化、集约化提供坚实人才保障。

完善公司治理 Corporate Governance Enhancement

公司严格遵守《中华人民共和国公司法》《中华人民共和国证券法》《上市公司治理准则》《深圳证券交易所股票上市规则》和其他相关法律法规、规范性文件要求，持续规范公司运作，努力提升公司治理水平，确保公司运营的合规性和稳健性。

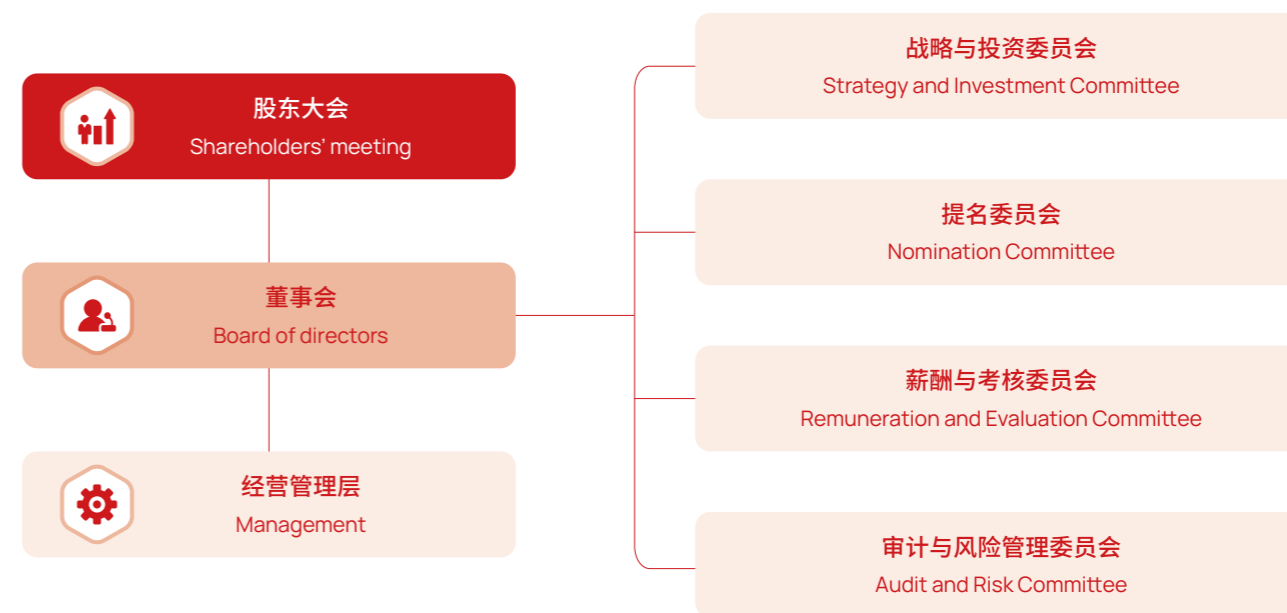
SPICIFH strictly complies with the *Company Law*, the *Securities Law*, the *Code of Corporate Governance for Listed Companies*, the *Shenzhen Stock Exchange Listing Rules*, and other relevant laws, regulations, and normative documents. The Company continuously standardizes corporate operations and strives to enhance corporate governance, ensuring the compliance and stability of our business operations.

完善治理架构

Governance structure

公司深化治理结构改革，完善由股东大会、董事会、管理层及专门委员会的治理体系，确保权力、决策、监管与管理职能的科学配置与高效运行，保障公司稳健运营与高效发展。

SPICIFH has deepened governance structure reforms and maintained a governance system composed of the Shareholders' Meeting, executive management, and specialized committees. This framework ensures a scientific and efficient allocation of authority, decision-making, supervision, and management functions, ensuring steady operations and high-efficiency development.



公司治理架构
Corporate governance structure

股东大会 Shareholders' Meeting

股东大会是公司的最高决策和权力机构，公司严格按照《公司章程》和《股东会议事规则》等相关规定召集、召开股东大会，秉持平等原则对待所有股东，并积极采取措施为股东参会提供便利条件，充分保障所有股东（特别是中小股东）的平等权利，让所有股东依法享有对公司事项的知情权和参与权，充分行使权利。

The Shareholders' Meeting is the Company's highest decision-making and authority body. The Company convenes and holds meetings in strict accordance with the *Articles of Association* and the *Rules of Procedure for Shareholders' Meetings*. Upholding the principle of equality, the Company takes active measures to facilitate shareholder participation, fully protecting the rights of all shareholders, especially small and medium-sized shareholders. This ensures that shareholders lawfully enjoy the rights to be informed and to participate in company matters, allowing them to exercise their powers fully.

董事会及其独立性和多元化 Board of Directors, independence and diversity

董事会作为公司的核心决策机构，对股东大会负责，严格遵循《董事会议事规则》，确保严格按照股东大会的授权行事，积极落实股东大会作出的各项决议，致力于维护公司及全体股东的合法权益，确保公司长远发展与股东利益最大化。根据《公司章程》规定，董事会由9名董事组成，其中独立董事3人。

The Board of Directors serves as the Company's core decision-making body and reports to the Shareholders' Meeting. It strictly follows the *Rules of Procedure for Board Meetings*, acts in accordance with the authorization of the Shareholders' Meeting, and actively implements its resolutions. The Board is dedicated to safeguarding the legitimate rights and interests of the Company and all shareholders, ensuring long-term development and maximizing shareholder value. According to the *Articles of Association*, the Board consists of nine directors, including three independent directors.

独立性 Independence

独立董事结合专业特长在股东大会、董事会及专门委员会上对战略、规范运作、经营管理、风险内控等重大事项提出意见，形成内部制衡，提升决策科学性和专业性。

Independent directors leverage their professional expertise to provide opinions on major matters, including strategy, operational compliance, management, and risk control, at the Shareholders' Meeting, board meetings, and specialized committees. This creates internal checks and balances, enhancing decision-making rigor and professionalism.

多元化 Diversity

推动董事会结构多元化，综合考量董事职业履历、教育背景、专业技能及兼职状况，吸纳多元视角精英共谋治理，增强治理效能、适应力及创新能力，提升决策品质与成效。

The Company promotes Board diversity by considering directors' professional experience, educational background, skills, and concurrent positions. This approach brings together a range of perspectives, strengthens governance effectiveness, adaptability, and innovation, and improves the quality and outcomes of decisions.

董事会专门委员会 Specialized committees

董事会下设战略投资委员会、提名委员会、薪酬与考核委员会和审计与风险管理委员会，分别负责研究专业性事项，提出专业意见和建议，为董事会的决策提供重要参考。各委员会成员严格依照工作细则履行职责，保障董事会议事决策的专业性和高效性。

The Board has established four specialized committees i.e. Strategy and Investment, Nomination, Remuneration and Assessment, and Audit and Risk Management, each responsible for reviewing matters within its mandate and providing professional advice and recommendations to support Board decision-making. All committee members perform their duties in strict accordance with their respective terms of reference, ensuring the professionalism and efficiency of the Board's deliberations and decisions.

全年

召开股东大会

7次

7 Shareholders' Meetings held in 2025

召开董事会

11次

11 board meetings held in 2025

召开战略与投资委员会会议

4次

4 meetings of the Strategy and Investment Committee held in 2025

召开提名委员会会议

2次

2 meetings of the Nomination Committee held in 2025

召开审计与风险委员会会议

5次

5 meetings of the Audit and Risk Management Committee held in 2025

强化公司治理 Corporate governance

公司已建立以公司章程为核心、议事规则为主体、其他法人治理相关制度为支撑的治理制度体系，确保各治理主体规范运行。公司各治理主体决策范围及权限更加清晰，为助推公司有效建立权责法定、权责透明、协调运转、有效制衡的公司治理机制奠定了良好的制度基础。

The Company has established a governance system underpinned by its Articles of Association, with rules of procedures as the mainstay and other governance policies as supporting elements, ensuring the standardized operation of all governance bodies. The decision-making scope and authority of each body have been further clarified, laying a solid institutional foundation for a corporate governance mechanism characterized by legally defined powers, transparency, coordination, and effective checks and balances.

依法合规经营 Lawful and Compliant Operations

公司坚持依法治企，严守依法合规经营底线，优化风险管理体系，切实筑牢风险管理防线，为高质量发展保驾护航。

SPICIFH upholds the principle of law-based governance and strictly adheres to legal and regulatory compliance. We continuously optimize our risk management system and effectively strengthen the risk management defense line, ensuring a robust defense that safeguards high-quality development.

坚持依法治企

Law-based corporate governance

公司坚持依法规范推进企业治理，有序推进法治工作，建立健全合规制度、组织、人才队伍，培育合规文化，筑牢企业稳健发展根基。

The Company adheres to a law-based approach to corporate governance and systematically advances its rule-of-law initiatives. We have established and refined compliance systems, organizational structures, and talent teams, while cultivating a culture of compliance. These efforts lay a solid foundation for the Company's sustainable and stable development.

有序推进法治工作

公司出台《世界一流法治企业建设方案》，按期完成45项工作措施；开展《中华人民共和国能源法》《中华人民共和国原子能法》宣贯、纠纷排查、普法培训、法治宣传月等工作；更新法治台账，推进章程修订及法律服务采购，持续提升企业法治建设水平。

健全合规管理体系

公司建立以《合规管理规定》为核心，重点领域专项合规指引为基础，《内控合规管理手册》为总纲的“1+N”合规管理制度体系，完善合规风险清单，编制重点领域“三张清单”，落实完善合规审查和评价机制，建设合规管理组织架构，建强合规管理队伍，全面夯实合规管理体系，筑牢合规防火墙。

厚植合规文化根基

公司常态化开展合规宣传和培训，利用线上线下平台发布活动动态、合规案例，通过送法送规到部门、展板宣传、短视频等开展多样化宣传活动，打造《采购领域职务犯罪预防》专题党课，将合规管理融入党委法治专题学习，逐步将合规文化根植于每位员工心中。

Orderly advancement of legal work

SPICIFH issued the *World-Class Law-Based Enterprise Development Plan* and completed 45 associated initiatives on schedule. The Company conducted awareness raising activities on the *Energy Law* and *Atomic Energy Law*, carried out dispute screening, legal awareness training, and a Rule of Law Publicity Month. The legal ledger was updated, the *Articles of Association* revised, and legal service procurement advanced. These efforts have continuously enhanced our law-based development.

Improving compliance management system

A “1+N” compliance management system has been established, with the *Compliance Management Regulations* at its core, key sector-specific compliance guidelines as its foundation, and the *Internal Control and Compliance Management Manual* as the overarching framework. The system includes a comprehensive compliance risk register and the development of “Three Key Lists” for priority areas. We have implemented robust compliance review and assessment mechanisms, built a dedicated compliance management structure, and strengthened the compliance management team. These measures collectively reinforce our compliance framework and fortify the Company's compliance safeguards.

Embedding a compliance culture

We regularly conduct compliance promotion and training, leveraging both online and offline platforms to share updates and compliance case studies. Through department-level guidance, display boards, short videos, and other diversified initiatives, we raise awareness across the Company. We also deliver specialized Party lectures, such as *Prevention of Occupational Crimes in Procurement*, integrating compliance management into the Party Committee's rule-of-law learning programs. These efforts gradually embed a strong compliance culture throughout the organization.



公司组织编制选送的《核电企业公司治理合规管理实践——公司治理合规“1+3”工具包》论文入选《能源企业合规管理成果集(2025)》，斩获核电企业公司治理合规管理实践二等奖。

The paper *Corporate Governance and Compliance Practices in Nuclear Power Enterprises - The '1+3' Governance Compliance Toolkit* prepared and submitted by the Company was selected for inclusion in the *Energy Enterprise Compliance Management Achievements Collection (2025)* and won the Second Prize for Corporate Governance and Compliance Practices in Nuclear Power Enterprises.

强化风险管理

Risk management

公司聚焦风险内控体系完善，持续开展重大风险识别、防控、预警等风险管理工作，保障公司稳健经营。

We focus on strengthening the risk and internal control framework, continuously conducting major risk identification, mitigation, and early warning activities to support the Company's stable and resilient operations.

升级管理体系

Upgrading the management system

公司升版《风险管理规定》《内部控制管理规定》《内控合规监督评价管理办法》等规章制度，进一步完善风险内控管理制度体系。

We have updated key regulations, including the *Risk Management Regulation*, *Internal Control Management Regulation*, and *Internal Control & Compliance Supervision and Assessment Measures*, further improving the risk and internal control management system.

开展风险防控

Implementing risk prevention and control

公司梳理《一企一策重大风险防控措施清单》，针对年度重大风险制定应对措施，按计划推进风险防控工作；充分发挥董事会及审计与风险委员会“防风险”职能，积极汇报审核重大风险防控方案，确保风险可控在控。

A “One Enterprise, One Strategy” Major Risk Control Measures List is compiled. Targeted response measures are developed for each annual major risk and implemented according to plan. The Board of Directors and the Audit & Risk Committee actively review and approve major risk prevention and control plans, ensuring that risks remain under control.

识别重大风险

Identifying major risks

公司升版全面风险数据库至V4版，组织全员开展年度重大风险评估，精准提炼筛选出七项公司重大风险；对投资项目开展穿透式专项风险评估，精准识别关键风险。

We have upgraded the comprehensive risk database to Version 4 and conducted a Company-wide annual major risk assessment, accurately identifying seven key corporate risks. In addition, targeted and in-depth risk assessments on investment projects are carried out to pinpoint critical risk factors.

开展风险防控

Implementing risk prevention and control

公司梳理《一企一策重大风险防控措施清单》，针对年度重大风险制定应对措施，按计划推进风险防控工作；充分发挥董事会及审计与风险委员会“防风险”职能，积极汇报审核重大风险防控方案，确保风险可控在控。

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重视风险预警

Highlighting risk early warning

公司构建精准风险预警与提示体系，针对建设项目争议、社招诚信、合同和采购管理、实缴出资信息公示、竞业限制条款无效等多发风险发布风险提示函及时预警，有效控制并缩小风险敞口。

A precise risk warning and alert system is established. For high-frequency risks, including disputes involving construction projects, integrity issues in social recruitment, contract and procurement management, disclosure of paid-in capital, invalid non-compete clauses, risk alert notices are issued promptly, effectively controlling and narrowing the risk exposure.

恪守商业道德 Business Ethics

公司严格遵守《中华人民共和国监察法》《中华人民共和国反垄断法》《中华人民共和国反不正当竞争法》等法律法规，恪守商业道德，持续完善反腐败反贪污和商业道德管理机制，对腐败行为零容忍，持续营造廉洁诚信商业氛围。

We strictly comply with the *Supervision Law*, the *Anti-Monopoly Law*, the *Anti-Unfair Competition Law*, and other relevant laws and regulations, adhering to high standards of business ethics. A zero-tolerance approach to corruption is enforced, with continuous improvement of anti-corruption and business integrity management mechanisms, fostering a clean and trustworthy business environment.

加强反贪腐管理 Anti-corruption management

公司持续健全完善防治腐败的体制机制，落实党风廉政建设 and 反腐败协调机制，定期召开党风廉政建设和反腐败协调小组会议。加强廉洁风险防控，更新发布《廉洁风险信息库》，分析识别廉洁风险点，排查 9 个业务领域共 110 项廉洁风险，制定针对性防控措施，落实廉洁风险防控长效机制。

The Company continuously improves its anti-corruption systems, implements the mechanisms for coordinating Party conduct, integrity building and anti-corruption efforts, and holds two meetings annually of the Coordination Group for Party Conduct and Integrity Building and Anti-Corruption. To strengthen integrity risk prevention, we have updated and published the *Integrity Risk Information Database*, analyzed and identified key integrity risk points, and assessed 110 integrity risks across nine business areas. Targeted mitigation measures have been developed and a long-term integrity risk prevention mechanism has been implemented.

强化商业道德监督 Business ethics supervision

公司聚焦关键业务开展专项监督，核查小额零星采购、物资管理及合同管理权责落实情况，梳理 4 方面 9 类问题并推动整改，实时收集违规经营投资追责线索，按季度报送相关台账，畅通监督渠道，以全链条监督筑牢关键业务合规管控防线。

We focus on key business areas through targeted supervision, verifying the implementation of responsibilities in minor procurement, materials management, and contract administration. We have identified nine types of issues across four areas and promoted corrective actions, while continuously collecting compliance and investment violation leads and reporting them quarterly. By maintaining clear supervisory channels, we strengthen full-chain oversight and ensure robust compliance controls in critical business operations.

商业贿赂及贪污事件发生数量

0 起

0 commercial bribery and corruption incidents

监督渠道 Supervision channel

监督举报电话：0535-3877742

Whistle blowing hotline: 0535-3877742

平等对待中小企业 Fair treatment of SMEs

公司年末产权口径应付账款余额为 97134.58 万元，全部按规定期限支付合同款项，报告期内不存在逾期尚未支付中小企业款项。

By the end of the year, our accounts payable under property rights amounted to 971.3458 million yuan, all of which were paid according to contractual terms. No overdue payments to small and medium-sized enterprises occurred during the reporting period.



响应联合国 2030 可持续发展目标
Contributions to the UN SDGs

 可持续发展目标 SUSTAINABLE DEVELOPMENT GOALS	3 良好健康与福祉 	9 产业、创新和基础设施 	12 负责任消费和生产
	3 GOOD HEALTH AND WELL-BEING 	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	12 RESPONSIBLE CONSUMPTION AND PRODUCTION

02 安全运行篇

共守“核”能防线

Safe Operations: Safeguarding the Nuclear Safety Line

公司坚守核安全生命线，深入贯彻核安全相关重要指示要求，统筹发展与安全，全面强化安全管理、筑牢运营安全屏障、打造精品工程，夯实安全生产根基。同时，公司以创新为核心驱动力，完善科创体系、强化知识产权保护、加速数智转型、筑牢信息安全防线，为核电安全运行和高质量发展筑牢坚实保障。

SPICIFH upholds the nuclear safety lifeline, thoroughly implementing key directives on nuclear safety, coordinating development with security, and comprehensively strengthening safety management. The Company builds robust operational safety barriers, delivers quality projects, and consolidates the foundation for work safety. At the same time, driven by innovation, the Company continuously enhances its scientific and technological innovation system, strengthens intellectual property protection, accelerates digital and intelligent transformation, and fortifies information security. These measures lay a solid foundation for the safe operation and high-quality development of nuclear power.

安全生产投入总额
17815.53 万元
 178.1553 million yuan invested in work safety

安全生产培训覆盖人次
42292 人次
 42,292 participants of work safety training

开展应急演练
362 次
 362 emergency drills conducted

科技研发投入
58913.14 万元
 589.1314 million yuan invested in technological R&D

科技研发人员数量
383 人
 383 R&D personnel

强化安全管理 Safety Management

核安全是核电企业的立身之本、发展之基，公司深入贯彻习近平总书记关于构建严密的核安全责任体系的重要指示，统筹发展与安全，积极推进安全管理，稳步提升核安全绩效，确保核安全万无一失。

Nuclear safety is the foundation and cornerstone of nuclear power enterprises. The Company thoroughly implements the important directives of General Secretary Xi Jinping on building a robust nuclear safety accountability system, balancing development with safety. We actively advance safety management, steadily enhance nuclear safety performance, and ensure absolute nuclear safety.

加强安全管理

Enhancing safety management

公司持续提高对安全生产重要性的认识，完善安全生产管控体系，强化安全风险管控，压实核安全责任，提升安全治理能力和技术水平，夯实安全管理根基。

SPICIFH continues to enhance its understanding of the critical importance of workplace safety. The Company has improved the work safety management and control system, strengthened safety risk management, and reinforced accountability for nuclear safety. These efforts have enhanced governance capabilities and technical expertise, laying a solid foundation for effective safety management.

健全安全管理制度

Strengthening safety system development

公司制定发布《安全生产责任制管理办法》《安全巡查管理实施细则》2份新制度，修订《安质环信息报送管理办法》《核安保管理办法》《安全生产重大问题挂牌督办管理办法》3份制度，进一步完善安全制度体系。

We have issued two new policies, including the *Measures for the Management of Work Safety Responsibilities* and the *Implementation Rules for Safety Inspections*, and revised three existing regulations, including the *Measures for Reporting Safety, Quality, and Environmental Information*, *Nuclear Security Management Measures*, and *Measures for Supervising Major Work Safety Issues*. These updates further strengthen and refine our safety management system.

