

吉林电力股份有限公司 JILIN ELECTRIC POWER CO.LTD.

**2024年度环境、社会及公司治理(ESG)报告** Environmental, Social and Governance Report

建设世界一流清洁能源上市公司

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股票代码:000875

深圳证券交易所发行上市

# 关于本报告

About this report

#### 报告简介

吉林电力股份有限公司(简称"吉电股份")发布《吉林电力股份有限公司2024年度环境、社会及公司治理(ESG)报告》(以下简称"本报告")。本报告主要披露公司报告期内在公司治理、环境保护、社会责任、创新发展等方面的管理措施和成效。

#### 报告编制依据

《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》

国务院国资委《央企控股上市公司 ESG 专项报告参考指标体系》

全球报告倡议组织《可持续发展报告标准》(GRI)

中国社会科学院《中国企业社会责任报告编写指南 (CASS-ESG5.0)》

联合国可持续发展目标(SDGs)

#### 时间范围

本报告披露时间范围为 2024 年 1 月 1 日至 2024 年 12 月 31 日,为保证报告数据连续可比性,部分内容超出时间范围。

# 信息来源

除特殊说明之外,本报告所引用的信息与数据均来源于 本公司的正式文件、统计报告、财务报告或有关公开文件。 吉电股份承诺本报告内容不存在虚假记载、误导性陈述 或重大遗漏,董事会对报告内容的真实性、准确性负责。

#### Introduction

Jilin Electric Power Co., Ltd. ("Jilin Electric Power") has released the "Jilin Electric Power 2024 Environmental, Social, and Governance Report" ("the Report"). The Report primarily discloses the Company's management measures and achievements during the reporting period in areas such as corporate governance, environmental protection, social responsibility, and innovative development.

# **Basis of preparation**

"Guidelines for Self-Regulatory Supervision of Listed Companies on the Shenzhen Stock Exchange No. 3 - Preparation of Sustainable Development Reports"

SASAC's "Special ESG Report Reference Indicator System for Central Listed Companies"

GRI's "Sustainability Reporting Standards"

Chinese Academy of Social Sciences' "Guidelines on Corporate Social Responsibility Reporting for Chinese Enterprises (CASS-ESG5.0)"

United Nations Sustainable Development Goals (SDGs)

# Reporting period

The reporting period for this report covers from January 1, 2024, to December 31, 2024. To maintain data continuity and comparability, certain content extends beyond this period.

#### Data source

Unless otherwise indicated, all information and data cited in the Report originate from the Company's official documents, statistical reports, financial reports, or relevant public materials. Jilin Electric Power guarantees that the content of the Report contains no false records, misleading statements, or significant omissions. The Board of Directors assumes responsibility for the authenticity and accuracy of the Report's content.

#### 汇报原则

本报告遵循重要性、量化、平衡和一致性的汇报原则。

### 称谓说明

为便于表述,本报告中的"吉电股份""我们""公司" 均指代"吉林电力股份有限公司"。

#### 报告获取

本着环境友好原则,我们减少纸质版报告印刷。您可以 在吉林电力股份有限公司官方网站上下载本报告的电子 文稿。

### 报告批准

本报告经管理层确认后,于 2025 年 4 月 25 日获董事会 审议通过。

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### Reporting principles

The Report follows the principles of materiality, quantification, balance and consistency in reporting.

### Title explanation

For ease of reference, "Jilin Electric Power", "we", and "the Company" in the Report all refer to "Jilin Electric Power Co., Ltd"

### Access to the report

In line with our commitment to environmental sustainability, we have minimized the printing of paper copies. You are welcome to download the electronic version of the Report from the official website of Jilin Electric Power.

# Report approval

The Report was approved by the Board of Directors on April 25, 2025, following confirmation by management.

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# 董事长致辞

Message from the Chairman

2024年,是吉电股份经营发展取得显著成绩的一年。一年来,公司深入学习贯彻习近平新时代中国特色社会主义思想,全面贯彻落实党的二十大和二十届三中全会精神,聚焦国家电投"均衡增长战略",坚持"存量提质、增量做优、蓄势未来",公司规模、效益实现历史性跨越,为"十四五"圆满收官描绘了浓墨重彩的一笔,也为"十五五"良好开局奠定了坚实基础。

这是经营业绩再创新高的一年。一年来,公司整体经营稳中有进、进中提质,全方位提升价值创造能力。深入开展"一分钱行动",围绕电量结构优化、绿电绿证交易、供热价格调增、燃料成本控制、主动资产管理等方面持续发力,提质增效成效显著,全年完成利润总额 19.98 亿元,同比增长 5.27%;归母利润完成 10.99 亿元,同比增长 21.04%,再创历史新高。圆满完成向特定对象发行股票工作,募集资金总额 42.52 亿元,创国内资本市场年度竞价发行最大规模融资,有力支撑公司后续发展。

这是发展质量显著提升的一年。公司自觉将自身高质量发展放到践行能源安全新战略大局中统筹考量,深入贯彻落实国家电投"均衡增长战略",聚焦"新能源+"、绿色氢基能源双赛道,以高水平"均衡"推进高质量发展。坚持吉林省区域引领、N个区域并进的"1+N"发展策略,全力打造一批具有核心竞争力的"新能源+"产业集群。白城二期2×66万千瓦火电机组,从提交项目核准申请到获得吉林省发改委批复,仅用时17天,创吉林省核准用时最短纪录。山东潍坊基地项目一次性取得130万千瓦接入系统批复,首期18万千瓦光伏已并网发电,是公司在鲁单体规模最大的基地项目。贵州纳雍基地项目获取150万千瓦风电指标,是公司在黔首个基地项目。制定绿色氢基能源"三三三"发展策略,加快绿色氢基能源平台建设,全面提升"投资、开发、建设、技术、创新、运营"六大核心能力。大安风光制绿氢合成氨一体化示范项目电网接入方案获得批复,已实现机械竣工,开始分部试车,入选国资委"百大工程"。

这是公司治理持续加强的一年。公司持续推进管理模式和组织体系优化,全面厘清职责定位、管理界面和权责划分,构建相互协调与制约的工作机制,运行质效不断提升。立足绿色氢基能源平台定位,强化顶层设计,引进高素质人才,着力提升专业化管理能力。深入学习贯彻落实习近平总书记关于党的建设、党的自我革命的重要思想,坚持用改革精神和严的标准,全面加强党建工作,筑牢高质量发展的"根"和"魂"。深入践行 ESG 理念,公司在万得 ESG 评级中被评为"AA"级;连续两年荣获中国上市公司协会"上市公司投资者关系管理最佳实践""上市公司董事会优秀实践案例"奖项;荣获"2024中国企业 ESG 优秀案例"等多项荣誉。

这是诠释责任彰显担当的一年。公司积极履行社会责任,对外捐赠 235 万元,对延边州珲春市马川子乡依力村等开展帮扶工作,赢得社会的普遍认可。能源保供坚实有力,圆满完成重要时段、重点地区保供任务,有力发挥顶梁柱、压舱石作用。公司积极主动践行习近平生态文明思想,公司本部、所管单位办公楼宇(涵盖生产与行政区域)及全部发电厂站用电已基本实现绿色电力全覆盖,为企业的绿色转型提供央企范例。

奋楫扬帆风正劲,勇立潮头逐浪高。公司坚持以习近平新时代中国特色社会主义思想为指导,完整准确全面贯彻新发展理念,始终坚持"红"的信念,大力弘扬"创"的精神、"闯"的劲头、"干"的作风,一心一意谋发展,聚精会神搞建设,凝心聚力向未来,奋力开创新时代吉电股份高质量发展新局面。

In 2024, Jilin Electric Power made significant strides in its operations and development. Over the past year, the Company has thoroughly studied and implemented Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, and fully embraced the spirit of the 20th National Congress of the Communist Party of China and the Third Plenary Session of the 20th Central Committee. Focusing on a SPIC "balanced growth strategy" and adhering to the principles of "enhancing quality in existing operations, optimizing new growth, and gearing up for the future", the Company achieved historic breakthroughs in both scale and profitability, which has added a significant chapter to the successful conclusion of the 14th Five-Year Plan and laid a solid foundation for a robust start to the 15th Five-Year Plan.

This year marks a new high in operational performance. Over the past year, the Company has seen steady progress in its operations with improved quality, enhancing our capability to create value across various dimensions. We intensified efforts through the "One Cent Initiative", focusing on optimizing the power structure, green electricity and green certificate trading, heating price adjustments, fuel cost control, and proactive asset management. These efforts led to significant improvements in quality and efficiency, achieving an annual total profit of RMB 1.998 billion, a year-on-year increase of 5.27%. The net profit attributable to shareholders reached RMB 1.099 billion, a year-on-year increase of 21.04%, setting a new historical record. We successfully completed a targeted stock issuance, raising a total of RMB 4.252 billion. This was the largest competitive offering in the domestic capital market for the year, providing a strong support for the Company's future development.

This year marks a significant improvement in development quality. The Company is committed to aligning its high-quality growth with the broader objectives of the new energy security strategy. By deeply implementing the SPIC "balanced growth strategy", we focus on the development of "New Energy+" and green hydrogen-based energy, and aim for promoting high-quality development through high-level "balance". Following the "1+N" development strategy, which emphasizes regional leadership in Jilin Province alongside progress in multiple other areas, we are dedicated to establishing a number of "New Energy+" industrial clusters with core competitiveness. The Baicheng Phase II project, featuring 2 × 660,000 kW thermal power units, set a record for the shortest approval time in Jilin Province. It took only 17 days from submitting the project approval application to receiving the reply from the Jilin Provincial Development and Reform Commission. The Shandong Weifang Base project received a one-time approval for a 1.3 million kW grid connection system. The first phase, with 180,000 kW of solar power, is already connected to the grid and generating electricity, making it the Company's largest single-unit base project in Shandong. The Guizhou Nayong Base project secured a wind power quota of 1.5 million kW, which is the Company's first base project in Guizhou. We have developed a "Three-Three-Three" strategy for green hydrogen energy to accelerate the establishment of a green hydrogen energy platform and comprehensively enhance our six core capabilities: investment, development, construction, technology, innovation, and operation. The Da'an project's grid connection plan has been approved, and the project has reached mechanical completion and begun sectional testing. Additionally, it has been listed among the "Top 100 Projects" by SASAC.

This year marks a continuous improvement in corporate governance. The Company has made continuous efforts to optimize its management model and organizational system, clearly defining roles, management interfaces, and the division of powers and responsibilities. This has led to the establishment of a work mechanism characterized by mutual coordination and checks and balances, continuously improving operational quality and efficiency. Focusing on the development of a green hydrogen energy platform, we are committed to enhancing our top-level design, introducing high-quality talents and improving our specialized management capabilities. We have thoroughly studied and implemented President Xi Jinping's important thoughts on Party building and self-reform, adhering to a reformative spirit and strict standards to comprehensively strengthen Party building efforts, thereby solidifying the "root" and "soul" of high-quality development. In aligning with ESG principles, the Company has achieved an "AA" rating in the Wind ESG rankings; for two consecutive years, it has won the China Listed Companies Association awards for "Best Practices in Investor Relations Management" and "Outstanding Practice Cases of Boards of Directors". We also received multiple honors, such as the "2024 China Enterprise ESG Outstanding Case".

This year marks a dedication to exemplifying responsibility and demonstrating commitment. The Company has actively fulfilled its social duties by donating RMB 2.35 million, providing aid to communities such as Yili Village in Machuanzi Town, Hunchun, Yanbian. These efforts have garnered widespread recognition from society. The energy supply has been reliably and effectively secured, successfully meeting supply assurance objectives during critical periods and in key regions, thus serving a pivotal role and stabilizing force. We actively implement Xi Jinping Thought on Ecological Civilization. Our headquarter, managed facilities (including both production and administrative areas), and all power plants have nearly achieved full green electricity coverage.

Paddling with determination and sailing with favorable winds, we are courageously leading at the forefront. Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, the Company fully and faithfully implements the new development philosophy. We steadfastly uphold our "red" convictions, vigorously promote a spirit of "innovation", a pioneering attitude of "daring", and a work ethic of "dedication". Focusing on growth with unwavering dedication to development, we unite our efforts for the future, aiming to usher in a new era of high-quality development.