强化安全风险管控

Enhancing safety risk management

公司全面承接集团核能领域安全管理要求，在行业对标基础上针对安全管理、消防管理等业务流程开展管理要点梳理，进一步明确责任，加强安全过程控制；建立双重预防机制和安全生产 TOP 风险管控机制，常态化开展在建核电现场安全风险识别管控工作。

We fully implement the Group's nuclear safety management requirements and, based on industry benchmarks, have systematically reviewed key business processes such as safety management and fire protection to define responsibilities and strengthen process controls. A dual-prevention mechanism and a TOP risk control system for work safety are established to routinely conduct safety risk identification and management at construction sites for nuclear power projects.

压实核安全管理责任

Reinforcing accountability for nuclear safety

公司落实集团关于构建“六位一体，上下贯通”严密核安全责任体系工作部署，组织编制《核安全责任体系管理规定》，构建“公司、部门、岗位”三级核安全责任网络，健全“责任落实、监督检查、奖惩考核、评估改进”核安全责任保障支撑机制，全面压实核安全责任。

In line with the Group's deployment to build a vertically integrated, six-dimensional nuclear safety responsibility system, we developed the *Regulations on the Management of the Nuclear Safety Accountability System* and built a three-tier responsibility network covering the Company, departments, and individual positions. Through the improvement of mechanisms for responsibility fulfillment, supervision and inspection, performance-based rewards and penalties, and assessment and improvement, we fully enforce nuclear safety accountability.

优化应急管理

Optimizing emergency management

公司围绕“七个一”持续完善应急管理体系，健全应急组织机构，配套指挥机制，明晰经费和物资，推进基地和队伍建设，开展应急演练，持续提升核安全风险应急响应能力。

We continue to enhance our "Seven-in-One" emergency management system. This includes strengthening the organizational structure and establishing supporting command mechanisms. Funding and material resources are clearly defined, while the development of response bases and teams is steadily advanced. Emergency drills are conducted to improve our capability to respond effectively to nuclear safety risks.

完善核应急组织保障

Improving nuclear emergency organizational support

公司优化核应急支援组织机构，将平台公司纳入应急组织体系，提高应急指挥协调层级，持续开展系列实战性应急支援演练，检验并持续改进应急支援指挥协调机制。

We optimize the nuclear emergency support organizational structure by incorporating platform companies into the emergency system, enhancing coordination at the command level. A series of practical emergency drills are conducted to test and continuously improve command and coordination mechanisms.

健全核应急经费保障

Establishing nuclear emergency funding mechanisms

公司建立专兼职管理人员单价及规模费用标准，支援基地建设及运维、应急支援物资采购及维护、科技创新、人员宿舍租赁等费用均摊机制，健全支援能力建设经费保障机制。

Cost-sharing mechanisms are in place, covering unit cost and scale-based expense standards for full-time and part-time management personnel, as well as expenditures related to support base construction and O&M, emergency supplies procurement and maintenance, technological innovation, and staff dormitory rental. These measures define and secure a funding mechanism to support capability development.

明晰核应急物资清单

Clarifying the list of nuclear emergency supplies

公司针对应急场景分析涉及到的设备及故障类型，明确对应的工器具规格型号及数量，形成 15 大类、263 小类，共计约 1500 余件的核应急支援物资清单。

Based on analysis of emergency scenarios, the Company defines required equipment types, specifications, and quantities, forming a comprehensive inventory of nuclear emergency supplies covering 15 major categories and 263 subcategories, totaling over 1,500 items.

打造核应急人才队伍

Building a nuclear emergency response team

公司定期开展核应急宣贯培训，多次参与核应急支援综合与单项演练，持续提升应急人才队伍的实战经验，核应急支援队已初步形成对 AP 系列核电机组的核应急支援能力。

The Company conducts regular awareness raising campaigns on nuclear emergency response and actively participates in both comprehensive and specialized emergency drills. These efforts continuously enhance the team's practical experience, enabling the nuclear emergency response team to develop necessary capacity for AP series nuclear power units.

建设核应急支援基地

Developing nuclear emergency support bases

公司根据《核电集团核应急支援基地建设标准化研究》中明确的基地建设规模和物资装备配备标准，加快烟台核应急支援基地和多个核电基地的“1+N”应急基地建设，结合“专设安全设施相关关键阀门、水淹厂房”等七个重要场景按标准购买配套设施设备。

In accordance with *Research on Standardization of Construction for Nuclear Emergency Support Base of Nuclear Power Group*, which specifies the scale of base construction and the standards for equipment and material allocation, the Company has accelerated the development of a "1+N" emergency support base network, including the Yantai nuclear emergency support base and multiple nuclear power site bases. Based on the defined standards for base scale and equipment configuration, supporting facilities and equipment are procured in line with seven key scenarios, such as critical valves associated with dedicated safety systems and plant flooding incidents.



山东核电开展应急演练
Emergency drills conducted by SDNPC

全年开展应急演练
362次

362 emergency drills conducted in 2025

核应急支援队伍已获得授权
400余人

The nuclear emergency support team has been authorized with over 400 personnel



落实安全质量监督

Strengthening safety and quality supervision

公司通过构建一体化监督机制、优化管控模式、健全本质安全评估标准体系，全方位提升安质监督质效，持续强化全链条安全质量管控，为核能产业安全有序发展筑牢坚实保障。

Through an integrated supervision mechanism, refined management and control models, and sound intrinsic safety assessment standards system, the Company comprehensively enhances the effectiveness of safety and quality oversight. These efforts continuously strengthen full-chain safety and quality control, providing a solid foundation for the safe and orderly development of the nuclear energy industry.

健全安全监督机制

Optimizing the safety supervision mechanism

公司秉持高效、统一原则，通过核安全综合监督、安全总监巡视等综合性监督，防汛防台、消防环保、迎峰度夏等专项监督，以及日常跟踪监督等多元形式，建立一体化安全监督机制，持续提升监督质效。

Guided by the principles of efficiency and consistency, the Company has established an integrated safety supervision mechanism through a combination of approaches, including comprehensive supervision such as nuclear safety oversight and safety director inspections, specialized supervision covering flood and typhoon prevention, fire protection and environmental protection, and peak summer operations, as well as routine follow-up supervision, continuously enhancing the quality and efficiency of oversight.

优化安全质量监督模式

Optimizing the safety and quality supervision model

公司积极探索本质安全体系评估方法，构建“一体化监督+体系评估”的安全质量监督模式，强化对业主及总包单位的安全质量管控，切实保障核能产业安全质量与发展的有序统一。

The Company actively explores assessment methodologies for intrinsic safety systems and establishes a safety and quality supervision model integrating "integrated oversight + system assessment". This approach strengthens safety and quality control over project owners and EPC contractors, ensuring the coordinated alignment of safety, quality, and development across the nuclear energy industry.

完善核安全评估标准

Improving nuclear safety assessment standards

公司结合在建核电项目工程进展及安全风险特点，聚焦设计、设备和作业等本质安全要素，制定《本质安全体系评估标准》，通过海阳核电项目 3、4 号机组本质安全试点评估，推动评估标准完善。

Taking into account the progress and safety risk characteristics of nuclear power projects under construction, we focus on intrinsic safety factors such as design, equipment, and operations, and develop the *Intrinsic Safety System Assessment Standards*. Through pilot assessments on Units 3 and 4 of Haiyang Nuclear Power Project, we continuously refine and enhance these standards.

培育安全文化

Cultivating a safety culture

公司定期开展安全宣贯培训，推进国内外同行业交流学习，组织核安全交流活动，持续提升全员核安全认知。

Besides regular safety awareness raising campaigns, we promote exchanges and learning with domestic and international industry peers and also organize nuclear safety communication activities to enhance employees' understanding and awareness of nuclear safety.

开展安全宣贯培训 Launching the safety training and awareness session

公司组织开展 2025 年安全生产“第一课”，深刻汲取各类安全事故事件经验教训，提高全员安全生产意识；强化安全红线意识，遵守职业操守，培育“我要安全”理念，培育“守规矩、守纪律”的安全文化，强化全员安全意识，夯实安全生产基础。

SPICIFH organizes the "First Lesson on Work Safety" in 2025, drawing lessons from various safety incidents to improve overall safety consciousness. Efforts are also made to reinforce the concept of safety red lines and adherence to professional conduct. The initiative cultivates a "Safety First" mindset and promotes a safety culture grounded in compliance and discipline. These measures have strengthened safety consciousness across all staff and laid a solid foundation for work safety.



公司组织开展 2025 年安全生产“第一课”
SPICIFH organizes the "First Lesson on Work Safety" in 2025

促进国内同行交流 Promoting domestic peer exchanges

公司加强与国内组织、同行学习和交流，积极参与行业协会的交流学习，派员 45 人次参加协会组织的各项培训、评估活动，并与专家互动，制作印发《电力公司绩效衰退预警标志》等文化和管理手册。

The Company strengthens exchanges with China's domestic organizations and industry peers, and actively participates in activities organized by industry associations. A total of 45 staff attendances are recorded in training and assessment programs, with active engagement with experts. We also develop and distribute cultural and management manuals, including *Early Warning Indicators of Performance Decline for Power Companies*.

加强国际交流学习 Enhancing international exchange and learning

公司重视与国际组织的交流和学习，积极参加世界核电运营者协会（简称“WANO”，下同）相关活动，交流最新 WANO 和核电运行研究所（INPO）相关研究成果，支持集团创建中国核学会人因工程分会，并参与上海核工院牵头组织的人因工程分会成立大会活动、人因工程分会年会等活动。

We place strong emphasis on engagement with international organizations and actively participate in activities organized by WANO, exchanging the latest research outcomes from both WANO and INPO. We also support the Group's efforts to establish the Human Factors Engineering Branch under the Chinese Nuclear Society, and have participated in its inaugural meeting and annual conferences organized by SNERDI, contributing to ongoing industry collaboration in human factors engineering.

参与国内交流学习活动

18次

18 domestic exchange and learning activities participated

开展国际交流学习活动

11次

11 international exchange and learning activities conducted



保障运营安全 Operational Safety

安全稳定运营是企业实现可持续发展的根本，公司通过持续提升在运机组生产绩效，优化设备运维，提高群厂管理效率，保障清洁能源安全稳定运营，坚决守住安全生命线。

Safe and stable operations are fundamental to sustainable enterprise development. The Company focuses on enhancing the operational performance of running units. It implements optimized equipment maintenance and strengthens management across multiple plants. These measures ensure the safe and stable supply of clean energy and firmly uphold the critical safety baseline.

提升生产运营能力

Enhancing production and operational capability

公司以体系化运作与精细化管控筑牢能源稳定供应防线，夯实群厂生产与技术管理，推动机组运营业绩持续登高，实现生产运营能力的全方位升级。

We ensure stable energy supply through systematic operations and refined management, consolidating production and technical management across multiple plants. This approach continuously improves unit performance and achieves comprehensive enhancement of production and operational capabilities.

建立能源保供体系 Establishing an energy supply assurance system



公司成立能源电力保供领导小组，组织召开迎峰度夏和供暖季能源保供工作部署会，发布迎峰度夏、迎峰度冬能源保供方案，组织开展在运电厂能源保供专项检查工作，持续为能源保供专项工作提供指导和资源支持。

We have established a dedicated leadership group for energy and power supply assurance. Targeted work plans are issued for the summer peak demand period and the winter heating season, supported by dedicated deployment meetings. Special inspections are carried out at operating power plants to ensure reliable supply, with ongoing guidance and resource support provided to reinforce energy security.

夯实生产技术管理 Strengthening production and technical management



公司建立生产与技术管理领域评估、监督工作网络，统筹群厂评估监督工作，做实群厂 SPV 设备管理和技术管理，不断完善群厂技术管理体系，保障体系化运作取得实效，持续夯实群厂生产与技术管理体系。

An integrated network for assessment and oversight across production and technical management is in place. This framework coordinates cross-plant assessment and supervision, strengthens SPV-based equipment and technical management, and continuously refines the fleet technical management system, ensuring effective system-based operations and continuously reinforcing the production and technical management framework.

提升机组生产绩效 Improving unit operational performance



公司通过群厂生产管理日会、月会、绩效指标分析改进报告及安全生产绩效指标月报，持续指导核电厂改善绩效表现。海阳核电项目运营业绩完成登高目标，其 1、2 号机组在商业运行 6 年后，首次实现双机组 WANO 综合指数 100 分。

The Company continuously guides nuclear power plants in improving performance through daily and monthly fleet production management meetings, performance indicator analysis reports, and monthly work safety performance reports. The Haiyang Nuclear Power Project has achieved its operational targets, with Units 1 and 2 attaining a WANO Composite Index score of 100 for the first time after six years of commercial operation.

优化设备运行维护

Optimizing equipment O&M

公司通过组建专项小组提升燃料运行，深化设备可靠性研究，统筹布局检修维修体系，以全链条精细化管控提升设备运行维护水平，为核电高质量发展提供坚实的设备保障。

SPICIFH has established a dedicated task force to optimize fuel performance and advance research on equipment reliability, while coordinating the planning of maintenance and outage systems. Through full-chain precise management, we enhance equipment O&M, providing a solid foundation to support the high-quality development of nuclear power.

提升燃料运行可靠性 Improving fuel operation reliability

公司组织成立燃料运行及检查可靠性提升小组，聚焦燃料破损检查与原因分析、池边检查技术和破损检查及修复技术研发、核电厂运行状态监测、燃料运行可靠性数据积累应用和经验反馈等方面，形成常态管理提升机制，制定后续行动计划，持续提升燃料运行可靠性。

A Fuel Performance and Inspection Reliability Enhancement Task Force was formed. It focuses on fuel defect inspections and root cause analysis, poolside inspection techniques, defect detection and repair technology development, plant operational monitoring, and the accumulation and application of fuel reliability data with experience feedback. The team has created a routine management improvement mechanism and developed follow-up action plans to continuously enhance fuel performance reliability.

加强设备可靠性管理 Strengthening equipment reliability management

公司开展集团 AP/CAP 系列核电机组 SPV 设备核安全增强策略课题研究，发布标准化 SPV 设备及敏感部件清单，推动多项成果持续落地，为高起点开展设备可靠性管理奠定基础，开发自主化阀门诊断系统，每台机组直接采购成本降低超 100 万元。

We conduct research on SPV equipment nuclear safety enhancement for AP/CAP series units, release standardized SPV equipment and critical component lists, and implement multiple outcomes to strengthen equipment reliability. Additionally, we have developed an in-house valve diagnostic system, reducing direct procurement costs by over one million yuan per unit.

提前谋划检修管理 Proactively planning outage management

公司统筹规划内部检维修体系及能力建设，编制集团公司核电厂检维修体系与能力建设工作方案，对比分析 AP/CAP 商运机组预防性维修大纲，优化 HY105/205 大修预防性维修项目，提前为集团核电安全稳定运行及高质量发展谋划布局。

SPICIFH coordinates the planning of our internal O&M system and capacity building by developing the Group's Nuclear Power O&M System and Capability Building Plan. We compared and analyzed the preventive maintenance programs of AP and CAP commercial units, and optimized the preventive maintenance items for the HY105/205 outages, proactively laying the groundwork to ensure the safe, stable nuclear operation and high-quality development of the Group.



国电投核电技术服务有限公司推动大修管理标准化

SPIC Nuclear Technology Services Co., Ltd. promotes standardized outage management

公司积极落实集团核电“标准化、专业化、集约化”工作部署，统筹国电投核电技术服务有限公司，组建专项大修标准化工作组，系统整合编纂《核电厂大修标准化管理丛书》，包括 12 份工作导则、11 份岗位指引和 156 份标准参考文件，为核电大修实践提供了权威行动指南，实现大修管理从“经验化”到“标准化”的关键跨越。

SPICIFH actively implements the Group's "standardization, specialization, and consolidation" initiative. The Company coordinates with SPIC Nuclear Technology Service Co., Ltd. to establish a task force to advance outage standardization, resulting in the systematic compilation of the *Standardized Management Series for Nuclear Power Plant Outages*. It comprises 12 technical guidelines, 11 role-based manuals, and 156 standard reference documents. This framework provides authoritative guidance for outage practices and marks a key transition from experience-based to standardized outage management.

提升群厂管理效率

Improving plants management efficiency

公司创新推行群厂标准化建设方案，打造可复制示范样本，优化生产准备管理体系，实现穿透式管理与资源共享，统筹建强操纵员队伍，显著提升跨项目、跨区域管理协同效能。

The Company has innovatively implemented a fleet standardization program, creating replicable benchmark models and optimizing the production readiness management system. The initiative optimizes the production preparation management system, enabling transparent oversight and efficient resource sharing. It coordinates the development of a strong operator workforce and significantly enhances cross-project and cross-regional management collaboration.

强化标准化管理 Enhancing standardized management

公司创新推出《“1+1+N”群厂标准化建设工作方案》，指导制定差异化实施计划，打造可复制、可推广的示范样本，完善三级联动体系以统筹资源，强化专业化能力建设，整合内外部优质资源，推动各专业化中心业务深入开展，持续提升核心竞争力。

SPICIFH has introduced the innovative “1+1+N” Standardized Plants Construction Work Plan to guide the development of differentiated implementation programs and creates replicable, scalable demonstration models. A three-tiered coordination system has been established to optimize resource allocation and strengthen professional capabilities. By integrating high-quality internal and external resources, the plan drives the in-depth development of each specialized center, continuously enhancing overall core competitiveness.



优化生产准备管理

Optimizing production readiness management

公司优化群厂生产准备管理制度与全周期生产准备标准体系，开发群厂生产准备管理信息系统，开创了国内核电厂对群厂穿透式管理先例，首次实现各在建核电机组生产准备资料信息的共享与互鉴，显著推动准备工作标准化、信息化与规范化水平，大幅提升了跨项目、跨区域的管理协同效率。

SPICIFH optimizes the fleet production readiness management system and the full-cycle production readiness standards, and has developed an integrated production readiness management information system. This establishes a pioneering example in China's nuclear power sector of a platform company exercising transparent oversight across plants. For the first time, information on production readiness for all under-construction nuclear units is shared and mutually referenced, significantly advancing standardization, digitalization, and formalization of readiness work, and greatly enhancing cross-project and cross-regional management collaboration.

建强操纵人员队伍

Strengthening the operator workforce

公司动态优化《核能领域操纵人员培养规划（2024-2030）》，制定《加强核电厂操纵人员队伍建设工作方案》，保障队伍建设工作规范有序推进；构建操纵人员标准化培养路径，统筹推进人员调配与资源整合，强化对操纵人员培训培养工作的指导。

The Company has dynamically optimized the nuclear operator development plan (2024-2030) and formulated the *Work Plan for Strengthening the Team Building of Nuclear Power Plant Operators* to ensure that workforce-building initiatives are implemented in a structured and orderly manner. A standardized training pathway for operators is established to coordinate personnel deployment and resource integration, and strengthen guidance on operator training and professional development.

安全运营清洁能源

Ensuring safe operation of clean energy

东方绿色能源（河北）有限公司扎实推进老旧设备风险评估与隐患治理，创新检修运维模式降本增效，深化数字化转型，构建智慧运维体系，全方位筑牢安全运营根基，赋能能源保供与高质量发展。

Dongfang Green Energy (Hebei) Co., Ltd. has steadily advanced risk assessments and hazard remediation for aging equipment, innovated outage and O&M models to reduce costs and improve efficiency, and deepened digital transformation by building an intelligent O&M system. These efforts comprehensively strengthen the foundation for safe operations while supporting reliable energy supply and high-quality development.

开展风险评估治理

Conducting risk assessment and remediation



东方绿色能源（河北）有限公司成立“评、诊、治”领导小组，有序推进生产运营诊断工作，推进2019年以后至中央财政补贴取消前投产的风电机组551台老旧风机风险评估和隐患治理，实现存量场站“评、诊”覆盖率100%，治理覆盖率超30%，挽回损失电量提升1%。

A leadership team for “Assessment, Diagnosis, and Remediation” is established by Dongfang Green Energy (Hebei) Co., Ltd. to systematically conduct production and operation diagnostics. This initiative covers 551 aging wind turbines commissioned after 2019 and prior to the withdrawal of central government subsidies. We have achieved 100% coverage in assessment and diagnosis for existing wind farms, with over 30% of identified issues remediated, recovering approximately 1% of lost electricity generation.



Innovating in outage and O&M models

创新检修运维模式

东方绿色能源（河北）有限公司创新推行“状态检修+自主检修”及热网“自检自修”模式，科学安排检修，有效提升自主管控能力，节约成本1500余万元，为保电保供热工作奠定良好基础。

Dongfang Green Energy (Hebei) Co., Ltd. has innovatively implemented the “Condition-Based Maintenance + Self-Maintenance” model, along with a “Self-Inspection and Self-Repair” approach for the heating networks. Maintenance activities are scheduled scientifically, which effectively enhances independent operational control and reduces costs by over 15 million yuan, laying a solid foundation for ensuring reliable power and heat supply.