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Company Profile

吉电股份是国家电投实控的上市公司, 股票代码 "000875",是国家电投8家大一类企业之一,也是国 家电投绿色氢基能源平台。主要业务涉及发电(风电、 太阳能、水电、火电、分布式能源、气电、生物质、核能)、 供热(民用、工业)、绿色氢基能源、综合智慧能源供应、 清洁能源投资开发、电站检修、科技项目研发、配售电等。

公司秉承"创新、协调、绿色、开放、共享"五大发展 理念,打造了东北、西北、华东、华中、华北、山东6 个区域新能源平台,开创了绿色氢基能源新产业。截至 2024年12月末,公司资产总额829.64亿元,装机容量 1,444.11万千瓦,其中,清洁能源装机 1,114.11万千瓦, 占比 77%。

公司以习近平新时代中国特色社会主义思想为指导,完 整、准确、全面贯彻新发展理念,深入践行"四个革命、 一个合作"能源安全新战略,贯彻落实国家电投"均衡 发展战略",聚焦"新能源+"、绿色氢基能源双赛道, 全面提升"投资、开发、建设、技术、创新、运营"六 大核心能力,建设世界一流清洁能源企业(上市公司)。

Jilin Electric Power (Stock code: 601038) is a publicly listed company controlled by State Power Investment Corporation (SPIC), one of the eight major Category A enterprises within SPIC and serves as SPIC's green hydrogen energy platform. The Company's main business areas include power generation (including wind, solar, hydroelectric, thermal, distributed energy, gas, biomass, nuclear energy), heating services (for both residential and industrial needs), green hydrogenbased energy, integrated smart energy supply, clean energy investment and development, power plant maintenance, technological project research and development, and power distribution and sales.

Adhering to the principles of "innovation, coordination, greenness, openness, and sharing", the Company has established six regional new energy units across Northeast China, Northwest China, East China, Central China, North China, and Shandong, pioneering the development of a novel green hydrogen energy industry. As of the end of December 2024, the Company's assets totaling RMB 82.964 billion, with an installed capacity of 14.4411 million kW, among which 11.1411 million kW comes from clean energy, accounting for 77% of the total.

Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, the Company fully embraces and implements the new development concepts. It is committed to the new energy security strategy known as "Four Revolutions, One Cooperation" and adheres to the "balanced development strategy". Focusing on the development of "New Energy+" and green hydrogen-based energy, we are committed to fully enhancing our six core capabilities: investment, development, construction, technology, innovation, and operation, striving for a world-class clean energy enterprise (publicly listed).

829.64

**1,114.11** 万千瓦 清洁能源装机

1,444.11

区域新能源基地

东北、西北、华东、华中、华北、山东

### 愿景使命 Visionary and mission

奉献绿色能源 打造低碳生活 Dedicating to green energy and fostering a low-carbon lifestyle

### 战略定位 Strategic positioning

聚焦"新能源+"、绿色氢基 能源双赛道

Focus on the dual tracks of "New Energy+" and green hydrogenbased energy

#### 工作作风 Work ethic

精、细、严、实

Precision, meticulousness, strictness, and practicality

### 战略目标 Strategic goal

建设世界一流清洁能源上市公司 Building a World-Class Clean Energy Listed Company

# 企业精神

"红"的信念

Belief in "red"

"创"的精神

Spirit of "innovation"

"闯"的劲头

Pioneering attitude of "daring"

"干"的作风

Work ethic of "dedication"

### 价值理念 Core values

绿色发展、服务公众

Commitment to green development and public service

诚信为本、合作共赢

Upholding the integrity and win-win cooperation



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# 发展历程

Development history



### 火电快速发展阶段(2002-2011年)

2002年上市初期,公司总装机只有85万千瓦。2005年进入国家电投后,抓住"上大压小"契机,大力发展火电。到2011年末,装机规模增至328.3万千瓦,较上市之初翻两番,全省装机占比升至14.24%。

# 新能源"走出去"发展阶段 (2012-2020 年)

2012年开始,吉林省电力市场持续低迷、燃料价格高涨,公司经营出现亏损。为摆脱上述困境,公司经过分析研讨后,将新能源作为发展方向,大力实施"走出去"发展战略,全国化发展新能源。到 2019年,新能源装机规模达 340.15 万千瓦,占比 50.76%,历史性超越火电,成为公司转型发展的里程碑。

# **1** Panid

# Rapid development phase of thermal power (2002-2011)

At its initial public offering in 2002, the Company had a total installed capacity of just 850,000 kW. After joining SPIC in 2005, the Company leveraged the initiative of "building large units and shutting down small ones" to aggressively expand its thermal power capabilities. By the end of 2011, the installed capacity had increased to 3.283 million kW, quadrupling the capacity since its listing. The Company's share of the province's total installed capacity rose to 14.24%.

# Phase of "going global" in new energy development (2012-2020)

Since 2012, with the ongoing downturn in Jilin Province's power market and soaring fuel prices, the Company began experiencing losses. To overcome these challenges, the Company decided to focus on new energy as its development direction after careful analysis and discussion, aggressively pursuing a "going global" strategy, and expanding nationwide in the new energy sector. As of 2019, its installed capacity of new energy reached 3.4015 million kW, accounting for 50.76% of total capacity and historically surpassing thermal power. This marks a milestone in the Company's transformational development.

# 03

# 创新发展阶段(2021-2023年)

从 2021 年开始,在国家电投战略指引下,在继续发展新能源的基础上,大力开发建设绿色氢基能源等新兴产业。2021 年,新能源板块发电收入 5.31 亿元,超过火电板块收入,利润贡献成为公司效益的重要支撑,吉电股份成为以新能源发电业务为主的上市公司。2022 年开工建设大安风光制绿氢合成氨一体化示范项目,引领绿色氢基能源发展;新能源装机 1 012.12 万千瓦,装机占比75.41%。

# 大一类企业新发展阶段(2024年-至今)

2024年,公司成为国家电投大一类企业,开启高质量发展新征程。

# Phase of innovative development (2021-2023)

Since 2021, under the strategic guidance of SPIC, significant efforts have been made to develop emerging industries such as green hydrogen-based energy, while continuing to advance new energy solutions. In 2021, we achieved power generation revenue of RMB 531 million from the new energy sector, exceeding that of the thermal power sector. The profits from this sector have become a crucial support for the Company's overall performance, establishing Jilin Electric Power as a publicly listed company primarily centered on new energy power generation. In 2022, the Da'an integrated demonstration project for wind, solar, green hydrogen, and ammonia synthesis officially began construction, setting a benchmark in the development of green hydrogen-based energy. The installed capacity for new energy reached 10.1212 million kW, accounting for 75.41% of the total installed capacity.

# New development phase as a first-class enterprise (2024 - present)

In 2024, the Company became one of the first-class enterprises under SPIC, embarking on a new journey of high-quality development.



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### **2024** 年大事记 Events in 2024

吉电股份召开安全生产 工作会议

**2**月**2**日 February 2

Jilin Electric Power held the safety production work meeting

吉电股份取得证监会同 意注册意见发行新股 募资

**4**月**29**日 April 29

Jilin Electric Power received CSRC approval for new share issuance to raise funds

吉电股份技术成果入选 《国家工业节能降碳 技术应用指南与案例 (2024年版)》

**5**月**31**日 May 31 Jilin Electric Power's t e c h n o l o g i c a l achievements selected for the "2024 National Industrial Energy Conservation and Carbon Reduction Technology Application Guide and Cases"

6月6日

June 6

会与投资者互动沟通 Jilin Electric Power interacted with investors at the "Energy Revolution Unleashes New Opportunities"

performance briefing

吉电股份在"能源革命

焕新机"集体业绩说明

吉电股份召开 2024 年安全生产工作会议,贯彻落实公司五届一次员工(会员) 代表大会暨 2024 年工作会议相关要求,总结 2023 年安全生产工作,深入分析安全生产工作面临的形势,谋划 2024 年工作思路,部署 2024 年安全生产重点工作,落实春节期间保证安全生产各项措施并观看警示教育视频。

Jilin Electric Power held the safety production work meeting to implement the relevant requirements of the Company's fifth employees (members) representative conference and the 2024 work meeting. During the meeting, we summarized the safety production work of 2023, conducted an in-depth analysis of the current situation and challenges in safety production, planned the safety work strategy for 2024, outlined the key tasks for safety production in 2024, discussed the measures to ensure safety over the Spring Festival, and watched an educational warning video.

吉电股份收到证监会《关于同意吉林电力股份有限公司向特定对象发行股票注册的批复》(证监许可 [2024]690 号),取得证监会同意注册意见,向特定对象发行股票不超过 8.37 亿新股,募集资金总额不超过 55.39 亿元。

Jilin Electric Power received approval from the CSRC regarding the "Approval for Jilin Electric Power to Issue Shares to Specific Objects" (CSRC License [2024] No. 690). The approval authorizes the issuance of up to 837 million new shares to specific investors, with a total fundraising amount not exceeding RMB 5.539 billion.

国家工业和信息化部发布《国家工业节能降碳技术应用指南与案例(2024年版)》(以下简称案例)。其中,由吉电股份牵头研发并实施的"规模化风光离网直流制氢技术""风光制绿氢合成氨技术"及"生物质气化费托合成制备绿色航煤技术"三项技术成果成功入选第十类共15项氢能制取及利用技术领域案例,标志着公司以科技创新推动新质生产力形成取得新成效。

The Ministry of Industry and Information Technology (MIIT) has released the "2024 National Industrial Energy Conservation and Carbon Reduction Technology Application Guide and Cases" ("the Cases"). The three technological achievements led by Jilin Electric Power have been selected as part of the top ten among 15 case studies in the hydrogen energy production and utilization sector, including the "Large-scale Off-grid Direct Current Hydrogen Production", "Wind and Solar Green Hydrogen Ammonia Synthesis", and "Biomass Gasification Fischer-Tropsch Synthesis for Green Aviation Fuel". This underscores the Company's advances in fostering new productivity through technological innovation.

吉电股份在深圳受邀参加深交所"能源革命焕新机"集体业绩说明会。公司 党委书记、董事长杨玉峰,总经理、党委副书记牛国君、独立董事张学栋、 总会计师谢晶出席说明会,并通过现场问答、在线交流等方式与投资者互动 沟通。

Jilin Electric Power was invited to participate in the "Energy Revolution Unleashes New Opportunities" performance briefing organized by SZSE in Shenzheng. The briefing was attended by Yang Yufeng, the Company's Party Committee Secretary and Chairman; Niu Guojun, General Manager and Deputy Party Committee Secretary; and Xie Jing, Chief Accountant. They interacted and communicated with investors through on-site Q&A sessions and online discussions.



8月20日 August 20 吉电股份召开 2024 年 半年度业绩说明会

Jilin Electric Power held its 2024 semi-annual performance briefing

吉电股份获评 Wind

8月22日 August 22 ESG 评级 AA 级 Jilin Electric Power achieved AA rating in Wind ESG assessment

吉电股份连续三年荣获 深交所信息披露工作 A 级最高评价

10月15日 October 15

Jilin Electric Power received top "A" rating for information disclosure from SZSE for three consecutive years

吉电股份成功完成向特 定对象发行股票

**11**月**6**日 November 6

Jilin Electric Power successfully completed private placement of shares

吉电股份荣获第二届国新杯·ESG 金牛奖碳中和二十强

12月5日 December 5

Jilin Electric Power received ESG Golden Bull Award at the 2nd Guoxin Cup, ranking in the Top 20 8月20日,吉电股份在长春召开2024年半年度业绩说明会,会议介绍了公司发展历程、取得的成效及未来发展展望,多家机构就经营业绩、煤电电价、氢能产业发展等问题与管理层进行了深入探讨。

On August 20, Jilin Electric Power held its 2024 semi-annual performance briefing in Changchun. The briefing introduced the Company's development journey, achievements, and future projections. Representatives from various institutions engaged in in-depth discussions with the management on topics including operating performance, coal and electricity tariffs, and advancements in the hydrogen energy sector.

全国知名金融信息服务商万得咨询发布最新 ESG 评级结果,吉电股份凭借卓越的 ESG 表现,综合得分 8.12 分,获评"AA"级,在全国 5,349 家 A 股上市公司中排名 62,7,800 家 A 股和港股上市公司中排名 86,位列全国电力行业第二,达电力行业最高评级。

Wind Consulting, a well-known national financial information service provider has announced its latest ESG ratings, Jilin Electric Power's outstanding ESG performance. The Company achieved a comprehensive score of 8.12, securing an "AA" rating. It ranks 62nd among 5,349 A-share listed companies and 86th among 7,800 A-share and H-share listed companies. It also holds the second position in the national power industry, achieving the highest rating within the sector.

深交所公布深市主板上市公司 2023-2024 年度信息披露评价结果,吉电股份信息披露工作再次荣获最高级 "A"级(优秀)评价,这也是公司连续三年荣获此殊荣。

The SZSE has announced its 2023-2024 evaluation results for information disclosure among Main Board listed companies. Jilin Electric Power once again earned the highest "A" (Excellent) rating for its information disclosure efforts, marking the third consecutive year the Company has received this honor.

吉电股份圆满完成向特定对象发行 A 股股票,是成立以来募集资金规模最大、 审核周期最长、认购倍数最高、发行折价率最优的再融资项目,将有效推动"均 衡增长战略"落实落地和产业结构的优化调整。

Jilin Electric Power has successfully completed the private placement of shares, which was the refinancing project with the largest fund-raising scale, the longest review period, the highest subscription rate and the most advantageous discount rate since its establishment. This accomplishment will significantly advance the implementation of "balanced growth strategy" and support the optimization and adjustment of its industrial structure.

2024 金牛企业可持续发展论坛暨第二届国新杯·ESG 金牛奖颁奖在上海青浦隆重举行。吉电股份凭借在 ESG 领域和碳中和方面的卓越表现,荣获第二届国新杯·ESG 金牛奖碳中和二十强。

The 2024 Golden Bull Enterprise Sustainable Development Forum and the 2nd Guoxin Cup ESG Golden Bull Awards ceremony were held ceremoniously in Qingpu, Shanghai. With its excellent performance in the ESG field and efforts towards carbon neutrality, Jilin Electric Power was recognized as one of the Top 20 Carbon Neutral Companies, earning the ESG Golden Bull Award at the 2nd Guoxin Cup.

# 

**12**月**10**日 December 10 吉电股份成功获取 150 万千瓦集中式风电项目 建设指标

Jilin Electric Power successfully secured quota for 1.5 million kW centralized wind power project

吉电股份白城发电公司 保供煤电项目获吉林省 发展和改革委员会核准

**12**月**27**日 December 27 Jilin Electric Power
Baicheng Power
Company received
approval from the Jilin
Provincial Development
and Reform Commission
for its coal power supply
project

贵州省下达 2024 年度风电光伏发电建设规模项目计划(第三批),吉电股份所属华北区域公司成功获取 150 万千瓦集中式风电项目建设指标,标志着公司锚定"新能源+"大基地建设开启新的篇章。

Guizhou Province has announced the 2024 annual wind and solar power generation construction scale plan (third batch). Jilin Electric Power's North China Regional subsidiary has successfully secured a construction quota for a 1.5 million kW centralized wind power project, marking the start of a new chapter in its "New Energy+" major base construction initiatives.

吉电股份白城发电公司 2×66 万千瓦保供煤电项目获吉林省发展和改革委员会核准,标志着该项目实现新的突破,正式迈入实施阶段,也意味着公司火电产业发展迎来新的里程碑,这是公司落实国家电投"均衡增长战略"、坚定实施"新能源+"发展赛道取得的又一重要成果。

The company's 2×660,000 kW coal power supply project has been approved by the Jilin Provincial Development and Reform Commission. This marks a significant breakthrough, officially entering the implementation phase, and also a new milestone in the development of our thermal power industry. This achievement underscores our commitment to executing the SPIC "balanced growth strategy" and advancing along the "New Energy+" development pathway.

# 业务概览

Business overview

公司业务发展方向

Corporate Business Development Direction



# 组织结构

Organizational structure

办公室(党委办公室、直属党委) Office (Party Committee Office, Directly Affiliated Party Committee) 规划与发展部(融合办公室) Planning and Development Department (Integration Office) 人力资源部(党委组织部) Human Resources Department (Party Organization Department) 计划与财务部 Planning and Finance Department 资本运营部 (董事会办公室) Capital Operation Department (Board of Directors Office) 市场营销部 **Marketing Department** 物资与燃料管理部 Material and Fuel Management Department 科技与数智化部 Technology and Digital Intelligence Department 工程管理部 **Engineering Management Department** 火电部 **Thermal Power Department** 新能源部 **New Energy Department** 氢能技术部 Hydrogen Technology Department 氢能生产运营部 **Hydrogen Production Operations Department** 法律与风险管理部 Legal and Risk Management Department 安全环保部 Safety and Environmental Department 审计部 **Audit Department** 党建部 (党委宣传办) Party Building Department (Party Committee Publicity Office) 纪委办公室 Discipline Inspection Commission Office 党委巡察办 Party Committee Inspection Office

> 群团工作部(工会办公室) Work Department of Mass Organizations (Trade Union Office)

吉林电力股份有限公司 Jilin Electric Power Co., Ltd 职能部门 Functional departments

吉林省汪清抽水蓄能有限公司

Jilin Wangqing Pumped Storage Co., Ltd.

走进吉电

/019

注:按照管理口径统计

statistical standards

Note: According to management

# 年度荣誉

Annual honors

获奖名称 Name	颁奖单位 Awarding body	获奖单位 Awarded unit
2024 人民匠心品牌 2024 People's Innovative Brand	人民网 People's Daily Online	吉林电力股份有限公司 Jilin Electric Power Co., Ltd
2024 人民企业社会责任案例	人民网	吉林电力股份有限公司
2024 八氏正业社云页证条例 2024 People's Corporate Social Responsibility Case	People's Daily Online	Jilin Electric Power Co., Ltd
信息披露 A 级	深圳证券交易所	吉林电力股份有限公司
日志収路 A 収 Information Disclosure Grade A	然如此分义勿用 SZSE	Jilin Electric Power Co., Ltd
上市公司投资者关系管理最佳实践		
Best Practice in Investor Relations Management for	中国上市公司协会	吉林电力股份有限公司
Listed Companies	China Association for Public Companies	Jilin Electric Power Co., Ltd
2024 年上市公司董事会优秀实践案例	中国上市公司协会	吉林电力股份有限公司
Excellent Practice Case for the Board of Directors of	イ当エルムリの会 China Association for Public Companies	Jilin Electric Power Co., Ltd
Listed Companies in 2024	Crima Association for Fubile Companies	Jilli Liectric i ower co., Lta
上市公司最佳董事会奖	每日经济新闻	吉林电力股份有限公司
Best Board of Directors Award for Listed Companies	National Business Daily	Jilin Electric Power Co., Ltd
	中国企业改革与发展研究会联合半月	
2024 中国企业 ESG 优秀案例	谈杂志社	吉林电力股份有限公司
2024 China Enterprise ESG Excellent Case	China Enterprise Reform and Development Research Association, China Comment	Jilin Electric Power Co., Ltd
第二届国新杯·ESG 金牛奖碳中和二十强	   中国证券报	   吉林电力股份有限公司
ESG Golden Bull Award at the 2nd Guoxin Cup,	China Securities Journal	Jilin Electric Power Co., Ltd
Ranking in the Top 20	上海把北集团上用壳车间	
2024 年度 "ESG 先锋 60"	上海报业集团与界面新闻 Shanghai United Media Group, Jiemian	吉林电力股份有限公司
2024 "ESG Pioneer 60"	News	Jilin Electric Power Co., Ltd
中国安装工程优质奖(中国安装之星)	中国安装协会	吉林电力股份有限公司
China Installation Engineering Quality Award (China	China Installation Association	Jilin Electric Power Co., Ltd
Installation Star)	Offina motanation Accountion	omir Electric Fower co., Etc
乡村振兴固定收益产品优秀发行人	深圳证券交易所	吉林电力股份有限公司
Outstanding Issuer of Rural Revitalization Fixed Income Products	SZSE	Jilin Electric Power Co., Ltd
入选《国家工业节能降碳技术应用指南与案例		
(2024 年版)》	国家工业和信息化部	   吉林电力股份有限公司
Selected for the "2024 National Industrial Energy	国家工业和信念化的 MIIT	Jilin Electric Power Co., Ltd
Conservation and Carbon Reduction Technology Application Guide and Cases"	IVIII I	Jiiii Electric i Ower Go., Eta
2024 年度电力行业企业文化建设典型案例	中国电力企业联合会	吉林电力股份有限公司
2024 Exemplary Case of Corporate Culture Development in the Power Industry	China Electricity Council	Jilin Electric Power Co., Ltd
吉林日报"优秀通联单位"	吉林日报社	吉林电力股份有限公司
"Excellent Communication Unit" by Jilin Daily	Jilin Daily	Jilin Electric Power Co., Ltd



- 022 科创体系建设 Development of technological innovation system
- 024 科创平台合作 Collaboration on technological innovation platforms
- 025 科技成果转化 Transformation of technological achievements

# 科创体系建设

Development of technological innovation system

吉电股份严格遵守《国家电力投资集团有限公司科技与创新管理规定》等标准,在制度层面设立《科技与创新管理规定》《科研项目管理办法》《创新示范项目管理办法》《知识产权管理办法》《科技奖励办法》等内部制度。公司持续优化创新管理机制,发布《科研项目管理办法》等管理政策,从研发项目立项、过程管控、项目验收等全流程的角度规范了研发行为,为公司的研发创新奠定稳定的基石。

为鼓励和支持研发创新,吸引和培养先进技术人才,激 发员工研发创新的积极性,公司制定科技创新奖励制度 或专项奖励方案,制定科技奖、知识产权、科技论文、 重点科技项目、科技成果转化等方面的奖励办法,并按 照标准落实奖励。

截至 2024 年,公司 16 家所属企业获得国家高新技术企业认证,2 家企业获得吉林省"专精特新"企业认定。公司预计在 2025 年完成吉林省"陆上风光三峡"高质量发展重大专项课题研究。



知识产权治理体系 Intellectual property governance system

#### 所属各单位

Responsible units

#### 科技与数智化部

Science, Technology, and Digital Intelligence

#### 法律与风险管理部与审计部

Legal and Risk Management DepartmentAudit
Department

"Technological and Innovation Management Regulations of the State Power Investment Corporation", Jilin Electric Power has established several internal systems, including the "Technological and Innovation Management Regulations", "Scientific Research Project Management Guidelines", "Innovation Demonstration Project Management Guidelines", "Intellectual Property Management Guidelines", and "Technology Awards Guidelines". The Company makes continuous efforts to optimize its innovation management mechanisms by releasing management policies such as the "Scientific Research Project Management Measures". These policies standardize R&D activities across all phases, including project initiation and approval, process control, and project acceptance, thereby establishing a robust foundation for the Company's R&D innovation.

In strict compliance with relevant standards such as the

To foster and support R&D innovation, attract and nurture top technical talent, and motivate employees to engage in innovative activities, the Company has established a science and technology innovation reward system or special incentive program. This includes a number of reward schemes covering areas such as technological awards, intellectual property, scientific publications, key technology projects, and the commercialization of scientific achievements, with rewards granted according to established criteria.

As of 2014, 16 of our subsidiaries have achieved national high-tech enterprise certification, while 2 have been recognized as the "specialized, refined, and innovative" enterprises in Jilin Province. By the end of 2025, the Company aims to complete its research on the major high-quality development project, the "Land-based Wind and Solar Three Gorges" in Jilin Province.

#### 组织和指导公司知识产权管理体系的运行

Organize and guide the functioning of the Company's intellectual property management system

# 完善知识产权保护制度、管理体系,文件归档等

Optimize the intellectual property protection system, management framework, and document archiving

#### 组织和指导公司知识产权侵权风险及诉讼的应对

Organize and guide the Company's response to intellectual property infringement risks and lawsuits



研发投入 9454.08 万元, 占营业收入比例为 0.69%

R&D investment is RMB 94,540,841.08,

accounting for 0.69% of operating revenue



研发人员 315 人,占比 8.21%

315 R&D personnel, accounting for 8.21%



申请专利 **108** 件,其中发明专利 **101** 件、实用新型专利 **7**件

108 patent applications, including 101 invention patents and 7 utility model patents



授权专利 83 件,其中发明专利 15 件、实用新型专利 68 件

patent granted, including 15 invention patents and 68 utility model patents

截至 2024 年末,公司有效专利总量 418 件,商标权总量 8件,著作权总量 50件。

As of the end of 2024, the Company had a total of 418 active patents, 8 trademarks and 50 copyrights.

 关于本报告

董事长致辞

走进吉电

# 科创平台合作

### Collaboration on technological innovation platforms

吉电股份与吉林大学、东北电力大学等院校建立联合研究机构,扩大研发团队规模,深化产学研合作交流。 2024年公司开展了多项技术研究并取得了绿色合成氨工 艺流程、电氢辅助系统优化方案等多项成果。 Jilin Electric Power has partnered with institutions like Jilin University and Northeast Electric Power University to establish joint research centers, expanding its R&D team and strengthening industry-university-research cooperation. In 2024, the Company conducted several technological research projects and achieved significant results, such as the development of a green ammonia synthesis process and optimization plans for electro-hydrogen auxiliary systems.