推进智慧运行维护

Advancing intelligent O&M



东方绿色能源（河北）有限公司以“AI+供热”为抓手，推动数字化转型与供热管理深度融合，着力打造标杆供热企业。全面推行增量智慧场站建设落地，实现并网即智慧运维。构建海上风电立体监控体系，推行作业视频全覆盖，实现作业全过程可视、可溯、可监督。

Leveraging the “AI + Heating” initiative, Dongfang Green Energy (Hebei) Co., Ltd. drives deep integration of digital transformation with heating management, aiming to establish a benchmark smart heating enterprise. The company fully implements incremental smart plant construction, enabling intelligent operations from the moment of grid connection. For offshore wind power, it has built a multi-dimensional monitoring system and implemented full video coverage of operations, ensuring that all activities are visible, traceable, and fully supervised.

打造品牌工程 Brand Engineering Projects

公司以筑牢工程根基、严控建设质量为抓手，匠心铸就精品电力工程，持续擦亮核电工程品牌形象，为能源事业高质量发展注入强劲动力。

By reinforcing the engineering foundation and rigorously controlling construction quality, the Company meticulously crafts quality power projects, continuously enhancing the nuclear engineering brand and injecting strong momentum into high-quality development of the energy sector.

抓实工程质量管控

Enforcing robust project quality control

公司构建标准化、数字化、精细化的工程质量管控体系，切实保障项目建设品质，筑牢安全与合规底线。

SPICIFH has established a standardized, digital, and lean engineering quality management system to ensure construction quality and safeguard safety and compliance at every stage.



筑牢工程管理体系

Reinforcing the engineering management system

公司优化《核能项目工程建设管理规定》《工程管理监督检查管理办法》等制度，构建核电项目工程建设指标体系和标准化管理程序体系，开发建设群厂群堆项目建设智慧化管控系统，为打造核电品牌工程奠定全流程管理基础。

We have optimized policies, including the *Management Regulations on Engineering Construction Management for Nuclear Energy Projects*, and *Administrative Measures for Supervision and Inspection of Engineering Management*, established a comprehensive set of construction performance indicators and standardized management procedures for nuclear projects, as well as developed an intelligent project management system for multi-plant and multi-unit construction. These measures lay a full-process management foundation for building nuclear power brand projects.



深化设备监造监督

Deepening equipment manufacturing supervision

公司制定发布《设备集约化监造监督标准化合同范本》，完成白龙核电一期、国核莱阳一期项目设备监造监督委托合同签订，统筹推进监造监督中心能力建设，为核电项目设备制造质量提供更加坚实的保障。

We have issued the Standardized Contract Template for Centralized Equipment Manufacturing Supervision and completed supervision contract signings for the Bailong Nuclear Power Phase I and SPIC Laiyang Phase I projects. Simultaneously, we coordinate the development of the supervision center's capabilities, providing a stronger guarantee for the manufacturing quality of nuclear project equipment.



升级工程监理管理

Upgrading construction supervision and management

公司优化完善监理工作机制和流程，提升监理人员能力，充分发挥监理独立监督作用，筑牢现场质量管控防线。制定《核电项目工程施工监理标准化合同文本》，推进监理标准化、专业化建设，提升工作质量和效能。

We have refined supervision mechanisms and processes, strengthened the capabilities of supervisory personnel, and fully leveraged independent oversight to reinforce on-site quality control. Our development of the Standardized Contract Template for Nuclear Project Construction Supervision advances the standardized and professional supervision, improving both work quality and operational efficiency.



加强工程质量管控

Enhancing project quality control

公司推进在建项目 TOP 风险管控，开展工程建设经验反馈，实施专项监督检查共计 10 次，累计发现问题 455 项，全部实现闭环跟踪管理，保障项目建设高质量推进。

We implement TOP risk control for ongoing projects, conduct experience feedback reviews on engineering construction, and carry out 10 targeted supervisory inspections. A total of 455 issues were identified, all of which were tracked and resolved through a closed-loop management process, ensuring the high-quality advancement of the project construction.

铸就精品电力工程

Crafting quality power projects

公司严控质量工艺，创新体验模式，筑牢质量防线，通过技术突破与全生命周期管控打造精品标杆工程，保障能源安全。

We rigorously control quality and processes, innovate operational models to reinforce quality safeguards, and leverage technological breakthroughs along with full lifecycle management to create quality projects that ensure energy security.

筑牢精品工程根基

Laying the foundation for quality projects

东方绿色能源（河北）有限公司组织编制工程项目质量管理的纲领，明确各专业分部的质量目标、工艺标准、关键工序等控制要点及验收要求，创新设立集教育基地和工艺标准样板的安全质量工艺实体体验区，确保质量标准和安全规范内化于心、外化于行，为打造清洁能源精品工程奠定坚实基础。

Dongfang Green Energy (Hebei) Co., Ltd. has developed a comprehensive quality management framework for engineering projects, clearly defining quality objectives, process standards, key procedures, and acceptance requirements for each specialized division. Meanwhile, a hands-on safety and quality experience zone combining an education base with process standard models is established, ensuring that quality standards and safety norms are both deeply internalized and consistently applied. This lays a solid foundation for creating exemplary clean energy projects.

建设核电精品工程

Building quality nuclear power projects

公司通过技术突破、全生命周期管控及产业协同，实现核能供热、水热同传等领域示范引领，构建清洁供能新模式，推动核电产业集群发展，有效保障能源安全、优化能源结构、助力国家“双碳”战略目标实现。

Through technological breakthroughs, full lifecycle management, and industry-wide collaboration, we have established demonstrative leadership in nuclear heating and simultaneous transport of freshwater and heat. This creates a new model for clean energy supply and promotes the development of nuclear power industry clusters. It strengthens energy security, optimizes the energy mix, and makes a tangible contribution to the achievement of carbon peaking and carbon neutrality goals.



国家能源核能供热商用示范工程“暖核一号”核能供热项目联合泵站

Joint Pumping Station of the Warm-U-Clear 1 Nuclear Heating Project, the National Energy Nuclear Heating Commercial Demonstration Project

创新驱动变革 Innovation-Driven Transformation

创新是核电产业高质量发展的第一动力，公司以优化科创体系、激发创新活力为抓手，强化知识产权保护，加速数智转型进程，筑牢信息安全防线，持续以创新驱动业务变革，为核电事业高质量发展注入持久动能。

Innovation is the primary driver of high-quality development in the nuclear power industry. The Company focuses on optimizing its technological innovation system and stimulating innovation vitality, strengthens intellectual property protection, accelerates digital-intelligent transformation, and reinforces information security. Through these efforts, we continuously leverage innovation to drive business transformation and inject enduring momentum into the high-quality development of the nuclear power sector.

科技研发投入

58913.14 万元

589.1314 million yuan invested in technological R&D

科技研发人员数量

383 人

383 R&D personnel

优化科创体系

Refinement of science and innovation system

公司深化科创管理制度优化与流程完善，强化科技项目全周期管控与科技成果运营，为科技创新工作有序开展与成果高效转化提供坚实保障。

SPICIFH has deepened the optimization of innovation management systems and refined operational processes. At the same time, the Company strengthens full-cycle oversight of technology projects and the management of scientific achievements. These measures provide a solid foundation for the orderly advancement of technological innovation and ensure the efficient transformation of research outcomes.

完善科创 管理体系

Enhancing
the innovation
management
system

公司持续完善科研管理制度，编写科技创新管理程序，明确创新管理标准，召开平台科技创新大会研讨管理流程，逐步建立适配平台的科创管理体系，提升创新管理效能，有力保障各关键技术攻关和重点科研项目推进。

The Company has continuously improved our research management framework by developing technological innovation management procedures and defining clear innovation standards. Through discussions at the Platform Technology Innovation Conference, we have gradually established an innovation management system tailored to the platform, enhancing management efficiency and effectively supporting the advancement of key technology initiatives and major research projects.

强化科技 项目管理

Strengthening
technology project
management

公司全面统筹科研创新活动，充分发挥平台统筹协调与管理服务作用，凝聚创新合力，精准对接科研需求，扎实推进 B2 类科研项目全流程管理，实现重点科研项目核心任务完成率 100%，高质量达成挑战目标。

The Company comprehensively coordinates research and innovation activities, leveraging the platform's central role in coordination and management services to consolidate innovation efforts and align precisely with research needs. Through rigorous full-cycle management of B2-class research projects, we have achieved a 100% completion rate of core tasks in key projects, meeting challenge objectives with high quality.

优化科技 成果管理

Optimizing technology
achievement
management

公司系统推进科技成果价值梳理与精准运营，推动山东核电完成存量有效专利的系统性盘点与分级分类评价，形成专利分级分类及配套成果，山东核电成功获评“烟台市知识产权优势培育企业”，创新成果外部影响力持续扩大。

The Company has systematically advanced the evaluation and precise operation of technological achievements, guiding SDNPC to conduct a comprehensive inventory and tiered classification of its active patents. This process has established a structured patent grading system and associated outputs, earning recognition as a "Yantai Intellectual Property Advantage Cultivation Enterprise" and continuously expanding the external impact of our innovations.

激发创新动能

Stimulation of innovation momentum

公司通过建强创新平台、攻坚核心技术、深化协同合作，持续突破技术壁垒、整合创新资源，为产业发展注入强劲科技活力。

By strengthening innovation platforms, tackling core technologies, and deepening collaborative partnerships, SPICIFH continuously breaks through technical barriers and integrates innovation resources, injecting strong technological vitality into industry development.

推进创新平台建设

Advancing innovation platform development

公司依托北大联合实验室布局人工智能创新方向，启动“人工智能+科研”专项项目策划；高标准推进山东省重点实验室建设，成立理事会与学术委员会，完成全流程管理体系搭建，赋能科研与产业融合发展。

The Company is advancing AI-driven innovation through the Peking University Joint Laboratory and the "AI + Research" initiative. Efforts have also been made to advance the development of Shandong Province Key Laboratory to high standards, with the establishment of a council and an academic committee, and the completion of a full process management system, empowering the integrated development of research and industry.



公司积极推动山东省先进核能及核能综合利用重点实验室建设
SPICIFH actively promotes the construction of Shandong Provincial Key Laboratory of Advanced Nuclear Energy and Comprehensive Utilization of Nuclear Energy

攻坚核心技术成果

Advancing core technology achievements

公司聚焦核电机组核心装备自主可控目标，深入开展设备国产化研发与替代工作，填补多项国内技术空白。在能源技术、智能安全系统和核电关键技术等多个方向荣获 15 项科技类重要奖项。

SPICIFH is focused on achieving self-reliance and controllability for core nuclear power unit equipment. The Company has actively advanced the localization and substitution of key equipment, filling multiple domestic technological gaps. Across fields such as energy technology, intelligent safety systems, and critical nuclear power technologies, the Company has been recognized with 15 major scientific and technological awards.

深化协同创新合作

Deepening collaborative innovation cooperation

山东核电大力开展合作交流，通过政企联动、校企合作等多元模式，联合行业单位、科研机构及高校整合创新资源，携手攻坚核能产业核心技术难题，构建开放融合的创新生态。

SDNPC promotes collaboration through diverse models such as government-enterprise partnerships and university-enterprise collaboration. In doing so, the company works with industry peers, research institutions, and universities to integrate innovation resources and jointly tackle key technological challenges in the nuclear energy sector. Through these efforts, it is building an open and collaborative innovation ecosystem.

山东核电获得奖项

SDNPC Received Awards

- 2025 年获得山东省科学技术奖一等奖
- 2025 年获得第 50 届日内瓦国际发明展发明奖金奖
- 2025 年获得中国安全生产协会“安全科学技术奖”科技进步奖一等奖
- 2025 年获得中国电力企业联合会电力创新奖一等奖 2 项
- 2025 年获得发电行业水处理技术创新成果 5 星成果奖一等奖
- 2025 年获得中国仪器仪表学会科学技术奖二等奖
- 2025 年获得中国核能行业协会科学技术奖二等奖 4 项
- 2025 年获得发电行业水处理技术创新成果奖二等奖
- 2025 年获得中国核能行业协会科学技术奖科技进步奖二等奖 2 项
- 2025 年获得中国安全生产协会“安全科学技术奖”科技进步奖二等奖
- 2025: First Prize, Shandong Province Science and Technology Award
- 2025: Gold Medal, 50th Geneva International Invention Exhibition
- 2025: First Prize, Safety Science and Technology Award by China Association of Work Safety
- 2025: Two First Prizes, Power Innovation Award by China Electricity Council
- 2025: First Prize, 5-Star Innovation Award for Water Treatment Technology in the Power Generation Industry
- 2025: Second Prize, Scientific and Technological Achievement Award by China Instrument and Control Society
- 2025: Four Second Prizes, Scientific and Technological Achievement Awards by China Nuclear Energy Association
- 2025: Second Prize, Water Treatment Technology Innovation Achievement Award in Power Generation Industry
- 2025: Two Second Prizes, Science and Technology Progress Award by China Nuclear Energy Association
- 2025: Second Prize, Safety Science and Technology Award by China Association of Work Safety



保护知识产权

IPR protection

山东核电通过完善管理机制、强化知识产权申请，参加技术标准编制，提升全员保护意识、提高管理工作质量，构建全流程知识产权管理体系，为创新成果转化与高质量发展保驾护航。

SDNPC continues to improve management mechanisms while strengthening IPR filings and actively participating in the development of technical standards. At the same time, the company enhances company-wide awareness of IPR protection and improves the quality of IPR management. Through these efforts, it has built a full-process IPR management system, thereby safeguarding the commercialization of technological innovations and supporting high-quality development.

完善知识产权管理机制 Enhancing IPR management mechanisms

山东核电发布《2024 年度知识产权工作报告》《关于知识产权许可收益分配建议的报告》，升版《知识产权许可和转让管理》程序，为知识产权工作提供指引。

SDNPC issued the 2024 Intellectual Property Right Annual Report and the Report on Recommendations for the Distribution of IPR Licensing Revenue, and upgraded the IPR Licensing and Transfer Management procedures, providing clear guidance for IPR-related activities.

丰富知识产权和技术标准 Expanding IPR portfolio and technical standards

山东核电鼓励各领域技术成果申报知识产权，鼓励以各种形式参加国家、行业标准编制，持续提升公司在行业内地位和影响力。

We encourage the filing of intellectual property rights for technological achievements across all fields and promote active participation in the development of national and industry standards. These efforts continuously enhance the Company's position and influence within the industry.

提高知识产权管理质量 Enhancing the quality of IPR management

山东核电开展专利分级分类工作，形成专利分层管理模型以及专利管控清单，稳步推进知识产权贯标首年复审，增强知识产权全流程管理的合规性，为高价值专利培育提供理论依据。

SDNPC has carried out patent grading and classification, establishing a tiered patent management model and a structured control list. At the same time, it has steadily advanced the first-year review of intellectual property standards implementation, thereby enhancing compliance across the entire IP management lifecycle. In doing so, the company provides a solid theoretical foundation for the cultivation of high-value patents.



山东核电通过知识产权管理体系监督审核

SDNPC successfully passed the supervision and audit of the IPR management system.

发明专利申请数量

171 项

171 invention patent applications

发明专利授权数量

25 项

25 invention patents granted

参编标准（国际和国内）并发布

2 项

Participated in the compilation, formulation, and release of 2 standards (both international and domestic)

有效专利数量

438 项

438 valid patents

有效发明专利数量

77 项

77 valid invention patents



加速数智转型

Digital and intelligent transformation

公司通过核心生产管理系统自主研发替代、数智化建设场景化落地、数智化运维技术创新应用，全方位提升核电生产运营智能化与精细化水平，构建自主可控的核电数智化运营体系。

We advance the autonomous replacement of core production management systems while promoting the scenario-based deployment of digital and intelligent applications. At the same time, we drive the innovative application of digital and intelligent O&M technologies. Through these efforts, we have comprehensively enhanced the intelligence and refinement of nuclear power production and operations, thereby building a secure, self-reliant digital and intelligent operating system for nuclear power.

开发生产管理系统

Developing production management systems

公司牵头研发的核电生产管理信息系统成功全面上线，在集团核电板块首次实现对国外套装软件替代，实现核电厂核心业务流程、数据标准及管理规范全面统一和全方位自主可控，助力构建集约高效群厂生产管理新模式和打造世界一流核电运营管理品牌。

The nuclear production management information system, developed under our leadership, has been successfully launched. For the first time within the Group's nuclear power sector, it replaces foreign commercial software, unifying core plant business processes, data standards, and management norms in a fully autonomous and controllable manner. This initiative supports the establishment of an efficient, centralized fleet production management model and contributes to building a world-class nuclear power operations management brand.



上线核电生产管理信息系统
Successfully launched the nuclear power production management information system

推进数智化建设

Advancing digital and intelligent development

山东核电成立“AI+ 核电设备健康特战队”，升级建设“山核慧知 3.0 架构”，落地山核智擎智能体开发平台，建成反应堆厂房数字孪生等系统，落地全国首套换料防异物坠落智能侦测系统，实现核燃料全生命周期智慧管理，全面提升核电设备管理与生产运营的智能化、精细化水平。

SDNPC has established a dedicated "AI+Nuclear Equipment Health Task Force", upgraded the Shanhe Huizhi 3.0 Architecture, and deployed the Shanhe Zhiqing intelligent agent development platform. The company has also implemented systems such as a digital twin of the reactor building and introduced China's first intelligent foreign object detection system for refueling operations, enabling full lifecycle smart management of nuclear fuel. These initiatives comprehensively enhance the intelligence and precision of nuclear power equipment management and production operations.



全国首套换料防异物坠落智能侦测系统
China's first intelligent foreign object detection system for refueling operations

实施数智化运维

Implementing digital and intelligent O&M

国电投核电技术服务有限公司引入设备和备件信息智能提取技术，通过 IDP、RPA 与 AI 增强技术，实现核电厂运维手册、装配图、系统说明书等技术资料需求信息自动化提取，实现设备及备件基础数据梳理、智能自动化录入和相关数据统计，减轻人员工作量并提高数据准确性。

SPIC Nuclear Technology Services Co., Ltd has introduced intelligent extraction technologies for equipment and spare parts information. By leveraging IDP, RPA, and AI-enhanced technologies, it automates the extraction of technical information from Nuclear Power Plant O&M manuals, assembly diagrams, and system manuals. This enables systematic organization of equipment and spare parts data, intelligent automated entry, and relevant data statistics, reducing manual workload while improving data accuracy.

信息化、数字化投入资金
3120.81万元
31.2081 million yuan invested
in IT-based management and
digitalization

保障信息安全

Information security

公司严格遵守《中华人民共和国网络安全法》《中华人民共和国数据安全法》《中华人民共和国个人信息保护法》等法律法规和重要政策文件相关要求，扎实推进信息安全管理与意识培育等工作，全力保障公司数字化转型安全稳定。

We strictly comply with *China's Cybersecurity Law, Data Security Law, the Personal Information Protection Law*, and other relevant laws, regulations, and key policy directives. On this basis, we steadily advance information security management and strengthen employee awareness, thereby ensuring the safe and stable progression of the Company's digital transformation.

健全安全机制

Strengthening security mechanisms

公司编制发布《网络安全管理办法》《数字化管理办法》《数据中心管理细则》《数据管理办法》等管理制度，贯彻网络安全等级保护制度，强化入侵防御、访问控制、流量监控、病毒防护等，实现网络安全态势感知与处置，切实筑牢网络安全防线。

We have developed and issued management policies including *The Cybersecurity Management Measures, Digital Management Measures, Data Center Management Guidelines, and Data Management Measures*. In line with the multi-level protection scheme for cybersecurity, we have strengthened intrusion prevention, access control, traffic monitoring, and antivirus protection. As a result, we have enhanced our capabilities in cybersecurity situational awareness and incident response, thereby effectively reinforcing our overall cybersecurity defenses.



严守网络安全 Ensuring cybersecurity

公司完善网络安全运维体系，落实 7 x 24 小时值班值守监测制度，建立网络安全事件应急响应机制，落实漏洞扫描与修复工作，强化系统本质安全。首次独立完成“长城行动”网络安全实战演习活动，成功处置各类网络攻击，演习期间各系统安全、稳定运行。

We have continuously improved our cybersecurity operations and maintenance framework. Accordingly, we have implemented a 7x24 monitoring and on-duty mechanism, established a structured incident response system, and carried out vulnerability scanning and remediation, thereby strengthening intrinsic system security. Meanwhile, we independently completed the "Great Wall Action" cybersecurity drill for the first time. During the exercise, we effectively responded to various cyberattacks, ensuring that all systems remained secure and stable throughout.