### 研究内容 Contents

#### 国内外绿色化学品市场形势及消纳方案

Domestic and international green chemical markets and utilization plans

#### 可落地场景下电网友好型规模化电氢柔性匹配方法

Grid-friendly, large-scale and flexible electrichydrogen matching method for practical applications

#### 绿氢与化工系统的耦合与优化方案

Coupling and optimization strategies for green hydrogen and chemical systems

#### 县域开发三网融合数字样板间关键技术

Key technologies for developing three-network integrated digital model rooms at the county level

#### 研究成果 Achievements

#### 提出商业合作策略

A business cooperation strategy was proposed

#### 提出由氢辅助系统优化方案

An optimization plan for electric-hydrogen auxiliary systems was proposed

#### 开发一套1万吨/年先进绿色合成氨工艺流程; 塔建绿色合成氨炭前预料实训平台

Developed an advanced green ammonia synthesis process with an annual capacity of 10,000 tons; established a pre-employment training platform for green ammonia production

# 设计开发完成县域开发三网融合数字样板间, 样板间展示场景和业态≥5种,模拟业务模式

Designed and developed a county-level threenetwork integrated digital model room, featuring at least 5 showcase scenarios and 5 business models, achieving successful demonstration operation

# 科技成果转化

### Transformation of technological achievements

吉电股份深谙进行科技成果转化是实现高质量发展的重要路径,2024年公司在火电脱硝催化剂再生、新能源无人机智能巡检、光伏清扫机器人、新能源智慧化场站建设项目中形成的知识产权成果在公司内部多个火电厂及新能源电站转化实施。公司还参与了技术标准的制定工作,主编发布了《水电解制氢合成可再生氨评价技术规范》。

2024年公司实施科技项目 62 项,获得国家电投科技进步三等奖 3 项、管理创新一等奖 1 项等多项荣誉;取得发明专利授权 15 项;承担吉林省重大科技专项 1 项、参与重大科技专项 2 项,3 家控股公司通过高新企业认证。

Jilin Electric Power is fully aware that converting technological achievements is a crucial pathway to high-quality development. In 2024, the Company implemented and transformed the intellectual property outcomes from projects, such as the regeneration of denitrification catalysts for thermal power, intelligent inspections by new energy drones, photovoltaic cleaning robots, and the construction of smart new energy stations, across several internal thermal power plants and new energy stations. The Company has also participated in the development of technical standards, having edited and published the "Technical Specifications for the Evaluation of Renewable Ammonia Synthesis by Hydrogen Electrolysis".

In 2024, the Company undertook a total of 62 scientific and technological projects, and was honored with several awards, including three third prizes in the SPIC's Science and Technology Progress Awards and a first prize in Management Innovation. Additionally, it secured 15 invention patents, undertook one major scientific and technological project in Jilin Province, participated in two major scientific and technological projects, and had three subsidiaries passing the high-tech enterprise certification.

#### 案例 Case

# 科技研究持续发力获得国内外认可 Gaining domestic and international recognition through continuous efforts in technological research

四平第一热电公司"飞翔鸟"QC小组凭借《研制供热主管网数控双排气装置》创新成果,摘得2024年国际质量管理小组(ICOCC)大会"金奖",是吉电股份QC成果首次跨越国界,赢得国际大奖。

With an innovative project, "Development of a CNC Dual Exhaust Device for Main Heating Pipelines", the "Flying Bird" QC team of Siping First Thermal Power won the "Gold Award" at the 2024 International Quality Control Circle (ICQCC) conference. This marks the first time that the QC achievements of Jilin Electric Power have received an international award.

吉电股份"规模化风光离网直流制氢技术"等三项技术成果入选工信部《国家工业节能降碳技术应用指南与案例》。其中"规模化风光离网直流制氢关键技术研究"已完成吉林省"揭榜挂帅"任务书签订。

Jilin Electric Power's three technological achievements, including the "Scaled Wind and Solar Off-Grid Direct Current Hydrogen Production Technology", have been selected for the "2024 National Industrial Energy Conservation and Carbon Reduction Technology Application Guide and Cases" by MIIT. Notably, the "Research on Key Technologies for Scaled Wind and Solar Off-Grid Direct Current Hydrogen Production" has finalized the signing of "open competition" task agreement in Jilin Province.



- 028 ESG 管理体系 ESG governance system
- 030 ESG 战略 ESG Strategy
- 032 ESG 影响、风险与机遇 ESG impacts, risks and opportunities
- 032 利益相关方沟通 Communication with stakeholders
- 034 双重重要性分析 Dual materiality analysis

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# ESG 管理体系

ESG governance system

吉电股份建立健全 ESG 组织体系,设立 ESG 委员会、ESG 办公室与 ESG 工作小组形成的"决策、管理、执行"三级 ESG 治理架构,制定《董事会可持续发展(ESG)委员会议事规则》《ESG 建设管理规定》,明确各层职责,形成从决策、沟通、实际执行到汇报考核的实践闭环管理体系。2024年,公司董事会特设可持续发展(ESG)委员会,接受公司董事会监督,向董事会报告工作并对董事会负责,明确 ESG 委员会以实现企业高质量可持续发展为目标。

Jilin Electric Power has established and enhanced its ESG organizational structure by setting up an ESG Committee, an ESG Office and an ESG Working Group, thus forming a three-tier governance framework of "decision-making, management, and execution". Additionally, the Company has developed the "Board of Directors' Sustainable Development (ESG) Committee Meeting Rules" and the "ESG Construction Management Regulations" to clearly delineate responsibilities at each level. This creates a practical closed-loop management system that extends from decision-making, communication, and actual execution to reporting and assessment. In 2024, the Board of Directors established a dedicated Sustainable Development (ESG) Committee, which operates under the supervision of the Board, reporting to and responsible to the Board. The Committee is clearly tasked with achieving highquality sustainable development for the Company.

	Key r	ESG 治理架构各层级主要职责 esponsibilities at various levels of ESG governance
决策层 Decision- making level	ESG 委员会 ESG Committee	由五名董事组成,以实现企业高质量可持续发展为目标,对公司可持续发展工作进行研究并提出建议: The Committee consists of five directors, aiming to achieve high-quality sustainable growth by researching and providing recommendations for the Company's sustainable development initiatives:
管理层 Management level	ESG 领导小组 ESG Leading Group	公司 ESG 建设、管理工作的领导机构,由公司部分董、监事成员及高级管理人员构成: The Group serves as the guiding body for the Company's ESG development and management, comprising some directors, supervisors, and senior management: ·负责贯彻落实国家、国家电投 ESG 相关要求和部署 Implements and adheres to national and SPIC requirements and directives related to ESG ·负责公司 ESG 建设工作的组织领导,审定 ESG 建设方案和 ESG 公告 Organizes and leads the Company's ESG initiatives, and reviews ESG plans and announcements ·负责协调并推动解决工作中遇到的问题 Coordinates and facilitates the resolution of issues encountered during ESG efforts

续表

	Key r	ESG 治理架构各层级主要职责 esponsibilities at various levels of ESG governance
执行层	ESG 办公室 ESG Office	由各相关职能部门负责人构成: The Office is composed of heads from various functional departments:
Execution level	ESG 工作小组 ESG Working Group	由公司 ESG 相关业务相关的员工构成 The Group consists of employees engaged in the Company's ESG-related activities: ·协调编制可持续发展报告 Coordinates the preparation of the sustainability report ·负责公司可持续相关管理、数据统计与分析、投资者及研究机构沟通等方面的能力构建 Develops capabilities in sustainability management, data collection and analysis, and communication with investors and research institutions ·定期工作成果向管理层汇报 Regularly reports progress and achievements to management

同时,公司积极推进行业 ESG 标准建设工作,作为起草单位参与制定《清洁能源企业 ESG 管理体系建设指南》,获得中国工业环保促进会等相关方认可。

Additionally, the Company actively contributes to the development of industry ESG standards, participating as a drafting unit in developing the "Guidelines for ESG Management System Construction in Clean Energy Enterprises", which has been recognized by the China Industrial Environmental Protection Promotion Association and other relevant parties.





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# ESG 战略

ESG strategy

吉电股份全面审视企业愿景、使命和价值,梳理形成富有公司特色的 ESG 愿景和理念,并使之融入企业文化,着力彰显"吉电品牌"价值和形象,推动公司在清洁能源领域做出更大贡献,赋能价值创造,服务经济社会发展。

Through a comprehensive review of its vision, mission and values, Jilin Electric Power has formed an ESG vision and philosophy with its own characteristics, which has been integrated into the corporate culture to underscore the value and image of the "Jilin Electric Power" brand. It aims to make significant contributions to the clean energy sector, empower value creation, and support economic and social development.

ESG 愿景 ESG vision ◆ 奉献绿色能源 打造低碳生活

Dedicating to Green Energy and Fostering a Low-Carbon Lifestyle

ESG 理念 ESG philosophy ◆ 绿色发展 服务公众 诚信为本 合作共赢
Pursuing Green Development, Serving the Public, Upholding Integrity and Achieving Win-Win Cooperation

公司定期结合发展实际需要,对 ESG 相关议题的重要性进行评估,将其纳入公司风险管理体系,制定风险与机遇应对措施,定期跟进风险情况。公司风险管理体制机制及为监测、预防、管理、控制、减缓相关重大影响所采取的措施和行动,详见"以合规控风险:风控管理"章节及正文中各章节内容。

The Company regularly evaluates the significance of ESG-related issues in line with its developmental needs, integrating them into its risk management system, so as to develop strategies to address risks and opportunities and routinely monitors risk scenarios. For more details on the Company's risk management system and the measures and actions taken to monitor, prevent, manage, control, and mitigate significant impacts, please refer to the "Managing risk through compliance: risk management" section and other relevant sections of the Report.



#### 表: ESG 相关风险及应对措施

Table: ESG-related risks and	d countermeasures	
	风险描述 Description	应对措施 Countermeasures
环境合规管理 Environmental compliance management	环境保护投入不足,环保措施落实不力, 导致公司遭受政府处罚、客户索赔、经 济损失、形象受损。 Inadequate investment in environmental protection and ineffective implementation of environmental measures may result in government penalties, customer claims, economic losses, and reputational damage for the Company	严格执行环保管理。持续落实环境污染因素的治理、监测和评价,持续改进污染物排放控制措施; 严格执行各类危险废弃物分类处置要求。 Enforce environmental management rigorously. Continuously manage, monitor, and assess environmental pollution factors while consistently improving pollutant emission control measures; Adhere strictly to hazardous waste classification and disposal requirements.
职业健康安全 Occupational health and safety	安全管理制度不健全,安全措施不到位, 责任不落实;员工职业健康权益保护不 够,导致员工身体和心理健康被损害, 影响公司生产经营和可持续发展。 Due to the inadequacy of safety management systems, insufficient safety measures, and lack of accountability, employees' occupational health rights will not be adequately safeguarded, leading to both physical and mental health issues among employees, and further exerting negative impact on the Company's production, operations, and sustainable development.	持续提升公司安全环保体系建设、人员素质、管理模式、风险管控、应急处置等过程管理; 持续提升职业健康管控水平。进一步加强职业 病防治的宣传和培训。 Make continuous efforts to improve our safety and environmental protection systems, personnel development, management models, risk control, and emergency response processes; enhance the level of occupational health management, and the promotion and training on occupational disease prevention.
科技创新 Technological innovation	产业创新技术积累和储备不足,影响公司可持续发展 Limited accumulation and reserves of industrial innovation technologies can impede the Company's sustainable development.	健全科技创新管理体系,制定科技创新奖励制度和方案,吸引和培养先进技术人才,同时加强科研平台合作及科技成果转化 Develop a robust management system for technological innovation, implement rewarding policies for technological achievements, attract and nurture advanced technological talent, and strengthen collaboration with research platforms and the conversion of technological results
人力资源管理 Human resource management	若无法提供具有市场竞争力的薪酬福利和人才发展机制,将难以吸引优秀人才加入公司或导致关键人才流失Failure to offer competitive compensation and development opportunities could make it difficult to attract top talent or result in the loss of key employees	为员工提供具有市场竞争力的薪酬福利待遇,并搭建全面的职业晋升和员工培训体系 Provide competitive compensation and benefits to employees, and establish a comprehensive career advancement and training system to foster their development
应对气候变化 Response to climate change	详见"应对气候变化"章节 See the section "Response to climate change"	

# ESG 影响、风险与机遇

ESG impacts, risks and opportunities

吉电股份将 ESG 职责纳入经营决策和内部控制评估中,董事会及董事会 ESG 委员会定期就公司 ESG 管理工作进行研讨,对公司可持续发展相关事项提出建议。

提升专业水平。为进一步降低 ESG 相关风险,提高公司 ESG 管理水平,公司定期邀请外部专家对 ESG 政策背景、发展趋势等进行培训,以确保公司董事会及管理层了解 ESG 最新发展。

信息披露及时。公司秉持透明公开原则,通过上市公司 指定媒体、官方网站、公众号、年度报告、ESG报告等 形式,定期更新、披露公司 ESG 相关信息,主动向利益 相关方展示公司 ESG 管理理念、措施及成效。

**绩效考核明确。**公司管理层签订《经营业绩责任书》,将 ESG 指标纳入经营业绩考核,覆盖管理提升、经营安全、安全质量环保、法治合规、履行社会责任、研发投入等维度,相关经营业绩考核结果与公司管理层绩效年薪挂钩。

Jilin Electric Power incorporates ESG responsibilities into its business decisions and internal control assessments. The Board of Directors and its ESG Committee regularly hold discussions on the Company's ESG management efforts, offering recommendations on sustainable development issues.