强化宣教引导 Enhancing awareness raising and guidance

公司组织开展网络安全宣传周活动，通过直播分享、座谈研讨、专岗考试、线下宣传等多种形式，系统学习国内外网络安全态势、典型网络安全攻击事件的应对策略，强化员工网络安全意识与技能。

The Company organizes Cybersecurity Awareness Week activities, using live broadcasts, panel discussions, specialized examinations, and on-site promotion campaigns to provide comprehensive learning on domestic and international cybersecurity trends and response strategies to typical cyberattacks. These initiatives have significantly enhanced employees' cybersecurity awareness and practical skills.

国家电投

响应联合国 2030 可持续发展目标
Contributions to the UN SDGs



03

绿色低碳篇 共绘“核”美蓝图

Green and Low-Carbon Development: Co-Creating a Nuclear-Powered Sustainable Future

公司践行绿色低碳发展理念，主动应对气候变化，全面筑牢环境风险防控屏障，持续深化节能降耗与污染防控，优化能源与资源利用效率，推动企业运营与自然环境和谐共生，为国家碳达峰、碳中和目标实现贡献核电力量。

SPICIFH actively embraces the principles of green and low-carbon development, proactively addressing climate change while strengthening comprehensive environmental risk prevention and control systems. The Company continues to advance energy conservation and emissions reduction, and pollution prevention and control, while optimizing the utilization efficiency of energy and natural resources. By promoting the harmonious coexistence of corporate operations and the natural environment, SPICIFH leverages the advantages of nuclear power to contribute to China's carbon peaking and carbon neutrality goals.

核电发电量
202.39 亿千瓦时
20.239 TWh of nuclear power generation capacity

核电发电量折合减排二氧化碳
1623.80 万吨
Nuclear power generation equivalent to a decrease in carbon dioxide emissions by 16.2380 million tons

污水排放达标率
100%
Compliance rate for treated wastewater discharge:100%

环保节能相关投入
14658.35 万元
146.5835 million yuan invested in environmental protection and energy conservation

应对气候变化 Climate Change Response

公司积极响应国家“双碳”战略部署，参照气候相关财务信息披露工作组（TCFD）披露框架建议，系统识别并分析气候相关风险与机遇，制定针对性气候行动策略，持续提升气候变化议题治理水平。

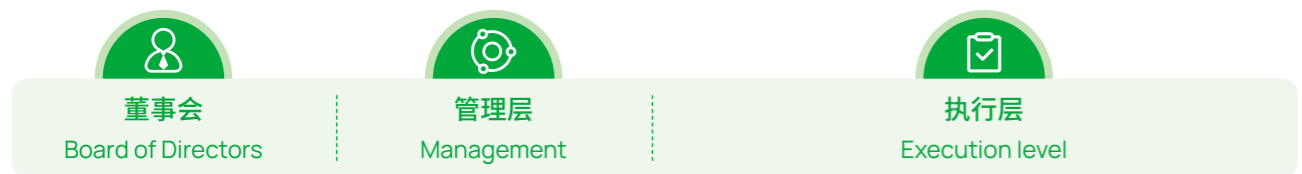
The Company actively responds to China's strategic deployment of carbon peaking and carbon neutrality goals. In alignment with the recommendations of the Task Force on Climate-Related Financial Disclosures (TCFD), we systematically identify and assess climate-related risks and opportunities, develop targeted climate action strategies, and continuously enhance governance capabilities on climate-related topics.

气候治理

Climate governance

公司遵循监管机构要求，将气候变化议题纳入公司整体治理体系，逐步建立健全气候治理框架，推进应对气候变化相关能力建设，确保气候议题管理的可持续性。

In compliance with regulatory requirements, climate-related topics have been integrated into the Company's overall governance system. A systematic climate governance framework has been established and continuously improved, alongside ongoing capacity building to address climate change. These efforts ensure the sustainability of climate topic management.



- 董事会和党委会作为重大事项决策机构，负责监督公司气候变化风险相关事宜，审核气候变化应对行动的落实，制定碳减排目标。
- 总经理负责落实董事会和党委会决策并制定适应型战略以实现绿色生产和绿色运营，推动公司气候、环境相关战略落地。
- 安全质量部承担公司环境管理相关职能，推动绿色低碳发展实践，定期披露气候相关风险和机遇识别结果，评估其对公司业务的影响及减排成效。
- 法律与风险管理部统筹公司整体风险管理工作，系统开展风险识别、评估与监控工作，牵头构建并落地气候变化相关风险响应机制，提升公司在气候变化背景下的风险韧性。
- The Board of Directors, together with the Party Committee, serves as the decision-making body for significant matters. Climate-related risks are overseen at this level, with responsibility for reviewing the implementation of climate response actions and approving carbon emission reduction targets.
- The President is responsible for implementing the decisions of the Board and the Party Committee, and formulating adaptive strategies to advance green production and operations, ensuring the effective execution of the Company's climate- and environment-related strategies.
- The Department of Safety and Quality is responsible for environmental management functions, promoting green and low-carbon development practices. Climate-related risks and opportunities are regularly identified and disclosed, and their potential impacts on business operations, as well as emissions reduction performance, are evaluated.
- The Department of Legal Affairs and Risk Management oversees overall risk management. Systematic risk identification, assessment, and monitoring are conducted, while a climate-related risk response mechanism is led and implemented to enhance resilience under climate-related challenges.

治理架构
Climate governance structure

气候战略

Climate strategy

公司持续识别气候变化对运营及业务的影响，在发展战略中充分考虑应对策略，牢牢把握发展新质生产力重大任务，积极助力新型电力系统建设和“双碳”目标的实现，立足清洁能源行业特点，有序稳妥推进碳达峰工作的业务计划及长期减碳转型策略。

We continuously identify the short-, medium-, and long-term impacts of climate change on our operations and business. Our development strategy fully integrates corresponding response measures, firmly focusing on the critical mission of advancing new-quality productive forces. We actively assist in the construction of the evolving new-type power system and the realization of the carbon peaking and carbon neutrality goals, leveraging the unique characteristics of the clean energy sector to methodically and steadily advance our business plans for achieving carbon peaking and our long-term carbon reduction transformation strategy.

气候风险识别与应对

Climate risk identification and response

风险类别 Risk category	风险识别 Risk identification	应对策略 Response strategy
 实体风险 Physical risks	<p>台风、暴雨暴雪、洪涝等极端天气引起的急性风险和气候变暖、海平面上升等慢性风险，可能影响核电站的运营连续性及在建核电站的建设。</p> <p>Acute risks arising from extreme weather events such as typhoons, heavy rain, snowstorms and flooding, as well as chronic climate-related hazards, including rising temperatures and sea level rise, may disrupt the operational continuity of nuclear power plants and affect the construction progress of projects under development.</p>	<ul style="list-style-type: none"> ● 基于先进的核电技术设计理念，核电站在设计阶段已全面考量极端天气影响，其标准覆盖海温升高、极端寒暑、台风及地震等自然条件；厂址标高以抵御可预见的海啸与海水倒灌风险，并对内部与外部水淹情况均制定完备预案。 ● 常态化开展应急演练，强化外部事件防护能力、提升应急响应能力，定期对在运核电站进行安全评估。 ● Based on advanced nuclear power technology and design principles, extreme weather conditions are comprehensively considered at the design stage of nuclear power plants. Design standards cover a wide range of natural factors, including rising sea temperatures, extreme heat and cold, typhoons, and seismic events. Site elevation is determined to withstand foreseeable risks such as tsunamis and seawater backflow, with comprehensive contingency plans established for both internal and external flooding scenarios. ● We conduct routine emergency drills to strengthen protection against external events and enhance emergency response capabilities, while regular safety assessments are performed on operating nuclear power plants.
 转型风险 Transition risks	<p>国家“双碳”目标背景下，政策变动、市场及技术风险。</p> <p>Risks associated with policy changes, market and technology under China's carbon peaking and carbon neutrality goals.</p>	<ul style="list-style-type: none"> ● 严格遵守国家法律法规，建立并持续完善覆盖生态保护、节能降耗、污染物与碳排放管控的管理制度体系。 ● 积极拓展核能综合利用，深化先进核能技术研发与数字化转型，加速创新成果落地，持续提升运营能效。 ● We strictly comply with national laws and regulations, establish and improve our management system related to ecological protection, energy conservation and consumption reduction, as well as pollutant and carbon emissions control. ● We actively expand the comprehensive utilization of nuclear energy, deepen the development of advanced nuclear technologies and digital transformation, and accelerate the commercialization of innovative achievements, continuously enhancing operational energy efficiency.

能源绿色低碳转型

Energy green and low-carbon transition



稳健开发核电 Steady development of nuclear power

公司秉持“积极安全有序发展核电”原则，扎实推进核电项目开发，实现核能装机容量稳步增长。截至2025年底，在运核电机组2台，年度发电量202.39亿千瓦时，装机容量250万千瓦，年度上网电量等效减少燃烧原煤约619.70万吨，等效减排二氧化碳约1623.80万吨，公司在建及核准待建机组4台，装机容量500万千瓦。

Guided by the principle of "active development of nuclear power in a safe and orderly manner", we steadily advance the development of nuclear power projects, achieving steady growth in installed nuclear capacity. By the end of 2025, the Company operated two nuclear power units with an annual power generation of 20.239 TWh and an installed capacity of 2.5 GW. The annual grid-connected electricity effectively reduced standard coal consumption by approximately 6.1970 million tons and decreased the emission of approximately 16.2380 million tons of carbon dioxide equivalent. Additionally, four units are under construction or have been approved for construction, with a combined installed capacity of 5 GW.



核能综合利用 Comprehensive utilization of nuclear energy

围绕核能综合利用，海阳核电项目已建成世界最大的热电联产核能基地，供暖面积已达1350万平方米，“暖核一号”已安全稳定运行六个供暖季，累计输送热量1432万吉焦，节约原煤约129万吨，有效减排236万吨二氧化碳、1.5万吨二氧化硫和1.4万吨氮氧化物，相当于1340万棵树一年的清洁效益。

Focusing on the comprehensive utilization of nuclear energy, the Haiyang Nuclear Power Project has established the world's largest cogeneration nuclear energy base, supplying heating for nearly 13.5 million square meters. The Warm-U-Clear 1 has safely and stably operated for six consecutive heating seasons, delivering a cumulative heat output of 14.32 million GJ. This has saved approximately 1.29 million tons of raw coal and reduced carbon dioxide emissions by 2.36 million tons, sulfur dioxide by 15,000 tons, and nitrogen oxide emissions by 14,000 tons, equivalent to the annual carbon sequestration of 13.4 million trees.



“在役百万级压水堆核电机组热电联供改造关键技术研究”项目荣获山东省科学技术进步奖一等奖。

The project "Key Technology Research for Cogeneration Retrofit of Operating Million-Kilowatt Pressurized Water Reactor Nuclear Units" was awarded the First Prize of the Shandong Provincial Science and Technology Progress Award.

风险管理

Risk management

将气候相关风险纳入企业整体风险管理体系，建立涵盖风险识别、评估、控制与应对的动态管理机制。制定《自然灾害风险防控管理办法》，常态化开展自然灾害风险识别，建立高效的自然灾害风险监测和预警机制，实施风险评估与分级响应，确保各项应对措施有效落实，筑牢气候风险防线。

报告期内，各核电厂根据ISO 14001环境管理体系对企业生产全过程进行有效控制，科学设定目标、指标及管理方案，持续提升气候韧性与绿色运营水平。

Climate-related risks are integrated into the Company's overall risk management system, with a dynamic management mechanism established to cover risk identification, assessment, control, and response. The *Natural Disaster Risk Prevention and Control Measures* has been formulated, under which natural disaster risks are routinely identified, and an efficient risk monitoring and early warning system has been implemented. Risk assessments and graded response protocols are carried out to ensure the effective implementation of all mitigation measures, thereby reinforcing the climate risk defense line.

During the reporting period, all NPPs conducted effective control over the entire production process in accordance with the ISO 14001 Environmental management systems, setting scientifically grounded targets, indicators and management plans, and continuously enhancing climate resilience and green operational performance.

指标与目标

Metrics and targets

核电作为清洁能源，生产过程中仅产生少量温室气体排放，公司持续开展碳排放监测，每年对碳排放指标进行系统性监测，推动碳排放强度与排放总量双降。同时，稳步推进碳足迹核算及全生命周期温室气体排放核算工作，以科学管理夯实低碳发展根基。

As a clean energy source, nuclear power generates only minimal greenhouse gas (GHG) emissions during production. SPICIFH continuously monitors carbon emissions, conducting systematic assessments of carbon indicators annually, and actively drives reductions in both carbon intensity and total emissions. At the same time, the Company steadily advances carbon footprint accounting and full life-cycle greenhouse gas emission assessments, laying a scientifically grounded foundation for sustainable low-carbon development.

年度核电机组发电量

202.39 亿千瓦时

20.239 TWh of electricity generated from nuclear power units

核电发电量相当于减少燃烧原煤

619.70 万吨

Nuclear power generation equivalent to a reduction of 6.1970 million tons in raw coal combustion

核电发电量相当于减少二氧化碳排放

1623.80 万吨

Nuclear power generation equivalent to a decrease in carbon dioxide emissions by 16.2380 million tons

清洁能源机组发电量

34.31 亿千瓦时

3.431 TWh of electricity generated from clean energy units

清洁能源发电量相当于减少燃烧原煤

160.11 万吨

Clean energy generation equivalent to a reduction of 1.6011 million tons in raw coal combustion

清洁能源发电量相当于减少二氧化碳排放

273.79 万吨

Clean energy generation equivalent to a decrease in carbon dioxide emissions by 2.7379 million tons

温室气体（范围一）排放

347.86 万吨二氧化碳当量

Scope 1 GHG emissions: 3.4786 million tCO₂e

温室气体（范围二）排放

1.98 万吨二氧化碳当量

Scope 2 GHG emissions: 19,800 tCO₂e



防控环境风险 Environmental Risk Prevention and Control

公司坚守生态优先发展导向，持续完善环境管理体系，强化源头风险防控，落实全流程环境监测，实施动态跟踪与闭环管理，推动企业发展与环境保护双赢。

SPICIFH adheres to an ecological-first development approach, continuously improving its environmental management system and strengthening upstream risk prevention. Full-process environmental monitoring is implemented, supported by dynamic tracking and closed-loop management, ensuring a balance between corporate development and environmental protection.

环境管理体系

Environmental management system

公司严格遵守《中华人民共和国环境保护法》《中华人民共和国放射性污染防治法》《中华人民共和国大气污染防治法》《中华人民共和国核安全法》等生态环保法律法规要求、行业标准及集团公司要求，构建核电行业特色环境管理体系，稳步提升环境保护工作质效，为生态文明建设注入核电动能。

We strictly comply with China's ecological protection laws and regulations, including the *Environmental Protection Law*, *Radioactive Pollution Prevention Law*, *Air Pollution Prevention Law*, *Nuclear Safety Law*, as well as industry standards and requirements from SPIC. A nuclear power-specific environmental management system has been established and continuously improved, steadily enhancing the quality and efficiency of environmental protection efforts and injecting nuclear-driven momentum to the construction of ecological civilization.

重大环境污染事故 0 起 0 major environmental pollution incidents



完善环境管理机制

Enhancing environmental management mechanisms

公司持续推进安全、质量与环境（SQE）体系建设，以“职责清晰化、控制精准化、制度实效化”为目标，系统梳理安质环管理关键点，强化责任落实与过程控制，2025 年发布安质环相关《生态环保管理办法》《联合质保监查实施细则》等 4 份制度，修订《安质环信息报送管理办法》《核安保管理办法》等 4 份制度，保障安全、质量、环保三大目标协同落地。

SPICIFH continues to advance the construction of the Safety, Quality, and Environment (SQE) system, guided by the principles of well-defined responsibilities, precise controls, and effective systems. Key points in safety, quality, and environmental management are systematically reviewed to strengthen accountability and process control. In 2025, four new policies were issued, including the *Ecological and Environmental Management Measures* and the *Implementation Rules for Joint Quality Assurance Inspections*, while four existing policies, such as the *SQE Information Reporting Management Measures* and *Nuclear Security Management Measures*, were revised, ensuring the coordinated achievement of safety, quality, and environmental objectives.

防范环境污染风险

Preventing environmental pollution risks

山东核电强化环境风险源头治理，开展跨部门、多层级环境风险联合辨识行动，针对生产、施工、办公生活等全领域潜在风险要素，形成风险清单并制定差异化管控策略，推动风险管控标准化、清单化、动态化。专项制定核泄漏等事故预案，最大限度降低潜在生态危害，确保风险全面受控。

SDNPC strengthens environmental risk prevention at the source by conducting cross-departmental, multi-level joint environmental risk identification exercises. Potential risk factors across production, construction, and office/living environments are systematically cataloged, and differentiated control strategies are developed to standardize, list, and dynamically manage these risks. Specific emergency plans, including those for nuclear leakage incidents, are formulated to minimize potential ecological impacts and ensure comprehensive risk control.

环境影响评价

Environmental impact assessment

山东核电严格遵循相关环境法规要求，全面评估生产运营对生物多样性、海洋环境、土壤状况等方面的潜在影响，避免对周边生态环境造成破坏，实现核电站与周围环境的和谐共存。

SDNPC strictly adheres to relevant environmental regulations to comprehensively assess the impacts of our operations on biodiversity, marine environments, soil conditions, and other ecological factors. It aims to prevent damage to surrounding ecosystems and promote harmonious coexistence between NPPs and their environments.

规划阶段
Planning stage

在核电厂选址和规划时，对项目所在地及周边区域的生物多样性、海洋生态和土壤现状进行详细的基线调查。运用模型预测核电厂运行后可能产生的温排水、放射性物质排放等对周边海洋、土壤环境及生物的影响范围和程度。

At the site selection and planning phase of NPPs, we conduct detailed baseline surveys of biodiversity, marine ecology, and soil conditions in the project area and surrounding regions. We use modeling to predict the potential scope and extent of impacts caused by thermal discharge, radioactive emissions, etc. on the surrounding marine, soil environments, and biological communities.

建设阶段
Construction stage

明确要求承包商采取必要的生态保护措施，如避免破坏植被、减少水土流失等。

We require contractors to implement necessary ecological protection measures, such as avoiding vegetation damage and minimizing soil erosion.

运行阶段
Operation stage

分析污染物在海洋环境中的扩散规律以及对海洋生物的影响，同时监测土壤中放射性物质累积情况，评估对土壤生态系统的长期影响。定期评估核电厂的温排水对海洋生态，包括对海洋生物繁殖、洄游等行为的影响。

We analyze the dispersion patterns of pollutants in the marine environment and their impacts on marine organisms, while monitoring the accumulation of radioactive substances in soil to evaluate long-term effects on soil ecosystems. We also conduct regular assessments of thermal discharge impacts on marine ecology, including effects on the reproduction and migration behaviors of marine species.

生态环境监测

Ecological and environmental monitoring

山东核电依据国家核安全法规和环境标准，构建涵盖放射性与非放射性要素的监测评价体系，持续监测和跟踪项目从规划、设计、建造到运维全过程对周边环境的影响。监测数据定期通过官方渠道公开，主动接受各级监管部门和社会公众监督。

In accordance with national nuclear safety regulations and environmental standards, SDNPC has established a comprehensive monitoring and evaluation system covering both radioactive and non-radioactive elements. The system continuously tracks the environmental impact of projects throughout the full lifecycle from planning and design to construction and O&M. Monitoring data are regularly disclosed through official channels, ensuring transparency and proactive oversight by regulatory authorities and the public.



新建项目环评通过率

100%

Approval rate for environmental impact assessments of new projects: 100%



内部监测

Internal monitoring

山东核电建立常态化环境监测体系，针对空气、水、土壤、生物等介质布设多类监测点位，采用高灵敏度仪器，按月度、季度、年度等差异化频次开展监测。构建全链条数字化管理体系，实现环境监测全流程智能化追溯与数据自动采集。报告期内，正常运行期间周边区域放射性水平远低于国家安全限值。

Based on our routine environmental monitoring system, SDNPC deploys multiple monitoring points across air, water, soil, and biological media, and utilizes high-sensitivity instruments. Monitoring is conducted at differentiated intervals—monthly, quarterly, and annually. A full-chain digital management system has been implemented to enable intelligent traceability and automated data collection throughout the entire environmental monitoring process. During the reporting period, radiation levels in surrounding areas remained well below national safety limits under normal operation.



外部监测

External monitoring

山东核电积极配合国家生态环境部等外部机构开展监督性监测，依据相关标准规范布设监测点位、开展针对性检测。报告期内，核电厂周边环境指标符合国家规定限值，未发生异常或超标情况。

SDNPC actively cooperates with external agencies, including the Ministry of Ecology and Environment, to conduct supervisory monitoring. Monitoring points are established and targeted testing carried out in accordance with relevant standards and regulations. During the reporting period, environmental indicators around the nuclear power plants complied with national limits, with no abnormal or excessive readings observed.



山东核电打造辐射环境监测数字化标杆

SDNPC establishes a digital benchmark for radiation environmental monitoring

山东核电环境监测实验室依托全链条数字化管理体系，开展核电厂辐射环境监测工作，检测结果准确率与管理效率均实现显著提升，实践成果获评 2024 年“电力行业化验室建设典型案例”。实验室成熟的数字化管理经验为核电行业环境监测领域提供了可复制、可推广的示范范例。

The SDNPC Environmental Monitoring Laboratory leveraged a full-chain digital management system to carry out radiation environmental monitoring for the nuclear power plant. As a result, both testing accuracy and management efficiency were significantly enhanced. This best practice was recognized as a “Typical Case of Laboratory Development in the Power Industry” (2024). The laboratory’s mature digital management approach provides a replicable and scalable model for environmental monitoring across the nuclear power sector.

善用资源能源 Efficient Resource and Energy Utilization

公司高度重视资源节约和能源高效利用，积极探索能源、水资源、核燃料的高效利用路径，稳步向资源节约型、环境友好型企业建设目标迈进。

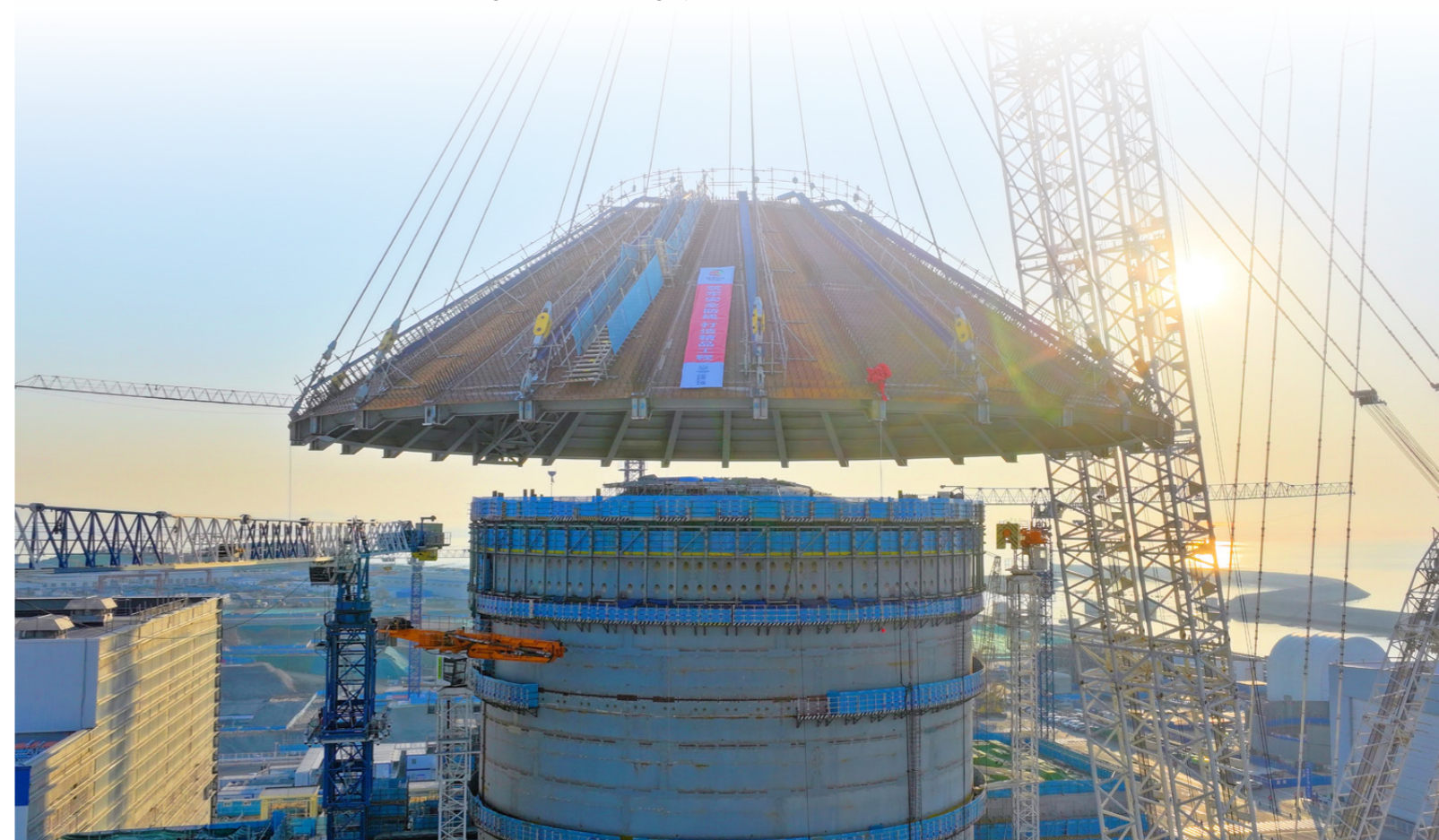
SPICIFH places strong emphasis on resource conservation and the efficient utilization of energy. We actively explore efficient utilization pathways for energy, water resources, and nuclear fuel, and steadily advance toward becoming a resource-efficient and environmentally friendly enterprise.

核燃料管理

Nuclear fuel management

山东核电持续健全核燃料管理制度体系，通过应用先进科技与优化管理流程，提升核燃料管理的标准化、专业化、集约化水平，稳步提高核燃料的使用效率和经济效益。依据核电厂运行要求，对核燃料的运行实施有效监督，确保现场运行管理与换料设计一致。对标 WANO 燃料可靠性指标体系，对燃料完整性实施指标化与趋势化管理。

SDNPC continues to improve and strengthen the nuclear fuel management system. By applying advanced technologies and optimizing management processes, the standardized, specialized, and centralized management of nuclear fuel have been continuously enhanced, steadily improving fuel utilization efficiency and economic performance. In accordance with NPP operational requirements, effective oversight is implemented over nuclear fuel operations to ensure alignment between on-site management and refueling design. Benchmarking against the fuel reliability indicator system of the World Association of Nuclear Operators (WANO), we carry out indicator-based and trend-based management of fuel integrity.



能源管理

Energy management

公司深入践行节能降耗的绿色发展理念，将能源管理全面融入生产、运营全过程，促进能源与资源的高效利用。

Committed to the green development principle of energy conservation and emissions reduction, we fully integrate energy management into the entire production and operation lifecycle, promoting the efficient utilization of energy and resources.

运营环节节能管理

Energy management in operations



公司积极应用绿色低碳工艺和先进技术成果，加大对电机、泵、压缩机、变压器、换热器等主要用能设备和辅机设备的能效提升改造。密切跟踪机组出力变化状况，及时发现系统异常并开展分析评价。开展高耗能设备替换或改造方案、设备启停策略、设备季节运行方式优化等研究，系统压降厂用电率。

SPICIFH actively applies green and low-carbon processes and advanced technological achievements, and intensifies energy efficiency upgrades for major energy-consuming equipment and auxiliary systems, including motors, pumps, compressors, transformers, and heat exchangers. The Company closely monitors unit output performance, promptly identifying system anomalies and conducting analysis and evaluation. In parallel, studies are carried out on high energy-consuming equipment replacement and retrofit solutions, equipment start-stop strategies, and seasonal operation optimization, systematically reducing internal power consumption rates.

施工环节节能管理

Energy management in construction



公司依据施工计划，对施工现场的电力、水源等能源展开重点巡查，实时跟踪能源使用状况，及时发现能源浪费的环节。合理规划施工设备的使用时间和功率，通过精准调度，提高设备使用效率。采用预制构件和装配式施工方法，将部分施工环节转移至工厂进行，减少现场作业量，降低施工过程中的能源消耗，并有效减少废弃物产生。通过现场设置封闭木工车间、裸土全面覆盖、回填时启用雾炮湿作业，减少因扬尘处理带来的额外能源消耗；四周围挡设置自动喷淋降尘设备，并连接智能监测设备，根据扬尘情况自动调节喷淋强度，有效控制现场扬尘，确保符合环保要求，避免水资源和能源的浪费。在施工区域全面采用具备 36V 安全电压的节能灯带，达成作业区域节能照明的全方位覆盖。同时，依据作业规划，对非作业区域的照明灯具实施节能实时监控。

Based on construction plans, we conduct key inspections of electricity and water usage on construction sites, tracking consumption in real time and identifying wasteful practices. We schedule equipment operation period and power. Through precise scheduling, we enhance equipment efficiency and reduce unnecessary energy consumption. We utilize prefabricated components and modular construction techniques to shift parts of the process off-site, thereby reducing on-site workload, lowering energy consumption during construction, and minimizing waste generation. This approach achieves both energy conservation, emissions reduction and greener construction. We implement targeted measures to optimize energy use in dust control, including establishing enclosed woodworking workshops, fully covering exposed soil, and deploying mist spray systems during backfilling operations. Automated spraying systems are installed along site perimeters and integrated with intelligent monitoring devices to dynamically adjust spray intensity based on dust levels, ensuring environmental compliance while avoiding excess water and energy use. Energy-efficient lighting is comprehensively deployed across construction areas using 36V low-voltage LED light strips to achieve full coverage of energy-saving illumination. At the same time, real-time energy-saving controls are applied to lighting in non-operational areas in accordance with construction plans.

汽油消耗量

228.27 吨

228.27 tons of gasoline consumption

能源消耗总量

260.48 万吨标准煤

2.6048 million tons of standard coal equivalent of energy consumption in total

万元产值综合能耗（可比价）

2.85 吨标准煤 / 万元

Comprehensive energy consumption per 10,000 yuan of output value (at comparable prices): 2.85 tons of standard coal equivalent per 10,000 yuan

水资源管理

Water resource management

公司高度重视水资源的科学管理和高效利用，严格管控取水、节水环节，积极引入先进节水技术，优化用水流程，持续提升水资源利用效率，助力企业绿色发展。

We place great emphasis on the scientific management and efficient use of water resources. We strictly control water intake and conservation processes. Advanced water-saving technologies are actively adopted, and water use workflows are optimized. Through these measures, we continuously enhance water use efficiency to support the Company's green development.

淡水耗水量

128.85 万吨

1,288,500 tons of freshwater use



取水环节

Water intake

山东核电针对取水环节严格执行定额管理制度，按规定期限申请年度用水定额。建立巡检与分析制度，防范水资源泄漏风险。国核莱阳以海水淡化作为冷却塔补水水源，降低盐沉积对周边环境的影响。

SDNPC strictly implements quota management for water intake and applies for annual water use quotas within the prescribed timeframe. It has established inspection and analysis systems to prevent water leakage risks. At SPIC Laiyang, seawater desalination is used as the source for cooling tower make-up water, reducing salt deposition impacts on surrounding environment.



节水环节

Water conservation

山东核电通过生活水管网降压运行、ASS 冷却水节水改造等措施降低水耗，2025 年 3 月获得 2024 年工业用水效率达标国家用水定额先进纳税人称号。

SDNPC reduces water consumption through measures such as pressure-reducing operation of domestic water pipelines and retrofitting ASS cooling water systems. In March 2025, SDNPC was recognized as a National Advanced Taxpayer for Industrial Water Efficiency for meeting the 2024 water use efficiency standards.

中水回用

Reclaimed water reuse

山东核电通过实施精细化浇灌方案（错峰灌溉、滴灌技术应用）与加强日常巡查维护，2025 年中水回用浇灌绿化面积 6.2 万平方米，绿化用水量节约 1.06 万吨。

SDNPC implements refined irrigation plans, including off-peak irrigation scheduling and drip irrigation technology, and strengthens routine inspection and maintenance. In 2025, reclaimed wastewater was used to irrigate 62,000 square meters of greenery, saving 10,600 tons of water for landscaping purposes.

降低污废排放 Pollutant and Waste Reduction

山东核电严格遵循法律法规，落实放射性废物安全处置要求，持续强化废水、废气及固体废弃物（“三废”）管理水平，规范危险废物管理，最大限度降低污废排放对环境的影响，助力生态环境可持续发展。

SDNPC strictly abides by relevant laws and regulations and implements requirements for the safe disposal of radioactive waste. Furthermore, it continuously strengthens the management of wastewater, waste gas, and solid waste (“three wastes”), and standardizes hazardous waste management. Through these efforts, the company minimizes the environmental impact of waste and pollution emissions and supports sustainable ecological development.

放射性废弃物管理

Radioactive waste management

山东核电严格遵守《中华人民共和国放射性污染防治法》《中华人民共和国核安全法》《放射性废物安全管理条例》《核电厂放射性液态流出物排放技术要求》等法律法规，加强放射性废弃物管理，降低放射性废弃物的环境影响。

SDNPC strictly complies with *the Law on Prevention and Control of Radioactive Pollution, the Nuclear Safety Law, the Regulations on the Safety Management of Radioactive Waste, and the Technical Requirements for the Discharge of Radioactive Liquid Effluents from Nuclear Power Plants*, among other relevant Chinese laws and regulations. On this basis, the company continues to strengthen radioactive waste management, thereby minimizing its environmental impact.

管理目标



Management objectives

山东核电以安全为目的，以处置为核心，确保放射性废物得到减量化、无害化的处理、处置，保障人类及环境在当前及未来均获得充分的保护，避免给后代带来不适当的负担。

With safety as the guiding principle and disposal as the core, SDNPC aims to ensure that radioactive waste is treated and disposed to reduce the volume and make it harmless. The company aims to fully protect both human health and the environment for the present and the future, while preventing undue burdens on future generations.

管理方法



Management approach

山东核电制定完善的放射性废物管理程序体系，遵循“减少产生、分类收集、净化浓缩、减容固化、严格包装、安全运输、就地暂存、集中处置、控制排放、加强监测”的方针，按照源头控制优先、全过程管理、全员责任和持续优化的原则开展放射性固体废物分类、收集、转运、预处理、处理、整备、暂存和处置等工作。

SDNPC has established a comprehensive system of procedures for radioactive waste management. It follows the principles of “minimizing generation, classified collection, purification and concentration, volume reduction and solidification, proper packaging, safe transportation, on-site temporary storage, centralized disposal, controlled discharge, and enhanced monitoring”. Its radioactive solid waste management is in line with the principles of source control, whole-process management, accountability at all levels, and continuous improvement, covering classification, collection, transfer, pre-treatment, treatment, conditioning, temporary storage, and final disposal.

管理举措



Management measures

健全管理机制：严格按照管理程序和技术规程开展放射性废物处理和贮存，全面核对放射性废物台账和实物，充分评估放射性废物的安全状态，确保放射性废物处理、贮存、处置全程安全合规。

Improving management systems: We carry out radioactive waste treatment and storage in strict accordance with established procedures and technical protocols. We conduct comprehensive verification of radioactive waste inventories against physical records, and thoroughly assess the safety status of radioactive waste. Through these measures, we ensure that the entire process of radioactive waste treatment, storage, and disposal remains safe and fully compliant.


积极践行放射性废物最小化：开展废物源头管控和放射性废物清洁解控，推行废物循环利用。

Promoting radioactive waste minimization: We implement source control and clean clearance of radioactive waste, and promote recycling and reuse where applicable.


管理成效





Performance outcomes


 放射性固体废物产生量远低于设计值。

 The radioactive solid waste generated remained significantly below the design limits.

 液态流出物（除氚碳外其它核素）占国家年限值：0.89%，排放量远低于国家批复排放限值。

 The discharge of liquid effluents (excluding tritium and carbon radionuclides) accounted for only 0.89% of the national annual limit, figures well below the regulatory thresholds approved by the state.

 气态流出物（惰性气体）占国家年限值：2.26%，排放量远低于国家批复排放限值。

 The discharge of gaseous effluents (inert gases) accounted for 2.26% of the national annual limit, figures well below the regulatory thresholds approved by the state.

非放射性废弃物管理

Non-radioactive waste management

山东核电遵守《中华人民共和国固体废物污染环境防治法》《一般工业固体废物贮存和填埋污染控制标准》（GB 18599-2020）等相关法律法规及标准要求，对非放射性废物进行合规处理，不断提升废物精细化管理水平，以降低对环境的负面影响。

SDNPC strictly complies with relevant laws and regulations such as *China's Law on the Prevention and Control of Environmental Pollution by Solid Waste* and the Standard for pollution control on the non-hazardous industrial solid waste storage and landfill (GB 18599-2020), ensuring the compliant treatment of non-radioactive waste. It is committed to enhancing the lean waste management to minimize environmental impact.

管理目标



Management objectives

大气污染治理设施、废水处理设施安全稳定运行，固体废物、危险废物实现合规贮存和处置，不断减少非放射性危险废弃物的产生。

We maintain the safe and stable operation of air pollution control and wastewater treatment facilities, and achieve compliant storage and disposal of both general solid waste and hazardous waste. We actively reduce the generation of non-radioactive hazardous waste.

管理方法



Management approach

山东核电严格执行危险废物转移联单管理制度要求，确保合法合规处置。完成危废库智慧终端与“无废山东”监管平台“API对接”申请，实现危险废物“五即”管理（即产生、即包装、即称重、即打码、即入库）。

SDNPC rigorously implements the hazardous waste transfer manifest system to ensure legal and compliant disposal of hazardous waste. At the same time, SDNPC advances the API integration of the smart terminal in hazardous waste storage facilities with the "Zero-Waste Shandong" regulatory platform, enabling the "Five Immediate Actions" management approach (production, packaging, weighing, labeling, and storage).

管理举措



Management measures

完善管理体系：制定《工业固体废物管理》《废弃化学品管理》等管理程序，规范一般固废、危险废物的收集、贮存、处置等要求，并设置专人负责，确保危险废物全过程得到有效管控。

Improvement of the management system: We have developed management procedures such as *Industrial Solid Waste Management* and *Waste Chemicals Management* to standardize the collection, storage, and disposal of general solid and hazardous waste. Dedicated personnel are assigned to oversee implementation, ensuring effective control throughout the entire lifecycle of hazardous waste.

暂存处置：建有危险废物暂存库、一般工业固体废物暂存场所对一般固废和危废进行暂存，并委托有资质单位进行外委处置。

Temporary storage and disposal: Dedicated temporary storage facilities have been established for hazardous waste and general industrial solid waste. Qualified third-party contractors are engaged to carry out off-site disposal.

应急处置：发布危险废物现场应急处置方案，针对厂内运输等发生的危险废物倾洒等风险，提出应急响应措施，并按要求定期开展培训和演习。

Emergency response: We have issued an on-site emergency response plan for hazardous waste to address potential risks such as spills during in-plant transport. Regular training and emergency drills are conducted in accordance with the plan.



一般固体废弃物产生量

81.01 万吨

0.8101 million of general solid waste generated

一般固体废弃物综合利用率

100%

The comprehensive utilization rate of general solid waste: 100%

危险废弃物产生量

87.43 吨

87.43 tons of hazardous waste generated

危险废弃物处置率

99.9%

Hazardous waste waste disposal rate: 99.9%

非放射性污水排放

Non-radioactive wastewater discharge

山东核电秉持高效、环保的原则，严格遵照《中华人民共和国环境保护法》《中华人民共和国海洋环境保护法》等法律法规，规范管控污水的处理和排放，确保处理后的水质达到国家和地方环保部门的排放标准。

Adhering to the principles of efficiency and environmental protection, SDNPC strictly complies with national laws and regulations such as the *Environmental Protection Law* and the *Marine Environmental Protection Law*. It maintains stringent control over wastewater treatment and discharge, ensuring that treated effluent meets national and local environmental discharge standards.

管理目标



Management objectives

各核电站非放射性废水处理设施正常运行，产生的非放射性污水按照法规标准全部实现达标排放。

All nuclear power plants operate non-radioactive wastewater treatment facilities in normal condition, and all non-radioactive wastewater is discharged in full compliance with regulatory standards.