Enhancing professional expertise. To further reduce ESGrelated risks and improve its ESG management, the Company regularly invites external experts for training on ESG policy backgrounds and development trends, ensuring that the Board of Directors and senior management stay informed about the latest developments in ESG.

Timely information disclosure. Adhering to the principles of transparency and openness, the Company regularly updates and discloses ESG-related information through its official website, WeChat account, annual reports, and ESG reports, actively demonstrating its ESG management concepts, measures, and achievements to stakeholders.

Clear performance assessment. The Company's senior management is required to sign a "Business Performance Responsibility Agreement" that integrates ESG indicators into their performance assessment. This includes areas such as management improvement, operational safety, quality and environmental protection, legal compliance, social responsibility, and R&D investment. The outcomes of these performance assessments are linked to the annual performance and salaries of senior management.

# 利益相关方沟通

Communication with stakeholders

吉电股份坚持共同发展、合作共赢的原则,保持与政府 及监管机构、股东与投资者、客户和合作伙伴、员工等 利益相关方的密切沟通,能够及时获悉各方期待和建议 并对各方的诉求和期望予以回应。 Adhering to the principles of common development and win-win cooperation, Jilin Electric Power maintains close communication with stakeholders, including the government and regulatory bodies, shareholders and investors, customers and partners, and employees, ensuring timely awareness of expectations and suggestions from all parties and effectively responding to their needs and expectations.

利益相关方	主要关注点	主要举措
Stakeholders	Main concerns	Initiatives
	保障能源安全	
	Ensure energy security	与政府开展战略合作
	响应国家战略	Strategic cooperation with the government
	Respond to national strategies	工作汇报
政府及监管机构	反贪腐	Work report
Government and	Anti-corruption	接受监督并开展警示教育
regulatory bodies	守法合规	Subject to supervision and carry out warning education
	Compliance with laws and regulations	足额纳税
	促进地区经济发展	Pay tax in full
	Promote regional economic development	
	公司治理与价格创造	提升管理水平与风险管理能力
	Corporate Governance and value creation	Improve management and risk management capabilities
	国有资产保值增值	安全稳健运营
股东及投资者	Preservation and appreciation of state-	メ主体性色 Maintain safe and steady operation
Shareholders and	owned assets	发布定期报告、业绩交流
investors	信息披露	Publish regular reports and performance communications
	Information disclosure	现金分红
	风险控制	Cash dividends
	Risk control	Casii dividends
供应商及合作伙伴	互利共赢	
Suppliers and	Mutual benefits and win-win outcomes	
partners	广泛开展战略合作	
	Foster broad strategic collaborations	
	M 4 T R	践行责任使命,保障能源供应
客户	服务质量	Fulfill our duty and mission to ensure energy supply
Customers	Service quality	开展客户满意度调查
		Conduct customer satisfaction surveys
	V 244 E (1) E	与村振兴帮扶 
	关注社区发展 - · · · · · · · · · · · · · · · · · · ·	Support rural revitalization
21.5	Community development	慈善公益
社区	建立和谐社会	Engage in charity and public welfare initiatives
Community	Promote a harmonious society	一 节能技术升级改造 
	保护社区环境	Upgrade energy-saving technologies
	Protect the community environment	发展清洁能源
		Develop clean energy
	薪酬及基本权益保障	签订合同
	Remuneration and basic rights protection	Sign contracts
	个人发展与晋升	员工培训体系建设
员工	Personal development and promotion	Develop employee training systems
Employees	健康与安全保障	员工代表大会及工会
	Health and safety assurance	Facilitate employee representative meetings and trade unions
	员工关怀	员工小家建设
	Employee care	Create a supportive workplace environment

吉电筑善治:

ESG 治理

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# 双重重要性分析

Dual materiality analysis

#### 第一步 识别关键议题

吉电股份结合深交所《指引》议题设置、行业特点、公司性质、行业发展阶段、自身商业模式等,初步识别出37个与公司发展、环境、社会等方面相关的议题。

#### 第二步 重要性分析

公司针对识别出的议题,通过问卷调查、专家评估、行业对标等方式,了解、征集利益相关方意见,进行影响重要性及财务重要性评估,确定各议题影响重要性及财务重要性分数。

#### Step one: identification of key issues

Jilin Electric Power has identified 37 topics related to corporate development, environmental, and social aspects in combination with topics outlined in the "Guidelines" by SSE, industrial characteristics, corporate nature, the stage of industry development, and corporate own business model.

#### Step two: materiality analysis

For the identified issues, the Company collects stakeholder feedback through questionnaires, expert evaluations, and industry benchmarking. It then assesses both the impact significance and financial importance to assign scores for each issue.

重要性类别 Materiality category	解释 Description	调查方法 Survey method
影响重要性 Impact materiality	公司在相应议题的表现是否会对经济、社会和环境产生重大影响 Whether the Company's performance on specific issues will significantly affect the economy, society, and environment	问卷调查 Questionnaire
财务重要性 Financial materiality	议题是否预期在短期、中期和长期内对公司商业模式、业务运营、发展战略、财务状况、经营成果、现金流、融资方式及成本等产生重大影响Whether these issues are expected to have a substantial impact on the Company's business model, operations, development strategy, financial condition, performance, cash flow, and financing methods and costs in the short, medium, and long term.	问卷调查 Questionnaire

#### 第三步 重要性议题综合分析

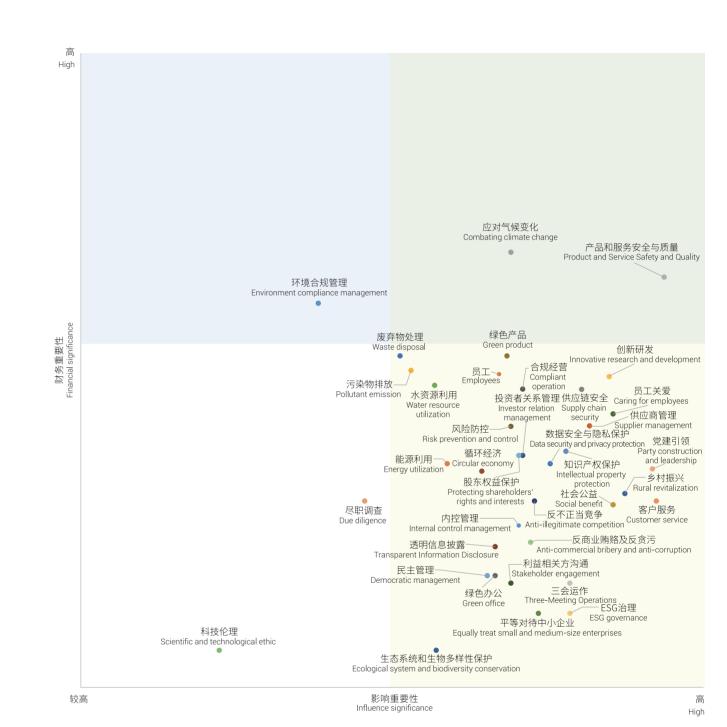
结合影响重要性和财务重要性分析结果,根据公司发展情况,确定公司影响重要性及财务重要性议题阈值,进行重要性排序并绘制重要性议题矩阵。各议题的重要程度为公司持续进行可持续发展与社会责任相关信息披露提供重要参考。

其中,环境合规管理具有财务重要性,应对气候变化及 产品和服务安全与质量具有双重重要性。

#### Step three: comprehensive analysis of materiality issues

Utilizing the analysis results of impact and financial materiality, and considering the Company's development status, we determine the thresholds for both impact and financial materiality issues. The materiality of each issue serves as an essential reference for the Company's ongoing disclosure related to sustainable development and social responsibility.

Among these, environmental compliance management is identified as a financially material issue. Meanwhile, addressing climate change, and the safety and quality of products and services are considered issues of dual materiality.







038 以体系强保障:环境合规管理 Robust systems for assurance: Environmental compliance management

044 以行动应气候:气候变化管理 Action for climate: Climate change management

057 以节约用资源:资源管理 Resource conservation: Resource management

D61 以防治控污染:排污管理 Pollution prevention and control: Pollutant discharge management

D66 以守护保生态:生物多样性 Protection and conservation of ecosystems: Biodiversity

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# 以体系强保障: 环境合规管理

Robust systems for assurance: Environmental compliance management

吉电股份以"保护优先、预防为主、综合治理、全员参与"为总方针,构建并完善公司环境保护和内部监督机制,要求党组织在生态环保工作中发挥重要作用,把生态环保纳入议事日程,及时组织研究重大问题,督促各项生态环保决策落实到位。公司坚决贯彻落实国家生态环保法律法规、标准规范,组织制定生态环保管理制度,全面提升生态环境保护管理能力。报告期内,公司未因环境事件受到生态环境等有关部门重大行政处罚。

环保总投入10,921万元,同比持续增长。

### 建立环境治理体系

公司严格遵循《中华人民共和国环境保护法》《中华人民共和国环境影响评价法》《噪声污染防治法》等法律法规,在公司内部制度建设上,公司建立《生态环境保护管理工作规定》《突发环境事件应急预案》《生态环保责任制管理规定》等内部管理制度,不断完善环境管理内部制度和管理体系,通过 ISO 14001 环境管理体系认证。



Embracing the overall policy of "protection as a priority, prevention first, comprehensive management, and full participation". Jilin Electric Power has established a robust environmental protection and internal supervision mechanism. It requires that Party organizations shall play a crucial role in ecological and environmental efforts, integrating ecological protection into their agendas, promptly addressing significant issues, and ensuring the effective implementation of environmental protection decisions. The Company is committed to firmly implementing national ecological and environmental protection laws, regulations and standards, having developed an environmental management system to significantly enhance its capabilities in environmental protection management. During the reporting period, the Company did not receive any major administrative penalties from environmental or related authorities due to environmental incidents.

The total investment in environmental protection was RMB 109.21 million, continued year-on-year growth.

# Establishing an environmental governance system

The Company strictly complies with the "Environmental Protection Law of the People's Republic of China", the "Environmental Impact Assessment Law of the People's Republic of China", the "Noise Pollution Prevention and Control Law", and other related laws and regulations. Internally, it has developed several internal management systems, including the "Regulations for Ecological Environment Protection Management", "Emergency Plan for Unexpected Environmental Incidents", and "Ecological and Environmental Responsibility Management Regulations". We continuously enhance our internal environmental management systems and frameworks, and have secured ISO 14001 Environmental Management System certification.

	环境管理架构 Environmental management framework
公司 The Company	·负责制定环境管理、资源利用等相关政策及制度 Develops policies and systems related to environmental management and resource utilization ·定期审核执行情况,并就整改事宜向董事会汇报 Conducts regular implementation reviews, and reports any necessary corrections to the Board of Directors
环境保护领导小组 Environmental Protection Leading Group	·在专业部门及安全环保部门设置环境保护管理 Establishes environmental management teams within professional and safety & environmental departments ·负责环境保护具体工作的开展 Performs specific environmental protection tasks
公司各相关单位环 境保护部门 Environmental protection departments of units concerned	·配置专职生态环保人员 Assigns dedicated personnel for ecological and environmental protection ·负责节能减排、三废(指废水、废气、废渣)排放管理、气候风险管理、碳排放管理保障环保投入与环保技术提升等工作 Implement initiatives related to energy conservation, emission reduction, management of the "three wastes", wastewater, waste gas, and waste residue, climate risk management, carbon emission management, and ensure investments in environmental protection and advancements in environmental technology ·确保污染防治、生态修复等工作落实到位 Ensure the effective implementation of pollution prevention, ecological restoration, and other related tasks

### 设立环境保护目标

• 不发生突发环境事件

operations

No sudden environmental incidents

公司高度重视环境保护工作,积极设立阶段性环境保护目标,预计于2027年实现生态环保"十个百分之百"。

# Setting environmental protection goals

The Company places a high emphasis on environmental protection, setting phased environmental protection goals, and aims to achieve "Ten 100%" ecological protection by 2027.

火电项目运行期间大气污染物各项排放指标达标率达到 100%
 100% compliance with emission standards for air pollutants during thermal power project

已完成 Achieved

已完成

**Achieved** 

● 新能源项目生态修复治理合格率 100% 100% ecological restoration and management compliance rate of new energy projects

已完成 Achieved

● 持证、按证排污合格率达 100% 100% compliance rate for permitted emissions 已完成 Achieved

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### 健全风险管理流程

在环境风险管理上,公司持续完善风险管理流程,编制《突发环境事件应急预案》,为进一步推动环境风险管理工作落地,公司指导所管各单位持续加强环境风险识别和防控措施落实,定期开展风险识别和评估工作,梳理环境风险清单,全面防控各类突发环境事件风险。



识别生态环境保护风息

Identify ecological and

不谙风险管理相关举持

Environmental risk management

# Improving risk management processes

In terms of environmental risk management, the Company makes continuous efforts to refine its risk management processes and has developed an "Emergency Plan for Unexpected Environmental Incidents". To further ensure effective implementation of environmental risk management, the Company guides all its subsidiaries to continually strengthen the identification of environmental risks and the execution of control measures, regularly conduct risk identification and assessment activities, and maintain a detailed list of environmental risks, comprehensively preventing risks associated with various sudden environmental incidents.

污染物不达标排放

Non-compliant pollutant emissions

发生突发环境事件

Occurrence of sudden environmental incidents

建设项目环保违法违规

Environmental violations in construction projects

发生生态环保行政处罚

Incurrence of administrative penalties for ecological and environmental protection

定期开展环境风险应急演练计划

Conduct regular environmental risk emergency exercises

"三个验证、三个覆盖"原则

Adhere to the principles of "Three Verifications, Three Coverages"

定期完成化学品泄漏、废水及废气超标排放等突发环境事件应急演练

Regularly perform emergency exercises for incidents like chemical leaks and excessive emissions of wastewater and exhaust gases

# 开展环保宣传培训

2024年,公司组织开展了"节能宣传周""低碳日"等活动,还邀请了公司系统内外生态环保专业人员为生态环保管理人员进行培训,进一步普及生态文明、绿色发展理念和节能知识,形成崇尚节约节能、低碳消费和低碳环保的理念。除了在企业内部进行宣传与培训,白城发电公司还承办白城市生态环境局 2024 年全市生态环境执法业务集训和实战比武活动,松花江热电公司承办了吉林市生态环境保护执法异地交叉实战比武暨技能比武活动等,为环境保护工作贡献自己的力量。

# Conducting environmental awareness training

In 2024, the Company organized a variety of activities like "Energy Conservation Promotion Week" and "Low Carbon Day". We also invited environmental professionals from both inside and outside the organization to train ecological and environmental management personnel. These efforts aimed to promote the principles of ecological civilization, green development, and energy conservation, fostering a culture that values conservation, energy efficiency, low-carbon consumption, and environmentally friendly practices. In addition to promoting and training internally, Baicheng Power Company also hosted the city-wide ecological environment enforcement training and competition organized by the Baicheng Bureau of Ecology and Environment. Additionally, Songhuajiang Thermoelectricity hosted the cross-regional ecological environment protection enforcement and skills competition in Jilin City, having significantly contributed to environmental protection.

#### 案例 Case

# 松花江热电公司承办吉林市生态环境保护执法异地交叉实战比武暨技能比武活动 Songhuajiang Thermoelectricity hosted the cross-regional ecological environment protection enforcement and skills competition in Jilin City

2024年8月,吉林市生态环境局与市直机关工委、市总工会在松花江热电公司,联合举办生态环境保护执法 异地交叉实战比武暨技能比武活动,全面检验执法人员技能,促进环保工作水平提升。本次比武活动分为初 赛和复赛两个环节,重点评估执法人员的思想政治素质、环境执法管理、专业知识、法学基础、法律法规、执法实践及无人机操作的熟练度和精确度。

In August 2024, the Jilin Bureau of Ecology and Environment, in collaboration with the Municipal Work Committee and the Municipal Federation of Trade Unions, held a cross-regional ecological environment protection enforcement and skills competition at the Songhua River Thermal Power Plant, aiming to comprehensively assess the skills of law enforcement personnel and enhance the level of environmental protection efforts. The competition was divided into preliminary and final rounds, primarily evaluating law enforcement personnel on their ideological and political qualities, environmental enforcement management, professional expertise, foundational legal knowledge, familiarity with laws and regulations, enforcement practices, and proficiency and accuracy in drone operation.



图: 比武活动现场 Picture: Scene of the competition

# 推动良好生态环境

双碳背景下,能源绿色低碳转型步伐加快,党的二十届三中全会作出"加快规划建设新型能源体系,完善新能源消纳和调控政策措施"重要部署,各类电源面临新定位新市场新要求。公司贯彻落实国家电投"均衡增长战略",以安全生产治本攻坚三年行动和本质安全型企业建设为纲领,着力防控较大安全风险和重大事故隐患。推进美丽中国建设,持续开展生态环保提升行动,加大风险防范力度。

# Promoting an optimal ecological environment

In the push to achieve dual carbon goals, we are accelerating the transition to green and low-carbon energy. The 20th Central Committee's Third Plenary Session of the Party emphasized "speeding up the planning and construction of a new energy system, and refining policies and measures for new energy consumption and regulation", setting new positioning, market dynamics, and requirements for various power sources. We are firmly implementing the SPIC "balanced growth strategy", guided by a three-year action plan for addressing fundamental safety challenges and building an intrinsically safe enterprise. The main goal is to prevent and control major safety risks and accident hazards. We are committed to advancing the development of a Beautiful China by continually enhancing ecological and environmental protection efforts and reinforcing risk prevention measures.

吉林电力股份有限公司 2024 年度环境、社会及公司治理(ESG)报告 JILIN ELECTRIC POWER CO., LTD. 2024 Environmental, Social and Governance Report 关于本报告

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### 案例Cas

### 针对矿区下游重金属污染农田的治理工程

# Remediation project for farmland polluted by heavy metal downstream of mining areas

广东仁化光伏发电综合利用示范项目位于韶关市仁化县凡口铅锌矿周边,利用污染土壤建设地面集中式光伏电站,整个光伏电站规划用地面积 3,715 亩。

The Guangdong Renhua Photovoltaic Power Generation Comprehensive Utilization Demonstration Project utilizes contaminated soil to construct a centralized ground-mounted photovoltaic power station, which covers a planned area of 3.715 acres.

广东仁化光伏发电综合利用示范项目采用板上发电、板下土壤治理的"光伏+土壤治理"模式,通过大量的试验与扩展种植发现,光伏板下形成的遮荫条件利于耐荫性经济植物的生长,如栀子、芦莉草、水鬼蕉整体长势较好,生物量较大,景观效果好,适宜光伏下的推广种植,不仅能够促进污染土壤复合利用,增加农民收益,还有效解决了发展光伏电站项目征占大量土地的瓶颈问题。通过在向阳面和背阴面根据不同的光照条件配置对光照要求不同的植物,综合提高土地利用率,在现有的土地资源上,"光伏+土壤治理"实现了土壤治理和能源发电效益的"双赢"。

This project adopts a "photovoltaic power+ soil remediation" approach, characterized by generating power above the panels and restoring soil health underneath. Extensive trials and cultivation experiments have demonstrated that the shading conditions created beneath the photovoltaic panels are favorable for the growth of shade-tolerant economic plants like gardenia, lilyturf, and typhonium giganteum. These plants demonstrate strong growth, substantial biomass, and appealing aesthetic effects, making them suitable for widespread cultivation under photovoltaic panels. This strategy not only fosters the rehabilitation and productive use of polluted soil, enhancing farmers' income, but also effectively resolves the challenge of significant land usage for photovoltaic project development. By strategically planting different plants based on their sunlight needs on both sunny and shaded areas, we can maximize land use efficiency. The "photovoltaic power+ soil remediation" approach creates a dual benefit, achieving both soil restoration and energy generation on existing land resources.



图:光伏板下种植经济植物
Picture: Growing economically valuable plants under photovoltaic panels

#### 某例 Case

# 开展山地风场原生态修复治理 Ecological restoration of mountainous wind farms

吉电股份所属华中区域公司大水山、莲花山项目是践行习近平总书记"两山"理论的示范项目,在项目水保工程实施过程中通过对"客土植草创新工艺""石质上边坡修复及加固""团粒喷播绿化施工装置""山地风电项目建设生态环保关键技术"等多个课题研究,采用了"植被混播技术""生态袋多场景应用""格宾网石笼技术"等多种创新水保工艺技术,大幅提升水保施工效率及水保防治效果,实现了新能源项目建设与技术创新研究的深度融合。

The Dashui Mountain and Lianhua Mountain projects, affiliated with Jilin Electric Power's Central China Regional Company, serve as demonstration projects for implementing General Secretary Xi Jinping's "Two Mountains" theory. During the water conservation engineering phase, the company explored various research topics, such as "innovative topsoil planting techniques", "rock slope restoration and reinforcement", "granular spray seeding greening devices", and "key ecological and environmental protection technologies for mountainous wind power construction". By adopting innovative water conservation techniques like "mixed vegetation planting", "multi-scenario application of ecological bags", and "gabion box technology", the company has significantly improved water conservation efficiency and effectiveness, achieving a deep integration of new energy project construction with technological innovation research.





图:大水山、莲花山生态修复项目现场 Picture: Dashui Mountain and Lianhua Mountain ecological restoration projects

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# 以行动应气候: 气候变化管理

Action for climate: Climate change management

### 气候变化治理

吉电股份遵守《企业温室气体排放核查技术指南发电设 施》《企业温室气体排放核算与报告指南发电设施》等 规范要求,制定《碳排放管理办法》等制度,明确责任 落实、监督检查、统计分析、知识培训、考核奖惩等要求, 指导节能低碳工作规范开展,推动公司绿色可持续发展。

### 气候变化战略

为应对气候变化, 吉电股份积极推进清洁低碳转型, 以 国家电投"均衡增长战略"为牵引,深度实施公司战略 落地总体方案,聚焦"新能源+"、绿色氢基能源双赛道, 打造绿色氢基能源平台,持续推进低碳发展。

公司积极参与碳交易和绿电绿证市场交易,充分利用碳 金融工具和政策获得收益;积极开展 CCUS、低碳技术研 究、示范与应用,在高质量发展中促进清洁低碳转型。

# 气候风险与机遇

# Climate change governance

Jilin Electric Power complies with standards such as the "Technical Guidelines for Enterprise Greenhouse Gas Emission Verification for Power Generation Facilities" and the "Guidelines for Greenhouse Gas Emission Accounting and Reporting for Power Generation Facilities". The Company has established systems such as the "Carbon Emission Management Measures", which clearly outline responsibilities, supervision, inspection, statistical analysis, knowledge training, evaluation, reward and punishment mechanisms. These systems guide the standardized implementation of energy-saving and lowcarbon initiatives, promoting the Company's sustainable and eco-friendly development.

# Climate change response strategy

To address climate change, Jilin Electric Power is actively advancing its clean and low-carbon transformation. Driven by the SPIC "balanced growth strategy", the Company is thoroughly implementing its overall strategic deployment focusing on the development of "new energy+" and green hydrogen-based energy. It is committed to establishing a green hydrogen-based energy platform and continuously promoting low-carbon development.

The Company is actively involved in carbon trading, as well as in the markets for green electricity and green certificates, making full use of carbon financial tools and policies to gain benefits. Additionally, it actively engages in CCUS and the research, demonstration, and application of low-carbon technologies to facilitate a clean and low-carbon transition in the context of high-quality development.

# Climate-related risks and opportunities



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主要应对举措 Main initiatives	合理配置制冷设备,且优先采用节能环保的设备类型;制定并落实员工防中暑措施,开展防暑降温关心关爱活动;加强安全管理,严格控制仓储环节的条件,并定期开展消防检查、消防演练,普及员工消防意识。Strategically allocate cooling systems, prioritizing energy-efficient and eco-friendly options; Implement heatstroke prevention measures for employees and organize heatrelief and care initiatives; Enhance safety management by strictly controlling storage conditions, conducting regular fire inspections and exercises, and increasing fire safety awareness among employees.	加强和业务所在地政府、气象和应急部门的沟通联动,及时发布预警;持续完善自然次害应急预案,加强应急能力建设,定期开展应急演练,做好自然次害的应急处置,减少对公司生产经营的影响;加强供应销售理,建立更具韧性的供应链。Enhance communication and coordination with local governments, meteorological and emergency departments to issue timely wamings. Continuously improve natural disaster emergency plans, strengthen emergency capability, regularly conduct emergency exercises, and effectively respond to natural disasters to minimize their impact on business operations, Strengthen supply chain management to build a more resilient supply chain.
气候相关财务 影响 Climate- related financial	增加运营成本和员工维护成本,降低财务收入 Increase operational and employee maintenance costs, and reduce financial revenue	固定资产损失 Fixed assets losses
受影响的价值 链范围 Scope of the affected value chain	自身运营 Internal operation	自身运营上下 游 Upstream and downstream of internal operation
时间范围 Time range	短期 Short-term	短期 Short-term
对公司的影响 Impact on the Company	制冷设备需求增大,增加运营成本支出;导致员工中暑、工作状态不佳,降低公司运营效率,同时员工健康维护成本增加;温度敏感的设备、化学试剂,仓储环节的爆炸、火灾等安全风险升高。 The increased need for cooling equipment leads to higher operational costs; Employees may experience heatstroke and reduced work performance, reducing the Company's operational efficiency and increasing employee health care costs; Temperature-sensitive equipment and chemical reagents increase the risk of explosions and fires during storage.	由于气候变化导致的台风、风暴潮、 洪水等自然灾害,可能对公司资产 和生产经营带来直接损害;自然灾 害可能导致供应链中断,为公司带 来间接影响。 Climate change-induced events such as typhoons, storm surges, and floods can directly damage the Company's assets and production operations, and indirectly affect the Company through supply chain disruptions.
气候变化相关风险和机遇类型 Types of risks and opportunities related to climate change	极端高温 Extreme high temperature	自然灾害 Natural disasters
(侯变化相关风险和机遇类? Types of risks and opportunities related to climate change	急 风性 险	Acute risk
<u> カロこニ</u>		