管理方法



Management approach

针对非放射性废水排放管理，建立相应的程序制度，对废水收集混合，经取样检测合格，满足排放标准和程序要求后排放。

For the management of non-radioactive wastewater discharge, corresponding procedures and systems have been established. Wastewater is collected and blended, and after sampling and testing confirms compliance with discharge standards and procedural requirements, it is discharged.

管理举措



Management measures

建立管理机制：制定生活污水处理站运行管理制度和操作规程。

Institutional development: We have established detailed operation and management procedures for sewage treatment stations.

分类处置：大部分生活污水经污水处理站处理达标后通过市政污水管网纳管排放，少部分生活污水经污水处理站处理达标后回用，用于厂区绿化灌溉。

Classified disposal: The majority of domestic sewage is treated to meet standards at wastewater treatment stations and then discharged via municipal sewage pipelines. A small portion of treated domestic sewage is reused for plant landscaping irrigation.

管理成效



Management outcomes

海阳核电项目 1、2 号机组商运以来，未发生过非受控排放的问题。

Since the commercial operation of Units 1 and 2 of Haiyang Nuclear Power Project, no incidents of uncontrolled discharge have occurred.

生活污水外送量

8.78 万吨

87,800 tons of domestic sewage transported off-site

生活污水中水回用量

0.96 万吨

9,600 tons of reclaimed domestic wastewater reused

非放射性生产废水排放量

894.65 万吨

8.9465 million tons of non-radioactive industrial wastewater discharged

污水排放达标率

100%

Compliance rate for treated wastewater discharge:100%



弘扬绿色理念 Advocacy of Green Principles

公司秉持人与自然和谐共生理念，系统开展环保培训强化员工认知，广泛组织生态环保实践活动，积极倡导绿色办公和低碳生活方式，推动绿色发展理念深入人心。

The Company upholds the principle of harmonious coexistence between humans and nature. We systematically carry out environmental protection training to strengthen employee awareness, and organize a wide range of ecological and environmental initiatives. At the same time, we actively promote green office practices and low-carbon lifestyles, thereby embedding the concept of green development across the organization.

员工参与环保培训

2492 人次

2,492 employee participations in environmental protection training

环保节能相关投入

14658.35 万元

146.5835 million yuan invested in environmental protection and energy conservation

倡导绿色办公

Promoting green office practices



节约纸张

Paper reduction

公司应用无纸化会议系统，大力推行“精文减会”，逐年减少会议和发文次数，鼓励双面打印、减少彩印，提高打印纸利用率。

We have adopted a paperless meeting system and actively streamlined documentation and meetings year by year. Employees are encouraged to print doublesided and reduce color printing to improve paper utilization efficiency.



节水节电

Water and electricity conservation

公司采用节能灯管从照明设备源头降低能耗。推送关于节约的屏保，在办公楼宇内张贴节约用水提示标牌，发布全员“碳路先锋 绿动未来”倡议书，倡导节约用水。

We reduce energy consumption at the source by adopting energy-efficient lighting systems. Awareness is reinforced through conservation-themed screensavers and water-saving signage in office buildings. In addition, we issue the "Carbon Pioneer, Green Future" initiative to encourage water conservation and resource-saving behaviors among all employees.



低碳出行

Low-carbon commuting

公司购置、租赁新能源车，减少传统汽油车使用；倡导以视频会议代替现场会议，减少参会人员通勤频次。

We procure and lease new energy vehicles to reduce reliance on conventional gasoline-powered cars. We also promote the use of video conferencing as an alternative to in-person meetings, thereby reducing commuting frequency and associated emissions.

践行生态保护

Advancing ecological protection

公司积极践行生态环境保护与生物多样性管理，组织开展植树造林活动，促进生态系统稳定与恢复，以实际行动践行绿色发展理念，助力美丽中国建设。

We actively implement ecological protection and biodiversity management initiatives. Tree-planting and afforestation activities are regularly organized to support ecosystem stability and restoration. Through these practical actions, we reinforce our commitment to green development and contribute to the vision of a "Beautiful China".



海阳核电项目实施“南红北移”红树林引种试验

Haiyang Nuclear Power Project advances mangrove introduction trial under the "northward migration of southern mangroves" program

海阳核电项目以温排水综合利用为抓手，开展“南红北移”红树林种植项目。项目设置6个红树植物秋茄种植区，同时建立常态化监测机制，落实保暖措施保障红树植株越冬。项目已培育出包含3龄红树约300株、2龄约4000株、1龄约3000株的红树植株群落，推动核能综合利用与岸滩生态修复协同并进，积极探索提升区域生物多样性的创新路径。



The Haiyang Nuclear Power Project leverages the integrated utilization of thermal discharge water to implement a mangrove planting initiative under the "northward migration of southern mangroves" program. Six planting zones for *Kandelia obovata* have been established, alongside a routine monitoring mechanism. Protective measures, including winter insulation, are applied to ensure the survival of mangrove plants in colder climates. To date, the project has successfully cultivated a mangrove community comprising approximately 300 three-year-old plants, 4,000 two-year-old plants, and 3,000 one-year-old plants. Through these efforts, the project promotes the coordinated development of nuclear energy utilization and coastal ecosystem restoration, while actively exploring innovative pathways to enhance regional biodiversity.



山东核电开展“映山红 植此青绿”植树活动，18年来义务植树2100余棵。

SDNPC organized the "Love from SDNPC, Planting for a Greener Future" tree-planting initiative, during which more than 2,100 trees have been voluntarily planted over the past 18 years.



国核莱阳连续第三年开展“创造绿色价值 奉献绿色动力”公益植树活动，种植树苗3000余棵，绿化面积达230亩。

For the third consecutive year, SPIC Laiyang organized the "Creating Green Value, Contributing Green Power" tree-planting campaign, planting over 3,000 saplings and covering an area of approximately 230 mu (about 15.3 hectares) with greenery.



响应联合国 2030 可持续发展目标
Contributions to the UN SDGs



04 服务社会篇

共建“核”谐社区

Social Contribution: Building a Nuclear-Powered Harmonious Community

公司坚持“以人为本”的发展理念，积极响应国家乡村振兴战略号召，长效化推进公益慈善事业，以透明沟通持续增进社会信任。为员工提供全方位发展平台，推动个人成长与企业发展深度融合。同时，携手合作伙伴共筑可持续产业生态，通过多方合力与价值共享，共同促进社会和谐与可持续发展。

SPICIFH upholds a people-centered development philosophy. We actively respond to the national rural vitalization strategy and advance public welfare and charitable initiatives on a sustained basis. Through transparent communication, we continuously strengthen trust with society. We provide employees with comprehensive development platforms, promoting the deep integration of individual growth and corporate development. At the same time, we collaborate with partners to build a sustainable industrial ecosystem. Through collective efforts and shared value creation, we contribute to social harmony and sustainable development.

员工总数
4083 人
4,083 employees in total

员工培训覆盖率
100%
100% employee training coverage

在库供应商
4236 家
4,236 suppliers included in the supplier base

乡村振兴投入资金
557.82 万元
5.5782 million yuan invested in rural vitalization

员工参与志愿服务时长
3281 小时
3,281 volunteer service hours in total

助力乡村振兴 Rural Vitalization

公司积极响应乡村振兴战略，全面落实集团公司乡村振兴工作部署，通过产业帮扶、教育帮扶、带动就业、改善基建等多维举措，推动地方产业转型升级、民生福祉持续改善，为乡村振兴注入可持续发展动力。

We actively respond to China's rural vitalization strategy and fully implement the Group's deployment in this area. Through multi-dimensional initiatives, including industrial support, education assistance, job creation, and infrastructure development, we promote the transformation and upgrading of local industries and continuously improve community well-being. In doing so, we inject sustainable momentum into rural vitalization.

推动产业帮扶

Advancing industrial support

公司推动“核电+产业”融合模式，将项目资源转化为乡村发展动能，构建“核电引领、产业跟进、村民受益”的良性机制。

We promote the integrated "nuclear power + industry" development model, transforming project resources into drivers of rural development. Through this approach, a virtuous mechanism is established, where nuclear power leads, industries follow, and local communities benefit.



山东核电打造国内首个帮扶领域“医养膳颐幸福综合体”项目

SDNPC develops China's First "Integrated Healthcare, Elderly Care, and Wellness Complex" in targeted assistance programs

2025年，山东核电派驻山东省菏泽市成武县刘王庄省派第一书记赵云峰带领帮扶村，持续拓展国内首个帮扶领域“医养膳颐幸福综合体”项目，通过现有资源整合、功能补充、服务优化、活跃要素等方式，为帮扶村群众，特别是老年和困难群体，提供集医疗、养老、膳食、便民、文化活动于一体的民生保障综合服务平台，每年各类服务惠及2万+人次，为助力乡村振兴提供创新性、可复制性的民生服务样板新模式，不断推动帮扶地区高质量发展。

In 2025, Zhao Yunfeng, the First Secretary appointed by SDNPC to Liuwangzhuang Village in Chengwu County, Heze City, led the assisted village in advancing China's first "Integrated Healthcare, Elderly Care, and Wellness Complex" project within the targeted assistance framework. By integrating existing resources, enhancing functional offerings, optimizing service delivery, and activating local development factors, the project provides a comprehensive public service platform that combines medical care, elderly care, catering, convenience services, and cultural activities. It primarily serves local residents, particularly the elderly and disadvantaged groups. The initiative benefits more than 20,000 service visits annually and has established an innovative and replicable model for improving public welfare services in rural areas. Through this approach, we continue to support high-quality development in assisted regions.



幸福院助老食堂营业

The community elderly care canteen



开展助老义诊活动

Free medical consultation activities for the elderly

深化教育帮扶

Deepening educational support

山东核电持续推进雷锋学校建设，建成亚沙城小学、育才小学2所，均为集团公司首批雷锋学校，开展“山东省海阳教育提质行动”，提升当地教学质量，为核电产业的可持续发展培育本土人才，营造良好生态。

SDNPC continues to advance the development of Lei Feng Schools, establishing Yashacheng Primary School and Yucai Primary School as the Group's first two model Lei Feng Schools. In parallel, the "Haiyang Education Quality Enhancement Initiative of Shandong Province" has been implemented to improve local teaching standards. Through these efforts, we cultivate local talent to support the sustainable development of the nuclear power industry and foster a sound educational ecosystem.

改善基础设施

Improving infrastructure

国核莱阳配合地方政府打造“核”兴共富乡村振兴示范片区，将核电元素与乡村振兴相融合，完成乡道多处涉核元素景观技术方案修订，与莱阳地方政府达成一致意见，推动核电文化与美丽乡村建设有机融合。

SPIC Laiyang collaborates with local governments to develop nuclear-powered rural vitalization demonstration zones for shared prosperity, integrating nuclear energy elements into rural vitalization. Technical plans for incorporating nuclear-related landscape features along multiple rural roads have been revised and aligned with the Laiyang local government, promoting the organic integration of nuclear culture with the development of beautiful rural communities.



国核莱阳打造乡村涉核元素景观

Rural landscapes incorporating nuclear-related elements by SPIC Laiyang

带动当地就业

Driving local employment

电投核能（威海市文登区）能源有限公司结合自身业务发展与运营需求，积极挖掘本地人力资源潜力，提供当前有切实需求的部分工作岗位，为当地创造就业机会。

SPIC NE Wendeng leverages its business development and operational needs to actively tap into local human resource potential. By offering positions with immediate practical demand, it creates employment opportunities for the local community.



乡村振兴投入资金

557.82 万元

5.5782 million yuan invested in rural vitalization

热心公益慈善 Philanthropic Efforts

公司秉承回馈社会的使命担当，积极践行社会责任，热心投身公益慈善事业，广泛开展形式多样的志愿服务活动，深入服务地方社区，为构建美好和谐社会贡献坚实力量。

The Company embraces its mission to give back to society and actively fulfills its social responsibility. We enthusiastically engage in public welfare and charitable initiatives, organizing a wide range of volunteer services and community activities. Through these efforts, we provide meaningful support to local communities and contribute to building a harmonious and thriving society.

公益支出总额

371.39 万元

3.7139 million yuan invested in public welfare

全年开展公益项目

94 项

94 public welfare projects carried out in 2025

员工参与志愿服务

945 人次

945 employee participations in volunteering service

员工参与志愿服务时长

3281 小时

3,281 volunteer service hours in total



国核莱阳开展“银龄关怀”敬老志愿服务，实现敬老服务与科学普及的有机结合

SPIC Laiyang conducting "Silver Age Care" volunteer services, combining elderly care with science education outreach



连续 16 年开展爱心助学活动，2025 年共募集助学金 9.83 万元，资助贫困学子 83 人

Carrying out scholarship assistance programs for 16 consecutive years; in 2025, 98,300 yuan was raised to support 83 students from disadvantaged families



赴核电周边村庄开展慰问关爱活动

Visiting villages surrounding nuclear power areas to deliver care and support

山东核电“映山红山核情”系列活动

"Love from SDNPC" series activities organized by SDNPC



开展核电小学送温暖“暖核行动”

Implementing the "Nuanhe Action" program at local primary schools

透明公众沟通 Transparent Public Communication

公司恪守公众沟通透明化原则，围绕涉核领域公众关切，积极策划宣传和科普活动，组织开展“核电科普进校园”等活动，主动回应社会关切、权威解读核安全知识，有效搭建企业与公众的沟通桥梁，切实提升公众对核能与核安全的科学认知水平。

The Company upholds the principle of transparent public communication. We actively plan outreach and science education campaigns that address public concerns related to the nuclear field. Initiatives such as the "Nuclear Power Science Popularization in Schools" program are organized to provide authoritative explanations of nuclear safety knowledge and proactively respond to social concerns. These efforts effectively build a communication bridge between the Company and the public, enhancing scientific understanding of nuclear energy and nuclear safety.



开展“国和行·媒体行”活动

Launch of the "Guohe Tour · Media Tour" Initiative

2025年，公司充分发挥平台统筹优势，以“实地考察+专家座谈+互动体验”的创新形式，承接由生态环境部（国家核安全局）指导，生态环境部宣教中心和国家电力投资集团有限公司共同主办的“国和行·媒体行”活动，组织主流媒体深入核电产业链各环节，先后前往国核示范、山东核电、工程公司、国核设备、湛江核电、广西核电等单位，实地探访国家电投新能源科技馆、荣成核安全主题公园、“暖核一号”等重点场所，直观感受核电产业发展成效，在20余家中央主流媒体发稿超70篇。

In 2025, leveraging its platform coordination strengths, the Company hosted the "Guohe Tour · Media Tour" in an innovative format combining site visits, expert seminars, and interactive experiences. The event was guided by the Ministry of Ecology and Environment (National Nuclear Safety Administration) and co-organized by the Ministry's Publicity and Education Center and SPIC. Mainstream media representatives were taken through key segments of the nuclear power industry chain, visiting organizations including State Nuclear Power Demonstration Plant, SDNPC, SPIC Power Engineering, SNPEMC, State Nuclear Zhanjiang Nuclear Power Company Ltd., and State Nuclear Guangxi Nuclear Power Company Ltd. Participants conducted on-site inspections of major facilities such as the SPIC New Energy Science and Technology Museum, Rongcheng Nuclear Safety Theme Park, and Warm-U-Clear 1 project, gaining a firsthand understanding of nuclear power industry achievements. As a result, over 70 articles were published by more than 20 central mainstream media outlets.



承办多次核工业展览会

Hosting multiple nuclear industry exhibitions

2025年，公司统筹组织2025中国（烟台）国际核电工业及装备展览会、“绿色核能·核技术应用”（威海）博览会等展览展示工作，通过模型数字化演示与专业讲解，显著提升集团公司核能产业的品牌辨识度和整体形象。

In 2025, SPICIFH coordinated and organized the 2025 China International Nuclear Power Industry and Equipment Exhibition in Yantai, and the Green Nuclear Energy and Nuclear Technology Application Expo (Weihai). Through digital model demonstrations and professional presentations, these events significantly enhanced the Group's brand recognition and overall image in the nuclear energy sector.



核能科普进校园活动

Nuclear Energy Popularization Campus Activities

2025年，公司走进烟台市中小学校开展“核能科普进校园”活动。活动志愿者以生活化场景切入，通过科普动画播放、趣味大讲堂、智能互动、知识抢答等形式，通俗讲解核能本质、发电原理、安全优势等知识，展示我国核能发展成果，发放科普宣传品，鼓励学生分享知识、争做科普“小使者”。科普活动有效破除青少年对核能的认知误区，树立正确的核与辐射安全观，在青少年心中播下科学与绿色能源的种子，既激发了学生的科学探索热情，也助力普及绿色核能理念。

In 2025, SPICIFH entered primary and secondary schools in Yantai to carry out the "Nuclear Science on Campus" activity. Volunteers engaged students through relatable, real-life scenarios, using formats such as animated science videos, interactive lectures, smart engagement activities, and knowledge quizzes to explain the fundamentals of nuclear energy, power generation principles, and its safety advantages in an accessible manner. They also showcased China's nuclear energy achievements and distributed promotional materials, encouraging students to share their knowledge and become "junior science ambassadors." These activities effectively dispelled misconceptions about nuclear energy among young people, built a sound understanding of nuclear and radiation safety, and planted seeds of scientific curiosity and green energy values—igniting students' passion for exploration while promoting the vision of clean nuclear power.



赋能员工成长 Employee Empowerment

公司坚持以人才为核心，切实维护员工合法权益，全方位关爱员工身心健康与生活福祉，持续优化人才成长环境，充分激发员工潜能与创造力，携手员工共赴高质量发展新征程。

The Company places talent at the core of its development strategy. We safeguard employees' lawful rights, provide comprehensive care for their physical and mental well-being, and continually optimize the environment for talent development. By fully tapping into employees' potential and creativity, we advance together toward high-quality development.

保护员工权益

Employee rights protection

公司充分保障员工合法权益，为员工提供公平的就业机会和有竞争力的薪酬福利体系，畅通民主参与渠道，积极营造多元包容的工作氛围，构建和谐稳定的劳动关系，打造幸福职场生态。

We are committed to protecting the legitimate rights and interests of our employees. We offer fair employment opportunities and a competitive compensation and benefits system. Democratic participation channels are kept open, and a diverse and inclusive work environment is actively fostered, building harmonious and stable labor relations and cultivating a fulfilling workplace ecosystem.

公平就业

Equal employment

公司严格遵守《中华人民共和国公司法》《中华人民共和国劳动法》《中华人民共和国劳动合同法》等相关法律法规，制定《劳动合同管理办法》《招聘管理办法》等内部政策文件，坚决杜绝任何形式的强制劳动、雇佣童工等违规行为，公平公正地对待不同种族、性别、年龄、宗教信仰和文化背景的员工，为员工提供平等的发展机会和公平的就业条件。

We strictly comply with China's *Company Law, the Labor Law, the Labor Contract Law*, and other applicable laws and regulations. We have established internal policies such as the *Labor Contract Management Measures* and the *Recruitment Management Measures* to govern employment practices. Accordingly, we resolutely prohibit forced labor, child labor, and treat all employees fairly and equally regardless of race, gender, age, religious belief, or cultural background. Every candidate is ensured equal access to development opportunities and fair working conditions.

员工总数
4083人
4,083 employees in total

新招聘员工人数
429人
429 new hires

少数民族员工人数
189人
189 ethnic minority employees

员工流失率
1.30%
Employee turnover rate: 1.3%



员工结构 Employee structure

性别结构

By gender



■ 男性员工占比
Male

■ 女性员工占比
Female

学历结构

By educational background



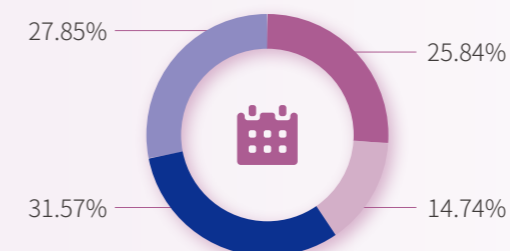
■ 硕士及以上学历员工占比
Master's degree or higher

■ 本科学历员工占比
Bachelor's degree

■ 专科学历及以下员工占比
Junior college or lower

年龄结构

By age



■ 28岁及以下
28 years old and under

■ 29-35岁
29-35 years old

■ 36-45岁
36-45 years old

■ 46岁及以上
46 years old and above

薪酬福利

Compensation and benefits

公司持续优化以岗位价值为核心、以绩效导向为主体的薪酬体系，健全激励和约束机制，充分激发员工的积极性和创造性。建立多层次福利保障体系，按期缴纳五险一金，为员工提供企业年金和补充医疗保险等福利，切实保障员工福祉。

We continuously optimize a compensation system centered on job value and driven by performance, while improving both incentive and restraint mechanisms. These efforts fully mobilize employees' enthusiasm and creativity. At the same time, we have established a multi-tiered benefits system. We contribute to statutory social insurance and housing funds on schedule, and provide additional benefits such as enterprise annuity and supplementary medical insurance. Through these measures, we effectively safeguard both the immediate and long-term interests of our employees.



员工体检覆盖率
100%
Employee health checkup coverage rate: 100%

社会保险覆盖率
100%
Social insurance coverage rate: 100%

民主管理

Democratic management

公司深化民主管理建设，依法设立工会组织，代表并组织员工参与企业民主管理；定期召开职工代表大会、工会会员代表大会，推动解决员工急难愁盼问题；建立常态化沟通渠道，鼓励员工主动建言献策，切实保障员工的知情权、参与权、表达权、监督权。

We continue to strengthen democratic management practices by establishing labor union organizations in accordance with the law, representing and organizing employees to participate in democratic management of our company. We regularly convene workers' congress and union member congresses to address employees' urgent concerns. In parallel, we maintain regular communication channels and encourage employees to actively provide suggestions and feedback. Through these efforts, we effectively safeguard employees' rights to information, participation, expression, and oversight.

助力员工发展

Employee development

公司重视员工发展，构建多元化人才培养体系，提供丰富多样的培训课程，打造广阔的职业发展平台与畅通的晋升通道，助力员工实现持续的职业成长与个人价值提升。

We place strong emphasis on employee development by building a diversified talent cultivation system. We offer a wide range of training programs, create broad career development platforms, and establish clear and accessible promotion pathways, supporting employees in achieving continuous professional growth and personal value enhancement.

加强人才培养

Strengthening talent development

新员工入职培训 New employee onboarding training

公司重视新员工培育工作，为新入职人员规划丰富的入职培训，内容涵盖企业文化浸润、核电基础知识、安全质量教育、素质拓展等，帮助员工快速融入企业、夯实专业基础。

We attach great importance to the development of new employees. Comprehensive onboarding programs are designed for new hires, covering corporate culture immersion, fundamental nuclear power knowledge, safety and quality education, and capability development activities. Through these programs, we help employees quickly integrate into the organization, build a solid professional foundation.



集团公司新员工入职启航培训在山东核电基地开营

Launch of the Group's new employee onboarding program at the SDNPC base



国核莱阳 2025 届新员工国和技术交流中心参观

Visit to the SPIC Technology Exchange Center by 2025 new employees of SPIC Laiyang



国电投核电技术服务有限公司入职启航 Onboarding program launch at SPIC Nuclear Technology Services Co., Ltd.

青年人才培养 Youth talent development

公司聚焦核电生产运维、安全质量、建安调试等领域，系统建设多领域青年骨干人才库，定期开展入库人才能力提升培训、“青马工程”培训，广泛开展岗位练兵、“党员先锋队”“青年突击队”“青年安全生产示范岗”等创先争优活动，培养并储备一批政治坚定、技术扎实、管理能力强、具备发展潜力的优秀青年专业技术人才，为公司可持续发展提供坚实的人才支撑。

We focus on cultivating young talent across key areas such as nuclear power O&M, safety and quality, construction, installation and commissioning. A multi-disciplinary talent pool of young professionals has been systematically established, with regular capability enhancement programs and "Young Marxist Project" training sessions conducted. At the same time, we organize a wide range of skill-building and excellence initiatives, including on-the-job training exercises, "Party Member Task Forces", "Youth Vanguard Teams", and "Youth Work Safety Demonstration Posts". Through these efforts, we have developed and reserved a cohort of outstanding young professionals with strong political commitment, solid technical expertise, robust management capabilities, and high development potential, providing sustained talent support for the Company's long-term development.



国电投核电技术服务有限公司 2025 年“青马工程”培训班 "2025 'Young Marxist Project' Training Course of SPIC Nuclear Power Technology Services Co., Ltd."

操纵员培训 Operator training

公司牵头各核电业主公司，建立操纵人员标准化培养体系，开发整套运行理论课程和模拟机课程，充分利用集团公司系统核电项目工程建设和机组调试资源优势，培养操纵人员发现问题、分析问题和解决问题的能力，全面提升操纵人员综合素质。

In collaboration with nuclear power operators, we have established a standardized training system for control room operators. This includes the development of comprehensive theoretical training modules and simulator-based curricula. Leveraging the Group's extensive experience in nuclear project construction and commissioning, we focus on enhancing operators' ability to identify, analyze, and resolve technical issues, thereby strengthening their overall professional competence.



公司操纵员技能培训 SPICIFH operator skills training

平台运营管理培训 Platform operation and management training

公司实施平台干部运营管理能力提升计划，开设系列专项培训课程，加速本部人员从业务能手向平台管理者转型。推动成立共享服务中心，集中承接事务性工作，保障各部门聚焦于政策研究、标准制定与模式创新。

We implement capability enhancement programs for platform management, offering a series of specialized training courses to accelerate the transition of headquarters staff from business specialists to platform managers. At the same time, we promote the establishment of shared service centers to centrally undertake transactional work. This enables each department to focus on policy research, standard setting, and model innovation.

领导力培训 Leadership training

公司针对岗位职责要求和不同层次、不同类别干部的特点，以思想政治、岗位专业知识和技能、管理技能为重点，并注重科学人文素养方面的教育，采用线上网络培训与线下脱产培训相结合的多元化培养模式，全面提升干部综合素养与履职能力。

In alignment with role-specific responsibilities and the diverse characteristics of managerial personnel at different levels and categories, we focus on enhancing political awareness, professional knowledge and skills, and management competencies. We also emphasize education in scientific and humanistic literacy. A diversified training model, integrating online learning with offline intensive off-job training, is adopted to comprehensively enhance leadership competence and performance.



2025 年公司核职业领导力专题培训班
2025 SPICIFH nuclear professional leadership training program

畅通发展通道

Unblocking career development pathways

公司以员工职业发展为导向，制定并完善《岗位聘任管理办法》《领导人员选拔任用管理办法》《集团公司核能运营平台标准岗位、薪酬体系方案》等专项制度，持续推进岗位与薪酬体系标准化建设，优化人力资源配置、强化干部人才梯队培养，充分激发全员创新创造活力。

To provide employees with clear career development paths, we have formulated management systems such as the *Measures for Position Appointment Management*, *Measures for the Selection and Appointment of Leadership Personnel*, and the *Standard Job and Compensation System for the Nuclear Energy Operation Platform of the Group*. Through these initiatives, we continue to advance the standardization of job positions and compensation systems. Human resource allocation is optimized, and the development of leadership and talent pipelines is strengthened. All these efforts fully stimulate innovation and creativity across the workforce.

年度培训投入

4555.38 万元

Annual training investment:
45.5538 million yuan

员工培训覆盖率

100%

100% employee training
coverage

员工人均培训时长

122.52 小时

Average training hours per
employee: 122.52 hours

保障职业健康

Occupational health

公司坚持将员工健康与安全置于首位，遵循《中华人民共和国安全生产法》《中华人民共和国职业病防治法》等法律法规要求，建立健全职业健康保障体系，全面落实职业健康管理责任制，致力于为员工营造健康、安全的工作环境，守护员工身心健康与职业安全。

We prioritize employee health and safety, adhering to China's *Work Safety Law*, the *Law on the Prevention and Control of Occupational Diseases*, and other relevant laws and regulations. A comprehensive occupational health protection system has been established, with clear responsibilities for occupational health management fully implemented. Our goal is to create a safe and healthy work environment, safeguarding both the physical and mental well-being and occupational safety of all employees.

健全职业健康管理体系

Advancing the occupational health management system

山东核电制定《职业卫生管理大纲》《职业健康管理》《工作适任性评价》《作业场所职业病危害因素检测管理》《现场急救管理》《医疗急救物资管理》《职业卫生档案管理》等管理程序，构建涵盖工作场所职业病危害因素监测、员工职业健康监护、现场急救的卫生健康管理体系。

SDNPC has developed management procedures including the *Occupational Hygiene Management Outline*, *Occupational Health Management*, *Work Fitness Assessment*, *Monitoring of Occupational Disease Hazards in Workplaces*, *On-site Emergency Management*, *Medical and First-Aid Supplies Management*, and *Occupational Health Record Management*. These procedures cover monitoring of occupational disease hazards in the workplace, employee health surveillance, and on-site emergency response, forming a robust occupational health management system.

加强危害因素识别及监测

Tightening hazard identification and monitoring

山东核电委托北京市职业病防治院对所有生产厂房开展全面的职业病危害因素识别和检测，并根据国家相关法规标准要求做出客观的评价，提出合理可行的建议，检测结果通过公司门户职业健康专栏、生产区公告栏等渠道向全体员工告知，保障员工知情权与健康权益。

SDNPC engages the Beijing Prevention and Treatment Hospital of Occupational Disease to conduct comprehensive hazard identification and monitoring across all production facilities. Objective evaluations and feasible recommendations are provided in line with national laws and standards. Monitoring results are communicated to employees through the company portal's occupational health section and production area bulletin boards, ensuring employees' right to information and health protection.

开展职业健康培训与宣传

Launching occupational health training and awareness sessions

国电投核电技术服务有限公司常态化开展全员职业健康培训，开设急救专项授课，并组织红十字会专家现场开展急救员取证培训，普及职业健康基础知识与防护技能。举办职业健康周活动，通过发放宣传材料、组织健康咨询、举办答题竞赛活动、组织微视频学习等多种形式，持续增强员工职业健康安全意识。

SPIC Nuclear Technology Services Co., Ltd. provides regular occupational health training for all employees, including specialized courses on first aid. It organizes certification training for first responders with experts from the Red Cross, promoting fundamental knowledge and protective skills in occupational health. During Occupational Health Week, the Company further raises employees' occupational health and safety awareness through distribution of educational materials, health consultations, quizzes, and micro-video learning activities.

完善职业健康保障

Enhancing occupational health safeguards

山东核电制定职业健康体检周期规划方案，组织员工参加职业健康体检，系统评估员工身体健康状况，并依据检查结果开展工作适任性评价，从源头防控职业健康风险。编制并发放《心理健康手册》，组织开展心理健康主题沙龙、团体辅导、家庭关系讲座及远程心理咨询服务，切实保障员工身心健康。

SDNPC has developed periodic occupational health check-up plans and organizes employees to undergo health assessments, systematically evaluating their physical condition. Work fitness assessments are conducted based on examination results to prevent occupational health risks at the source. Additionally, it has issued the *Mental Health Handbook* and organizes themed workshops, group counseling, family relationship lectures, and remote psychological consultation services, effectively safeguarding employees' physical and mental well-being.

关怀员工生活

Employee care

公司构建多维度员工关怀体系，持续深化“我为群众办实事”实践活动，解决员工关心关切问题，开展形式多样的文体活动，充实员工业余生活，营造温暖和谐的工作氛围，提升员工幸福感与归属感。

We build a multi-dimensional employee care system and continue to advance the "Serving the People with Concrete Actions" campaigns. We focus on addressing employees' urgent needs and concerns, while organizing a wide range of cultural and sports activities to enrich their lives outside of work. Through these efforts, we foster a warm and harmonious workplace atmosphere and enhance employees' sense of well-being and belonging.

关切员工需求

Addressing employee needs

公司坚持以员工需求为导向，积极协助员工申请高层次人才认证和政府生活补贴，同步落实发放公司购房补贴和生活补贴，精准施策解决员工实际困难。

We adopt an employee-centric approach and actively support employees in applying for high-level talent recognition and government living subsidies. At the same time, we provide company-sponsored housing and living allowances to address employees' practical needs in a targeted manner.

帮扶慰问员工

Offering employee assistance and care

公司深入开展春节、端午节等传统节日普惠性慰问，常态化开展春送健康、夏送清凉、冬送温暖等季节性关怀，同步推进能源保供专项慰问、困难职工慰问及劳动保护慰问等活动，传递组织关怀与温暖。

We carry out inclusive care initiatives during traditional festivals such as the Spring Festival and the Dragon Boat Festival. Seasonal care programs are regularly organized, including health support in spring, cooling initiatives in summer, and warmth provision in winter. In parallel, we implement targeted initiatives such as special support programs for energy supply assurance, assistance for employees in need, and labor protection programs, consistently conveying organizational care and support.

帮扶慰问员工

9594 人次

9,594 beneficiaries of employee assistance and care programs

帮扶员工投入

203.23 万元

2.0323 million yuan invested in employee assistance

春送健康
Wellness care in spring



夏送清凉
Heat relief in summer



冬送温暖
Winter care campaign



新春慰问
Spring Festival care initiatives



丰富员工生活
Enriching employee life

公司以重大节日活动为契机，策划三八妇女节、元宵节等主题活动，持续加强“我为青年做件事”实践活动，开展“核你相遇”青年联谊活动，组织乒乓球赛、篮球赛、台球赛、跳绳比赛、“健步同行，核力向前”健步走及采摘樱桃等一系列文体活动，倡导积极向上的生活方式。

We leverage major holidays as opportunities to organize themed activities, including International Women's Day and the Lantern Festival celebrations. We continue to advance the "Doing Practical Things for Youth" initiative and organize "Nuclear Encounters" networking events for young employees. In addition, we host a variety of cultural and sports activities, such as table tennis, basketball, billiards, rope skipping, the "Walk Together, Move Forward with Nuclear Energy" fitness walk, and cherry-picking events, to promote a positive and healthy lifestyle.



三八妇女节
International Women's Day activity



乒乓球比赛
Table tennis tournament



篮球比赛
Basketball tournament



青年联谊活动
Youth networking events



“健步同行，核力向前”健步走
“Walk Together, Move Forward with Nuclear Energy” fitness walk



采摘樱桃
Cherry-picking activity



参与员工思想动态调查人数

3989 人

3,989 employees participated in the sentiment survey

员工满意度

99.49%

Employee satisfaction rate: 99.49%



携手合作共赢 Win-Win Partnership

公司坚持合作共赢理念，聚焦打造可持续供应链，携手产业链上下游伙伴，共建互利共赢的产业生态。积极拓展多方合作交流渠道，促进技术交流与资源共享，共创核电事业的美好未来。

We uphold a win-win cooperation philosophy and focus on building a sustainable supply chain. By working closely with upstream and downstream partners, we foster a mutually beneficial industrial ecosystem. At the same time, we actively expand channels for collaboration and exchange, promoting technology sharing and resource integration to jointly advance the future of the nuclear power industry.

打造可持续供应链 Sustainable supply chains

公司持续推进责任采购体系建设，将环境保护、绿色低碳与社会责任深度融入供应链管理全流程，系统提升供应链的可持续性和韧性，为构建安全、可靠、可持续的供应链生态奠定坚实基础。

We continue to advance the development of a responsible procurement system. Environmental protection, green and low-carbon principles, and social responsibility are embedded throughout the entire supply chain management process. Through these efforts, we enhance the sustainability and resilience of the supply chain, laying a solid foundation for a secure, reliable, and sustainable supply chain ecosystem.



供应链制度体系

Supply chain management system

公司以集团公司制定的《国家电力投资集团有限公司供应链管理规定》作为纲领性制度，建立健全采购相关制度体系，构建覆盖承包商、供应商的全链条管理体系。2025年编制发布《供应商管理办法》《物资管理办法》等管理制度文件。

Guided by the *SPIC Supply Chain Management Regulations*, we have established and continuously improve procurement-related systems, building a full-chain management system that covers both contractors and suppliers. In 2025, we further strengthened this framework by issuing management policies such as the *Supplier Management Measures* and the *Materials Management Measures*.



深化供应商管理

Supplier management

公司聚焦供应商全生命周期管理，规范准入退出、日常监督、绩效评价等核心环节，建立覆盖采购、签约与履约的全过程动态评价机制，强化履约导向与过程管理。明确将环境管理体系认证、产品环保等级、本地化贡献等 ESG 因素纳入技术评分要素，引导供应商提升可持续发展能力。创新设立供应商信用修复机制，通过压缩信用修复处置周期，充分激发供应商积极性与责任感。

We focus on full lifecycle supplier management, standardizing key processes such as admission and exit, routine supervision, and performance evaluation. We have established a dynamic evaluation mechanism covering procurement, contracting, and contract execution, thereby reinforcing performance orientation and process management. We explicitly incorporate ESG factors, such as environmental management system certification, product environmental ratings, and localization contributions, into technical evaluation criteria, guiding suppliers to enhance their sustainability performance. At the same time, we introduce an innovative supplier credit repair mechanism. By shortening credit repair processing cycles, we effectively enhance supplier enthusiasm and accountability.



落实绿色采购

Green procurement

公司将环境与社会责任要求转化为可执行的评审标准与合同条款。对于依法非必须招标项目，优先选择具备本地化服务能力的供应商，兼顾区域协同发展。同时，严格执行国家节能减排政策，禁止采购列入淘汰目录的高耗能落后设备与产品，积极引领上下游合作伙伴共同迈向绿色、低碳、可持续发展的未来。

We translate environmental and social responsibility requirements into actionable evaluation criteria and contractual clauses. For projects where tendering is not legally required, we prioritize suppliers with local service capabilities to support regional coordinated development. At the same time, we strictly implement national energy conservation and emission reduction policies, prohibiting the procurement of high-energy-consuming, outdated equipment and products listed for elimination. Through these measures, we actively guide upstream and downstream partners toward a greener, low-carbon, and responsible development path.



供应链风险防控

Supply chain risk prevention and control

公司所有供应链管理相关活动均接受监督，加强采购全过程的规范管理，严格审核供应商财务状况、专业资质及关键人员能力，压实职能监督责任。

All supply chain management activities are subject to oversight to ensure compliance. We strengthen standardized management across the entire procurement process and conduct rigorous reviews of suppliers' financial indicators, professional qualifications, and key personnel capabilities, ensuring that supervisory responsibilities are fully implemented.



在库供应商

4236 家

4,236 suppliers included in the supplier base

按地区划分的供应商数量

境内 **4192** 家

Number of suppliers by region: 4,192 domestic suppliers and 44 overseas suppliers (including Hong Kong, Macao, and Taiwan)

境外（包括港澳台）**44** 家

新增供应商数量

401 家

401 new suppliers

供应商本地化比例

33.4%

Supplier localization ratio: 33.4%

本地化采购金额比例

11.82%

Proportion of localized procurement amount: 11.82%



加强多方合作

Multi-stakeholder collaboration

公司坚持开放合作导向，积极深化与政府、上下游企业、科研院所的沟通与协作，高效整合各方优势资源，凝聚发展合力，不断拓展互利共赢的合作新格局。

We maintain an open and cooperative approach, actively deepening communication and collaboration with government agencies, upstream and downstream enterprises, and research institutions. By efficiently integrating resources and consolidating development synergies, we continuously expand mutually beneficial and win-win cooperation opportunities.

校企合作

University-enterprise collaboration

山东核电与山东大学签署战略合作协议，召开深化合作专题研讨会，明晰潜在合作方向，建立常态化沟通机制，创新推行“技术需求双清单”管理模式，依托月度跟踪、动态更新，实现校企供需精准匹配与合作全流程管控，提升产学研融合质效。

SDNPC signed a strategic cooperation agreement with Shandong University and held a dedicated seminar to deepen collaboration, identifying potential project directions and establishing a routine communication and liaison mechanism. An innovative "dual technical demand list" management model has been implemented, enabling monthly tracking and dynamic updates. This approach ensures precise alignment between corporate technology needs and university research capabilities, while providing visualized oversight of cooperation progress, significantly enhancing the responsiveness, precision, and depth of industry-academia-research collaboration.

企企合作

Enterprise-to-enterprise collaboration

公司与国家核电正式签署《战略合作框架协议》并召开首次定期沟通会，围绕核安全管理、工程建设和全寿期运营协同、核能产业管控体系优化“回头看”等关键议题进行深入交流，达成多项重要共识，双方将围绕核安全管理、工程建设、运行维护等领域开展全方位合作，共同推动集团公司核能领域技术优势转化为发展优势，加速建设世界一流核能产业。



与国家核电 2025 年首次沟通会

2025 first communication meeting between SPICIFH and SNPTC

We officially signed the *Strategic Cooperation Framework Agreement* with SNPTC and convened the first regular communication meeting. The discussions focused on key topics including nuclear safety management, engineering construction, full-lifecycle operation coordination, and optimization reviews of the nuclear industry management system. Several important consensuses were reached. Moving forward, both parties will conduct comprehensive cooperation in areas such as nuclear safety management, engineering construction, and O&M, jointly transforming the Group's technical advantages in nuclear energy into development advantages and accelerating the construction of a world-class nuclear energy industry.