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主要应对举措 Main initiatives	开展气象监测,关注极端天气预警,制定科学有效的灾害应急预案,并强化应急演练;定期排查生产运营设施隐患,及时升级改造设施设备;做好防灾减灾物资的日常储备。 Carry out meteorological monitoring, stay alert to extreme weather warnings, and develop scientifically effective disaster emergency plans while enhancing emergency exercises; Regularly inspect production and operation facilities for potential hazards, and promptly upgrade and improve facilities and equipment; Ensure adequate reserves of disaster prevention and mitigation materials.	鼓励各所属企业识别所在地区的气候风险与膨弱性,并将气候风险应对纳入基础设施建设之中;稳步提高节能降碳力度,提升、废弃物等资源的使用效率,逐步降低对自然资源的依存度;面向利益相关方广泛开展气候变化相关科普教育,倡导践行低碳环保理念。Encourage each subsidiary to identify climate risks and vulnerabilities within their regions and integrate climate risk management into infrastructure development; Steadily enhance efforts in energy conservation and carbon reduction, improve the efficiency of resource usage such as water and waste, and gradually reduce reliance on natural resources; Conduct extensive climate change education for stakeholders to advocate and practice lowcarbon, environmentally-friendly principles.
气候相关财务 影响 Climate- related financial	增加运营成本,降低财务收入 Increase operational cost, and reduce financial	国定资产损失,运营成本增加,收入减少 少 Cause fixed assets losses, increase operating costs, and reduce revenue
受影响的价值 链范围 Scope of the affected value chain	自身运营上下 游 Upstream and downstream of internal operation	自身运营 Internal operation
时间范围 Time range	短期 Short-term	长期 Long-term
对公司的影响 Impact on the Company	台风、暴雨、洪涝等极端天气事件 愈来愈频繁发生,可能造成公司生 产设备损坏、运输受阻、供应链中 断等风险,导致运营产能下降、运 营成本增加,降低公司盈利水平。 Extreme weather events, including typhoons, heavy rains, and floods, are becoming more frequent, posing risks such as damage to production equipment, disruptions in transportation, and interruptions in the supply chain. They can lead to reduced operational capacity, higher operational costs, and reduced company profitability.	平均气温上升,可能造成设备冷却水增加、运营场所制冷与采暖需求增加等,进而导致运营成本上升。The rise in average temperature can lead to greater demand for equipment cooling water and increased heating and cooling needs at operational sites, thereby driving up operational costs.
气候变化相关风险和机遇类型 Types of risks and opportunities related to climate change	极端天气 Extreme weather	气温上升 Rising temperature
(候变化相关风险和机遇类 Types of risks and opportunities related to climate change	急性 风险 Acute risk	優性 风险 Chronic risk
气候变化 Ty oppool		物理风险 Physical risks

主要应对举措 Main initiatives	开展节水行动,实施节水改造,深耕替代水源项目。 水源项目。 Implement water conservation initiatives, undertake water-saving upgrades, and deeply invest in alternative water source projects.	加强能源管理,提升能源利用效率,降低电单耗;使用绿电。 Enhance energy management, improve energy efficiency, and reduce electricity consumption per unit; Adopt green energy.	密切关注并严格遵守碳排放和碳交易相关 法律法规,积极采取措施减少碳排放,严 格遵守业务所在国家或地区碳排放法规, 加强碳资产的储备和管理,保障履约;提 升公司低碳发展、气候风险管控水平。 Closely monitor and strictly comply with laws and regulations related to carbon emissions and carbon trading; actively implement strategies to reduce carbon emissions while ensuring compliance with the carbon regulations of the countries or regions in which the business operates; strengthen the reserve and management of carbon assets to ensure compliance and commitment fulfillment; Improve the Company's capabilities in low-carbon development and climate risk management.
气候相关财务 影响 Climate- related financial	增加用水成本 Increased water costs	提升运营成本 Increase operating costs	增加运营成本,降低财务收入 Increase operational cost, and reduce financial revenue
受影响的价值 链范围 Scope of the affected value chain	自身运营 Internal operation	上游 Upstream	自身运营 Internal operation
时间范围 Time range	短期 Short-term	短期 Short-term	中期、长期 Medium- term, long- term
对公司的影响 Impact on the Company	主要生产基地的水资源紧张可能导致市政供水价格上涨。 Water shortages at major production sites could lead to higher municipal water prices.	发电行业纳入国内碳交易市场提升 电价。 The inclusion of the power generation industry in the domestic carbon trading market increases electricity prices.	业务所在地政府未来将实施更为严格的环保法规,对温室气体排放设置严格的环保法规,对温室气体排放设置严格的限制和排放配额,遵守这些新规和标准会增加公司的合规成本。 In the future, local governments will enforce stricter environmental regulations, imposing strict limits and quotas on greenhouse gas emissions. Complying with these new rules and standards will raise the Company's compliance costs.
气候变化相关风险和机遇类型 Types of risks and opportunities related to climate change	水资源短缺 Water shortage	碳市场与碳 定价 Carbon market and carbon pricing	环保法规 趋严 Environ- mental regulations becoming stricter
.候变化相关风险和机遇类? Types of risks and opportunities related to climate change	優性 风险 Chronic risk		政策法 规风函 Policy and regul- atory risks
气候变化 Typ opport	物理风险 Physical risks		转型风险 Transition risks

	亨运当地 S施替换 g趋势。 emission pass local acquiring o replace trends in	i展低碳 ological w-carbon	'y green
主要应对举措 Main initiatives	达到或超越撑物新型节能认 神法规的发展 aving and neet or sur nts; Explore equipment t	投资,大力分 nt in techn ly develop lo nologies.	业务。 nd diversi
A Main in	实施节能减排措施,达到或超越营运当地的法规要求;研究采购新型节能设施替换旧设备;定期跟踪法律法规的发展趋势。Implement energy-saving and emission reduction measures to meet or surpass local regulatory requirements; Explore acquiring new energy-efficient equipment to replace outdated systems; Regularly track trends in laws and regulations.	加大技术创新方面的投资,大力发展低碳和节能技术。 和节能技术。 Increase investment in technological innovation and actively develop low-carbon and energy-saving technologies.	积极拓展多元化绿色业务。 Actively expand and diversify green businesses.
气候相关财务 影响 Climate- related financial impacts	人力成本增加及合规成本增加 hrcrease labor and compliance costs	提升运营成本 Increase operating costs	收入減少 Reduce revenue
受影响的价值 链范围 Scope of the affected value chain	自身运营 Internal operation	自身运营 Internal operation	自身运营 Internal operation
时间范围 Time range	短期、中期 Short-term, medium- term	中期、长期 Medium- term, long- term	中期、长期 Medium- term, long- term
对公司的影响 Impact on the Company	预期碳价格将会上涨,增加公司内部环境管理、经营决策的成本。 The carbon prices is expected to rise, which will increase the costs associated with the Company's environmental management and operational decision-making.	低碳转型会极大增加公司技术创新成本。 比本。 The low-carbon transition will significantly increase the Company's technological innovation costs.	低碳技术持续发展,淘汰耗能高的技术。 技术。 With the continuous development of low-carbon technologies, high- energy-consuming will be phased out.
和机遇类型 s and elated to nge	碳价格上涨 Carbon price rises	低碳转型 Low-carbon transition	低碳技术 发展 Develo- pment of low-carbon techn- ologies
气候变化相关风险和机遇类型 Types of risks and opportunities related to climate change	政策法 规风险 Policy and regul- atory risks	技术风	™ Technical risks
气候变化 Ty oppool		转型风险 Transition risks	

				气候相关时络	
气候变化相关风险和机遇类型 Types of risks and opportunities related to climate change	对公司的影响 Impact on the Company	时间范围 Time range	受影响的价值 链范围 Scope of the affected value chain	影响 Climate- related financial	主要应对举措 Main initiatives
市场需求变 化 Changes in market demand	对气候变化的关注可能促使市场倾向于选择低碳产品和服务,从而影响化石燃料的需求;替代燃料、新能源和新产品的快速发展可能给公司造成一定的竞争力。Growing awareness of climate change may drive market preference towards low-carbon products and services, reducing fossil fuel demand: The rapid development of alternative fuels, new energy sources, and new products may exert a certain level of competitive pressure on the Company.	长期 Long-term	自身运营 Internal operation	财务收入减少 Reduce financial revenue	将气候因素纳入投资决策,加大新能源和 替代能源投资力度,大力发展清洁能源, 加大绿色产品开发和生产,向市场提供更 多清洁低碳的能源产品。 Incorporate climate factors into investment decisions, increase investment in renewable and alternative energy sources, actively develop clean energy, Enhance the development and production of green products to offer the market more clean, low-carbon energy options.
公司形象 Company image	低碳形象已成为能源公司的重要影响力标签和利益相关方关注的焦点。如果公司低碳发展目标、达成目标的路径与措施不及预期,可能会对公司的声誉和形象产生影响。A low-carbon image has become an important influence tag and a primary concern for stakeholders of energy companies. Failure to meet the expected low-carbon development goals, along with the paths and measures needed to achieve them, it may negatively impact the Company's reputation and image.	中期 Medium- term	自身运营 Internal operation	财务收入减少 Reduce financial revenue	制定低碳发展目标,细化绿色低碳转型具体部署和举措,强化监督,加快推进公司绿色低碳转型;扩大全方位沟通交流,提升应对气候变化相关信息披露水平和透明度。  Develop low-carbon development goals with detailed plans and initiatives for a green and low-carbon transformation, and strengthen oversight to accelerate the Company's transition to green, low-carbon development; Enhance comprehensive communication and improve transparency and disclosure of climate change-related information.

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逐春 sks s re ha	气候变化相关风险和机遇类型 Types of risks and opportunities related to climate change	对公司的影响 Impact on the Company	时间范围 Time range	受影响的价值 链范围 Scope of the affected value chain	气候相关财务 影响 Climate- related financial	主要应对举措 Main initiatives
	市场转变 Market changes	市场更加追求低碳理念,对传统能源相关行业、产品、企业印象负面。The market is increasingly prioritizing low-carbon principles, resulting in a negative view of industries, products, and companies associated with traditional energy sources.	中期 Medium- term	自身运营 Internal operation	品牌价值下降 Decline in brand value	积极拓展多元化绿色业务。 Actively expand and diversify green businesses.
	利益相关方 期望 Expectations of stakeholders	日益严格的环境表现披露要求,增加了维持或提升声誉的相关合规成本。 The increasingly stringentenvironmental performance disclosure requirements increase the compliance costs associated with maintaining or enhancing reputation.	短期 Short-term	自身运营 Internal operation	提高合规成 本,低财务 影响 Higher compliance costs with minimal financial	实时了解所管各单位各地市场监管要求和披露要求,开展合规工作。 Stay informed about market regulatory and disclosure requirements across all units and regions, and implement compliance measures.
	绿色产品 赛道 Develop green products	"绿电+绿氢"的解决方案带来新的业务增长机会点。 The "green electricity + green hydrogen" solution brings new business growth opportunities.	短期 Short-term	下游 Downstream	提升产品销售收入,高财务影响 影响 Increase product sales revenue, with a significant financial	不断拓展应用场景,探索多行业的解决方案;加大对氢能的技术研发。 Continuously expand application scenarios and explore solutions across various industries; Intensify research and development in hydrogen energy technologies.