行业交流

Industry exchange

公司作为首批会员加入美丽海洋公益联盟，助力公司相关项目海岛使用技术评审、海洋生态保护等交流合作。“美丽海洋公益联盟”由中国海洋发展基金会发起，首批成员包括国内主要涉海企业、海洋公益组织、科研机构、事业单位等 54 家单位，着力构建开放、多元、高效的海洋公益协作平台。

As one of the first member units of the Beautiful Ocean Public Welfare Alliance, we support technical reviews for island use in related projects and promote collaboration in marine ecological protection and related fields. The Beautiful Ocean Public Welfare Alliance, initiated by the China Oceanic Development Foundation, includes 54 founding members such as major domestic marine-related enterprises, marine public welfare organizations, research institutions, and public institutions. The alliance aims to build an open, diverse, and efficient platform for marine public welfare collaboration.

助力行业发展

Industry development

公司积极发挥产业引领与协同作用，广泛搭建高水平行业交流平台，促进行业在技术创新、管理升级、标准建设等领域实现协同进步，推动核电事业高质量发展。

We actively leverage our role in industry leadership and coordination, creating high-level platforms for broad-based industry exchange. By promoting collaboration in areas such as technological innovation, management enhancement, and standards development, we facilitate coordinated progress across the sector and drive the high-quality development of the nuclear power industry.



成功举办 WANO AC 电力公司支持访问活动

Successfully hosting the WANO AC support visit

2025 年 6 月 17 日，公司主办的 WANO AC 电力公司支持访问活动顺利举行。本次活动特邀 WANO 中心专家团队莅临指导并分享前沿经验，围绕监督机制、风险管控、技术决策等议题展开深度研讨，通过国际经验与本土化实践的紧密结合，为运营标准化、领导效能提升及风险管理体系优化提供了重要参考。

On June 17, 2025, SPICIFH successfully hosted the WANO AC support visit. The event invited a team of experts from the World Association of Nuclear Operators (WANO) AC to provide guidance and share cutting-edge industry experience. In-depth discussions focused on oversight mechanisms, risk management, and technical decision-making. By closely integrating international best practices with local operational practices, the visit offered valuable insights for standardized operations, enhanced leadership, and optimized risk management systems.



举办 WANO AC 电力公司访问活动
WANO AC Visit organized by SPICIFH



圆满承办首届核电厂大修经验交流会

Successfully hosting the first NPP outage Experience Exchange Conference

2025 年 7 月 22 日，公司承办的首届核电厂大修经验交流会在烟台召开。本次会议为核能行业搭建了跨集团、跨基地、开放共享的大修经验交流平台，聚焦大修实践中的共性问题 and 前沿议题开展深入研讨，提炼形成可复制推广的良好实践方案，推动行业在标准规范、技术手段和管理方法上的共同进步，为核电厂大修工作的高质量发展注入了新的动能。

On July 22, 2025, SPICIFH successfully hosted the first NPP outage Experience Exchange Conference in Yantai. The event provided an open and shared platform for cross-group and cross-base exchange within the nuclear energy industry. Participants conducted in-depth discussions on common challenges and cutting-edge topics in outage practices, distilling replicable and scalable best-practice solutions. This initiative fosters coordinated progress in standards, technical methods, and management approaches, injecting new momentum into the high-quality development of NPP outage work.



核电厂大修经验交流会
NPP outage Experience Exchange Conference

未来展望

2026年是“十五五”规划开局之年，公司将坚持以习近平新时代中国特色社会主义思想为指导，全面贯彻党的二十大和二十届历次全会精神，深入落实集团公司“均衡增长战略”，以高质量发展为主题，以改革创新为动力，奋力开好局、起好步，迈向世界一流核能投资建设运营平台高质量发展新征程。

筑牢党建根基，完善治理机制。

坚持党的领导与现代企业制度深度融合，加快健全上市公司治理机制，优化战略实施体系，加快培育核能新质生产力，以党建赋能企业现代化治理提质增效。

压实安全责任，夯实发展基石。

聚焦群厂群堆“三化”管理目标，健全“三级贯通、三类协同”核安全责任体系，深化本质安全建设与经验反馈机制，确保在运机组稳定高效、在建项目安全优质，筑牢核安全生命线。

践行绿色转型，深化生态融合。

持续优化环境管理体系，严格把控污染物排放，加大核能综合利用力度，深化节能减排实践，加强与周边环境协同发展，充分发挥核能清洁低碳优势，助力能源结构优化，服务国家“双碳”战略大局。

厚植责任理念，共建美好家园。

关心员工成长与福祉，实现个人价值与企业发展同频共振，深化与地方政府、社区融合发展，推进项目共建、成果共享，主动参与乡村振兴与公益行动，传递核能温度，践行央企担当。

展望2026，公司将继续肩负使命、勇毅前行，踏上“十五五”新征程，夯实安全基础，强化创新驱动，全力打造安全、高效、绿色、创新的核能产业高地，为集团公司建设世界一流清洁能源企业贡献坚实力量！

Outlook

The year 2026 marks the opening of China's 15th Five-Year Plan period. Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, SPICIFH will fully implement the guiding principles of the 20th CPC National Congress and the Third and Fourth Plenary Sessions of the 20th CPC Central Committee. In line with the Group's "balanced growth strategy", we will focus on high-quality development as our guiding principle and leverage reform and innovation as our driving forces. We are determined to lay a strong foundation and make a robust start, Embarking on a New Journey of High-Quality Development Toward a World-Class Platform for Nuclear Energy Investment, Construction, and Operation.

Strengthening Party leadership and improving governance.

We are committed to deeply integrating Party leadership with modern corporate governance. We will accelerate the improvement of governance mechanisms for our listed companies and optimize the strategy implementation framework. At the same time, we will accelerate the development of new quality productive forces in nuclear energy. We will leverage Party leadership to enhance the quality and effectiveness of modern enterprise governance.

Reinforcing safety accountability to consolidate development foundations.

We will focus on the management goals of standardization, specialization, and centralization for our fleet of plants and reactors, and improve the nuclear safety responsibility system characterized by "three-tier integration and three-type coordination". By deepening intrinsic safety measures and strengthening experience feedback mechanisms, we will work to ensure the stable and efficient operation of active units and the safe and quality progress of projects under construction, thereby solidifying the nuclear safety lifeline.

Advancing green transition to deepen ecological integration.

We will continue to improve environmental management systems, strictly control pollutant emissions, and expand the integrated utilization of nuclear energy. At the same time, we will deepen energy conservation and emission reduction efforts and strengthen coordination with surrounding ecosystems. These initiatives will fully leverage the clean and low-carbon advantages of nuclear energy, support energy structure optimization, and contribute to China's carbon peaking and carbon neutrality goals.

Fostering a strong sense of responsibility to build better communities together.

We will prioritize employee growth and well-being, enabling personal development to align with corporate progress. At the same time, we will deepen collaboration with local governments and communities, advancing joint project development and shared outcomes. We will actively participate in rural vitalization and public welfare initiatives, delivering the social value of nuclear energy while fulfilling the responsibilities of a central SOE.

Looking ahead to 2026, SPICIFH will remain mission-driven and resolute as we embark on a new journey under the 15th Five-Year Plan. By reinforcing safety foundations and strengthening innovation-driven development, we are committed to building a safe, efficient, green, and innovative nuclear energy powerhouse, contributing robustly to the Group's vision of becoming a world-class clean energy enterprise.

专家点评

《国家电投集团产融控股股份有限公司 2025 年 ESG 报告》系统呈现了公司作为国家电投集团核能投资建设运营平台，将 ESG 理念深度融入战略与运营的实践成果，充分体现出企业以责任引领发展、以行动践行使命的可持续发展智慧。

报告围绕治理、安全、绿色、和谐四大维度，清晰披露了公司在完善治理体系、坚守核安全底线、推动绿色低碳发展、共享发展成果等方面的具体举措与亮眼实绩，信息详实、维度全面，彰显了电投产融在经济效益、环境效益与社会效益上的协同发展。

希望电投产融以本份报告为新起点，持续提升 ESG 信息披露的深度与广度，深化与各利益相关方沟通交流，以更高标准打造核能行业 ESG 价值典范，在推动能源革命、服务国家战略中持续彰显价值。

国家核应急协调专家委委员
左跃

《国家电投集团产融控股股份有限公司 2025 年 ESG 报告》作为公司合并重组后的首份 ESG 发展成果，充分展现出电投产融立足集团核能投资建设运营平台定位，心怀“国之大者”的责任担当与发展格局，在以 ESG 理念引领核电高质量发展、赋能清洁能源转型、共享发展成果方面，发挥了核能行业标杆表率作用。

报告中可见，电投产融始终将核安全奉为最高信条，坚守安全生命线，以完善的管理体系、创新的技术手段筑牢全生命周期安全屏障，用零安全事故的实绩践行“核安全至高无上”理念。同时，公司深耕绿色发展，以核电清洁发电的硬核实绩助力“双碳”目标，将环保责任落到实处，更以员工关怀、公益践行等行动实现企地和谐、多方共赢，让核能发展的红利更好惠及社会。

期待电投产融未来持续以高标准深化 ESG 实践，以创新驱动核能事业提质升级，为国家能源安全和绿色转型贡献更多力量。

《可持续发展经济导刊》社长兼主编
于志宏

Expert Opinions

The 2025 ESG Report of SPICIFH systematically presents the company's practical achievements as a nuclear energy investment, construction and operation platform in integrating ESG concepts into its strategy and operations. It reflects the company's commitment to responsible and mission-driven sustainable development.

Structured around the four dimensions of governance, safety, green development and harmony, the report clearly discloses the company's specific measures and strong performance in improving its governance system, upholding nuclear safety as a fundamental principle, promoting green and low-carbon development, and sharing development outcomes. With detailed information and comprehensive coverage, the report highlights SPICIFH's coordinated development of economic, environmental and social value.

It is expected that SPICIFH will take this report as a new starting point, further enhance the depth and breadth of ESG disclosure, strengthen engagement with stakeholders, set a higher ESG benchmark for the nuclear energy industry, and continue to demonstrate its value in advancing the energy transition and supporting national strategies.

Zuo Yue
Member of the Expert Committee of the National Nuclear Emergency Coordination Committee

As the first ESG report released by SPICIFH following its merger and restructuring, this Report demonstrates the company's role as the Group's platform for nuclear energy investment, construction and operation. It reflects a strong sense of responsibility and strategic vision aligned with national priorities, and sets a benchmark in the nuclear energy sector by leveraging ESG principles to drive high-quality nuclear power development, support the clean energy transition, and share development outcomes.

As demonstrated in the report, SPICIFH has consistently regarded nuclear safety as its top priority and prioritized safety in all aspects of its operations. It has established a comprehensive, full-lifecycle safety management system through robust governance and technological innovation, and upheld the principle of "nuclear safety above all" with a record of zero safety incidents.

Meanwhile, the company remains committed to green development, contributing to carbon peaking and carbon neutrality goals through clean nuclear power generation and effectively translating environmental commitments into measurable actions. Furthermore, it promotes harmonious development between the company and local communities while delivering shared value for all stakeholders through employee care and public welfare initiatives.

It is expected that SPICIFH will continue to advance ESG practices with high standards, drive the upgrading of the nuclear energy industry through innovation, and make greater contributions to national energy security and the green transition.

Yu Zhihong
President and Editor-in-Chief, China Sustainability Tribune

责任绩效

指标	单位	2025 年
治理		
总资产	亿元	1394.06
营业额	亿元	114.31
纳税总额	亿元	20.84
利润总额	亿元	51.49
董事人数	人	9
独立董事	人	3
商业贿赂及贪污事件发生数量	起	0
安全		
二级以上核事件	起	0
一般及以上等级安全生产事故	起	0
死亡人数	人	0
重伤人数	人	0
火灾事故	起	0
超剂量照射事故	起	0
内污染事件	起	0
安全生产投入总额	万元	17815.53
环境		
环保节能相关投入	万元	14658.35
年度核电机组发电量	亿千瓦时	202.39
范围 1- 直接温室气体排放产生的二氧化碳当量	万吨	347.86
范围 2- 间接温室气体排放产生的二氧化碳当量	万吨	1.98
重大环境污染事故	起	0
新建项目环评通过率	%	100
员工参与环保培训	人次	2492
非放射性生产废水排放量	万吨	894.65
污水排放达标率	%	100
一般固体废弃物产生量	万吨	81.01
危险废弃物产生量	吨	87.43
淡水耗水量	万吨	128.85

指标	单位	2025 年	
社会			
员工总数	人	4083	
女性员工人数	人	756	
男性员工人数	人	3327	
性别结构	男性员工占比	%	81.48
	女性员工占比	%	18.52
学历结构	硕士及以上学历员工占比	%	15.77
	本科学历员工占比	%	66.60
	专科学历及以下员工占比	%	17.63
年龄结构	28 岁及以下	%	25.84
	29-35 岁	%	14.74
	36-45 岁	%	31.57
	46 岁及以上	%	27.85
少数民族员工人数	人	189	
员工流失率	%	1.30	
新招聘员工人数	人	429	
年度培训投入	万元	4555.38	
员工培训覆盖率	%	100	
员工人均培训时长	小时	122.52	
员工体检覆盖率	%	100	
社会保险覆盖率	%	100	
乡村振兴投入资金	万元	557.82	
公益支出总额	万元	371.39	
全年开展公益项目	项	94	
员工参与志愿服务	人次	945	
员工参与志愿服务时长	小时	3281	
在库供应商	家	4236	




Key Performance Indicators

Indicator	Unit	2025
Governance		
Total assets	million yuan	139.406
Revenue	million yuan	11.431
Total tax payment	million yuan	2.084
Total profits	million yuan	5.149
Number of directors	headcount	9
Number of independent directors	headcount	3
Number of commercial bribery and corruption incidents	---	0
Safety		
Number of level-2 or above incidents defined in the International Nuclear and Radiological Event Scale	---	0
General or major safety accidents	---	0
Work-related fatalities	Headcount	0
Serious workplace injuries	Headcount	0
Fire accidents	---	0
Overdose irradiation accident	---	0
Internal pollution incidents	---	0
Total investment in work safety	million yuan	178.1553
Environmental		
Investments related to environmental protection and energy conservation	million yuan	146.5835
Annual power generation from nuclear power units	TWh	20.239
Scope 1 GHG emissions	10,000 tons	347.86
Scope 2 GHG emissions	tons	19800
Major environmental accidents	---	0
Approval rate for environmental impact assessments of new projects	%	100
Participants in environmental protection training for employees	headcount	2,492
Non-radioactive industrial wastewater discharged	10,000 tons	894.65
Sewage compliance discharge rate	%	100
General solid waste generated	10,000 tons	81.01
Hazardous waste generated	ton	87.43
Freshwater use	10,000 tons	128.85

Indicator	Unit	2025	
Social			
Total employees	headcount	4,083	
Female employees	Headcount	756	
Male employees	headcount	3,327	
By gender	Male	%	81.48
	Female	%	18.52
By educational background	Master's degree or higher	%	15.77
	Bachelor's degree	%	66.60
	Junior college or lower	%	17.63
By age	28 years old or younger	%	25.84
	29-35 years old	%	14.74
	36-45 years old	%	31.57
	46 years old or older	%	27.85
Employees from ethnic minorities	Headcount	189	
Employee turnover rate	%	1.30	
New hires	headcount	429	
Annual training investment	million yuan	45.5538	
Employee training coverage rate	%	100	
Average training hours per employee	hour	122.52	
Employee health check-ups coverage rate	%	100	
Social insurance coverage rate	%	100	
Investment in rural vitalization	10,000 yuan	557.82	
Philanthropic investment	10,000 yuan	371.39	
Philanthropic projects launched in 2025	---	94	
Employee participations in volunteering service	headcount	945	
Volunteer service hours	hour	3,281	
Suppliers included in the supplier base	---	4236	

指标索引

深圳证券交易所指引议题索引

维度	序号	议题	对应条款	页码 / 备注
 环境	1	应对气候变化	第二十一条至第二十八条	P49-52
	2	污染物排放	第三十条	P61-62
	3	废弃物处理	第三十一条	P59-61
	4	生态系统和生物多样性保护	第三十二条	P63-64
	5	环境合规管理	第三十三条	P53-54
	6	能源利用	第三十五条	P56-57
	7	水资源利用	第三十六条	P58
	8	循环经济	第三十七条	P60-62
 社会	9	乡村振兴	第三十九条	P67-68
	10	社会贡献	第四十条	P69-70
	11	创新驱动	第四十二条	P41-45
	12	科技伦理	第四十三条	不适用
	13	供应链安全	第四十五条	P81-82
	14	平等对待中小企业	第四十六条	P28
	15	产品和服务安全与质量	第四十七条	P31-40
	16	数据安全与客户隐私保护	第四十八条	P45-46
 可持续发展 相关治理	17	员工	第五十条	P73-80
	18	尽职调查	第五十二条	P82
	19	利益相关方沟通	第五十三条	P15-16
	20	反商业贿赂及反贪污	第五十五条	P27-P28
	21	反不正当竞争	第五十六条	P27-28

Indicators Index

Self-Regulatory Guidelines No. 17 for Companies Listed on Shenzhen Stock Exchange— Sustainability Report (For Trial Implementation)

Dimension	No.	Topics	Article	Page / remarks
 Environmental	1	Climate response	Articles 21-28	P49-52
	2	Pollutant discharge	Article 30	P61-62
	3	Waste disposal	Article 31	P59-61
	4	Ecosystem and biodiversity protection	Article 32	P63-64
	5	Environmental compliance management	Article 33	P53-54
	6	Energy utilization	Article 35	P56-57
	7	Water resources utilization	Article 36	P58
	8	Circular economy	Article 37	P60-62
 Community	9	Rural revitalization	Article 39	P67-68
	10	Social contributions	Article 40	P69-70
	11	Innovation	Article 42	P41-45
	12	Ethics of science and technology	Article 43	Inapplicable
	13	Supply chain security	Article 45	P81-82
	14	Equal treatment of SMEs	Article 46	P28
	15	Product and service safety and quality	Article 47	P31-40
	16	Data security and customer privacy	Article 48	P45-46
 Sustainability-related governance	17	Employees	Article 50	P73-80
	18	Due diligence	Article 52	P82
	19	Stakeholder engagement	Article 53	P15-16
	20	Anti-commercial bribery and anti-corruption	Article 55	P27-P28
	21	Fair competition	Article 56	P27-28

意见反馈表

尊敬的读者：

您好！感谢您阅读《国家电投集团产融控股股份有限公司 2025 年环境、社会及治理（ESG）报告》，我们非常重视并希望您能够对本报告作出评价，并提出您的宝贵意见。我们将认真对待您的意见和建议，作为持续推进社会责任 /ESG 管理与实践的重要依据。

您的身份是：

- 客户 投资者 政府 员工 合作伙伴 环保机构
 社区 媒体 同行 其他

选择性问题：

1. 您认为本报告是否能反映电投产融对经济、社会和环境的影响？

- 是 一般 否

2. 您认为本报告披露的信息、指标是否完整、准确和清晰？

- 是 一般 否

3. 您认为本报告的总体框架、内容编排和设计形式是否方便阅读？

- 是 一般 否

4. 您认为本报告中能否方便地找到您所关注的信息或议题？

- 是 一般 否

5. 综合各方面，本报告给您的整体印象是？

- 很好 较好 一般 较差 很差

开放性问题：

6. 您认为还有哪些您关注的信息未在本报告中披露？

7. 您对本报告和公司今后发布环境、社会及治理报告有何意见或建议？

Feedback Sheet

Dear readers,

Thank you for reading the *2025 Environmental, Social, and Governance Report of SPIC Industry-Finance Holdings Co., Ltd.* We highly value your feedback and sincerely invite you to evaluate this report and share your valuable suggestions. We will thoughtfully review this feedback to guide the ongoing enhancement of our social responsibility and ESG performance.

Your identity is:

- Customer Investor Government Employee Partner Environmental protection organization
 Community Media Peer Others

Multiple-choice questions:

1. Does this report reflect the significant impact of SPICIFH on the economy, society, and environment?

- Yes General No

2. Are the information and indicators disclosed in this report complete, accurate, and clear?

- Yes General No

3. Are the overall framework, content arrangement, and design form of this report readable?

- Yes General No

4. Is it convenient to find the information or topics you are concerned about in this report?

- Yes General No

5. What is your overall impression of this report?

- Very good Good General Poor Very poor

Open questions:

6. What other information of concern to you was not disclosed in this report?

7. Do you have any comments or suggestions on this report or the Company's future ESG reports?

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