*	無別 別 別 別 別 別 別 別 別 別 別 別 別 別 別 別 別 別 別	
主要应对举措 Main initiatives	加强替碳技术研发,以科技手段大力推动 节能、降碳、减污协同增效,稳步推进自 耗能源清洁替代,加大清洁生产和污染 防治。 Enhance the research and development of carbon substitution technologies, vigorously advance energy conservation, carbon reduction, and pollution control for synergistic efficiency gain, steadily promote clean energy alternatives for self-consumption, and enhance efforts in clean production and pollution prevention.	发展清洁能源项目。 Develop clean energy projects.
气候相关财务 影响 Climate- related financial impacts	降低生产成 本、増加财务 收入 Reduce production costs and increase financial revenue	降低能源购置成本,提升财务收入 多收入 Reduce energy purchase costs and increase financial revenue
受影响的价值 链范围 Scope of the affected value chain	自身运营 Internal operation	自身运营 Internal operation
时间范围 Time range	中期、长期 Medium- term, long- term	短期、中期、 长期 Short-term, medium- term, and long-term
对公司的影响 Impact on the Company	碳減排目标促使公司加强技术创新,減少碳排放,提高能源利用率,降低生产成本,提高竞争力。Carbon reduction goals drive companies to enhance technological innovation, reduce carbon emissions, improve energy efficiency, reduce production costs, and enhance competitiveness.	通过发展清洁能源项目和绿色电力购买等措施,可在减少碳排放的同时降低能源购置成本,支持公司在可持续能源领域的发展。 By developing clean energy projects and measures such as purchasing green power, we can reduce carbon emissions while lowering energy procurement costs, thereby supporting the Company's development in the sustainable energy sector.
和机遇类型 s and elated to nge	技术进步 Techn- ological advanc- ements	清沽能源 Clean energy
气候变化相关风险和机遇类型 Types of risks and opportunities related to climate change	气候 机遇 Climate- related oppor- tunities	能源使用效率和测量
气候竣化 Tyl oppor	机温	Opport- unities

2 吉电股份

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形 Typ cli	(候变化相关风险和机遇类! Types of risks and opportunities related to climate change	气候变化相关风险和机遇类型 Types of risks and opportunities related to climate change	对公司的影响 Impact on the Company	时间范围 Time range	受影响的价值 链范围 Scope of the affected value chain	气候相关财务 影响 Climate- related financial	主要应对举措 Main initiatives
	气候机 遇 Climate- related oppor- tunities	业务发展 Business develo- pment	加大生产用清洁能源替代,消纳新能源发电。 Increase the replacement of production with clean energy and utilize new energy generation.	中期、长期 Medium- term, long- term	自身运营 Internal operation	增加营业收入 Increase operating revenue	加快拓展地热、风光发电、氢能以及充电站等新能源业等,大力推动油气和新能源融合发展;建设新能源业务发展基地。Accelerate the expansion of geothermal, wind, solar power generation, hydrogen energy, and new energy businesses such as charging stations, and vigorously promote the integration of oil, gas, and new energy development; Establish development bases for new energy businesses.
机遇 Opport- unities	市场机 遇 Market oppor- tunities	电气化 Electri- fication	各行业的电气化转型及绿色电力消费需求的提高,增加了对可再生能源装备和解决方案的需求。 The transition to electrification across various industries, along with the rising demand for green power consumption, has increased the demand for renewable energy equipment and solutions.	短期 Short-term	下游 Downstream	提升产品销售收入,高财务 影响 Increase product sales revenue, with a significant financial	持续监测市场需求,调整产能;加大对可再生能源解决方案的研发投入。 Continuously monitor market demand and adjust capacity accordingly; Increase investment in the research and development of renewable energy solutions.
	资源效率机温 Resource efficiency oppor- tunities	循环经济 Recycling economy	利用循环技术回收再利用材料和产品工艺设计提升,减少采用原始材料的产品工艺设计提升,减少采用原始材料的制的时能减少原始材料的采购。 Employ recycling technologies to recycle and reuse materials and enhance product design processes, thereby reducing carbon emissions from the extraction and production of raw materials and minimizing the need for their procurement.	短期、中期 Short-term, medium- term	上 以pstream	減少原始材料 的采购成本 Reduce the procurement cost of raw materials	设计精简化减少材料使用,修旧利废;提高使用循环材料的比例。 高使用循环材料的比例。 Simplify designs to minimize material use, and repair and reuse existing materials; Increase the usage of recycled materials.

主要应对举措 Main initiatives	推动和优化能源管理系统,利用智能制造实现节约能源;推动生产工艺优化及节能降碳技术改造;优化能源结构,提高光伏及其他清洁能源的使用。Enhance and optimize energy management systems, leveraging smart manufacturing for energy conservation; Promote the optimization of production processes and energy-saving, carbon-reduction technologies; Optimize energy structure to increase the use of photovoltaic and other clean energy sources.	
气候相关财务 影响 Climate- related financial impacts	能源效率提升 降海 医血性 医皮肤	/
受影响的价值 链范围 Scope of the affected value chain	自身运营 Internal operation	
时间范围 Time range	短期、中期 Short-term, medium- term	N
对公司的影响 Impact on the Company	减少对化石能源及传统能源的 依赖。 Reduce dependence on fossil and traditional energy.	
和机遇类型 s and elated to nge	生产过程采 用低排放和 可再生能源 Employ low- emission and renewable energy sources during the production process	
气候变化相关风险和机遇类型 Types of risks and opportunities related to climate change	能源效 率机遇 Energy efficiency oppor- tunities	4.0
气候变( Ty oppo	机遇 Opport- unities	

吉电护青绿:

环境责任

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### 气候变化指标与目标

吉电股份二氧化碳排放主要通过生产用煤燃烧、车辆汽油燃烧等产生。为进一步降低碳排放,公司编制《碳排放管理办法》,制定《碳达峰行动方案》。

# Climate Change indicators and goals

The carbon dioxide emissions of Jilin Electric Power mainly result from coal combustion for production and gasoline combustion in vehicles. To further reduce carbon emissions, the Company has developed the "Carbon Emission Management Guidelines" and the "Carbon Peak Action Plan".

Ca	碳排放管理措施 arbon emission management measures
碳排放总量和强度"双控"管理 "Dual control" of total carbon emissions and intensity	全面盘查与核查各单位碳排放情况 Conduct thorough audits and verification of carbon emissions for each unit 搭建科学的碳资产管理信息系统 Develop a scientific carbon asset management information system
建立碳排放监测体系 Establish a carbon emissions monitoring system	定期收集和记录排放数据 Regularly collect and record emission data
聘请第三方机构 Hire third-party organizations	确保碳排放数据质量可信可控 Ensure the carbon emissions data is credible and controllable
遵循"一企一策"原则 Follow the principle of "one company, one policy"	对重点排放企业进行深入分析,完成履约清缴 Deep-dive into companies with high emissions for comprehensive compliance and settlement
针对盈余配额 Surplus allowances	科学制定交易策略,深入参与市场交易 Formulate strategic trading plans and actively engage in market transactions

#### 温室气体减排实践 Greenhouse gas emission reduction practices 每日对办公楼各楼层电闸、水源情况进行检查关闭情况 Conduct daily inspections of the power switches and water utilities on each floor of the office building to 推行节约能源和绿 ensure they are properly turned off 色办公理念 推进员工班车使用电动车、氢能源汽车 Pursue energy-Promote the use of electric vehicles and hydrogen fuel cell vehicles for employee shuttles saving and green office concepts 新购置的公务用车优先选用新能源车 Newly purchased official vehicles should prioritize the selection of new energy vehicles 公司本部及所管单位办公楼设计初期,按照绿色低碳建筑相关标准的要求,选用低碳建材,进 行材料减量化设计, 专项优化低碳结构设计 In the initial design phase of office buildings at the Company's headquarter and its subsidiaries, choose low-carbon building materials and employ material reduction design according to the standards for green and low-carbon buildings. Undertake special optimization for low-carbon structural designs 建筑整体四面均可实现自然采光,构建绿色光环境 实现低碳建筑 The buildings should allow natural lighting on all four sides to create a green lighting environment Achieve low-carbon building standards 推行暖通系统、照明系统、电梯等智能化控制,提高综合能源利用效率 Implement intelligent control systems for HVAC, lighting, elevators, and other systems to improve overall energy utilization efficiency 积极探索开发太阳能等可再生能源应用,屋面铺设光伏设施,为日常运营提供绿色能源 Actively explore the application of renewable energy sources such as solar power by installing photovoltaic facilities on the roof to provide green energy for daily operations 2024年,公司本部及所管单位开展生态环保各类培训 1,171 项,累计培训 23,152 人次 推进节能环保知识 In 2024, the Company and its subsidiaries carried out a total of 1,171 eco-environmental training 培训 sessions, involving 23,152 participants Promote energy-组织相关单位参加中电联"碳资产管理培训"、国家电投"生态环保管理人员培训""处级干 saving and 部生态环保管理培训"等 environmental Organize relevant units to participate in the China Electricity Council's "Carbon Asset Management protection Training", SPIC's "Environmental Protection Management Training", and "Environmental Management knowledge training Training for Division-Level Cadres" 参与环保公益活动 在"全国节能宣传周""低碳日"期间,共计24家生产型单位开展节能宣传活动 Engage in During the "National Energy Conservation Week" and "Low Carbon Day", a total of 24 production units environmental held energy-saving promotional activities public activities

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### 纳雍县 150 万千瓦风电项目助力低碳未来

### The 1.5 million kW wind power project in Nayong County fuels a low-carbon future

吉电股份积极主动践行绿色发展理念,依托贵州省资源禀赋,在毕节市纳雍县一次性获取 150 万千瓦风电建 设指标,项目全容量投产后,预计年发电量超过30亿千瓦时,年减排二氧化碳超过300万吨,对优化当地能 源结构、强化电力供应,推动绿色高质量发展具有重要意义。

Jilin Electric Power is actively embracing the concept of green development by leveraging the resource advantages of Guizhou Province. It secured a substantial 1.5 million kW wind power construction quota in Nayong County, Bijie City. Upon full operation, the project is expected to generate over 3 billion KWh of electricity annually and reduce carbon dioxide emissions by more than 3 million tons per year, playing a critical role in optimizing the local energy structure, strengthening power supply, and fostering green, high-quality development.

### 碳资产管理

吉电股份持续加强碳资产管理,持续提升管理能力。报 告期内,公司开展碳数据质量提升专项行动,提升了企 业碳数据质量。公司积极参与全国碳排放权交易市场, 组建专职碳交易团队,统筹控排企业配额盈缺情况,科 学制定碳交易计划,充分发挥碳交易集中管理优势,确 保所属企业全部按期完成碳配额履约任务。公司积极参 与试点和全国碳交易,准确研判碳市场价格走势,超额 高价完成 2024 年度碳交易履约,所属企业均按时完成配 额履约工作,碳交易量 130 万吨。公司积极关注 CCER 重启进展及政策变化,目前重点关注白城光热项目所涉 及的 CCER 相关事项。公司统筹绿电、绿证交易,实现绿 色电力价值。

2024年,累计交易绿电电量近23亿千瓦时,出售绿证 380 万张。



图: 2024年6月,白城发电公司团委开展环保日宣传活动 Picture: In June 2024, the Youth League Committee of Baicheng Power Company conducted an Environmental Day event

# Carbon asset management

Jilin Electric Power is continually enhancing its carbon asset management and strengthening its management capabilities. During the reporting period, the Company carried out a special initiative to improve carbon data quality, having significantly raised the quality of its carbon data. The Company actively participates in the national carbon emissions trading market by establishing a dedicated carbon trading team. This team is tasked with coordinating surplus and deficits in emissions quotas across its controlled entities, developing scientific carbon trading plans, and maximizing the advantages of centralized carbon trading management, so as to ensure that all subsidiaries meet their carbon quota compliance deadlines. We also actively engage in both pilot and national carbon trading markets, accurately assessing the trends in carbon market prices, and successfully completing the 2024 carbon trading compliance with high margins. All subsidiaries completed their quota compliance tasks on time, with a carbon trading volume of 1.3 million tons. We also pay close attention to the progress of CCER restart and related policy changes, with a current focus on CCER issues related to the Baicheng solar thermal project. By coordinating green electricity and green certificate trading, the Company is committed to capitalize on the value of green energy.

By 2024, it traded a total of nearly 2.3 billion KWh of green electricity and sold 3.8 million green certificates.

# 以节约用资源:资源管理

Resource conservation: Resource management

吉电股份遵守《中华人民共和国能源法》《中华人民共 和国节约能源法》等法律法规要求,编制实施《火电节 能管理办法》,建立能源管理体系,指导所属单位制定 《节能管理制度》等制度,每年持续开展节能技术改造, 不断加强能源管控。

公司总经理是公司火电节能工作第一责任人,对节能管 理工作全面负责。下设节能管理工作小组,由总经理任 组长,主管火电生产的副总经理(或总工程师)任副组 长,成员部门包括火电部、规划与发展部(融合办公室)、 计划与财务部、审计部、物资与燃料管理部、科技与数 智化部,对节能管理工作实施领导。节能管理工作小组 主要职责包括执行国家法律、法规、方针、政策、行业 标准和公司实控人的有关要求,审定公司的节能发展战 略、节能发展规划和年度计划等。同时设立节能管理专 兼职人员,建立三级节能网。

公司使用能源的类型集中在煤、电、油、生物质等,主 要通过外购煤炭、柴油、生物质燃料等方式获取。能源 利用主要集中在机组启停、机组运行期间发电(供热) 等生产作业环节、机组检修、技改期间的施工作业环节、 办公环节等。

公司积极推进节能实践,2024年完成白城发电公司2号 机汽封改造、吉林电力股份有限公司松花江第一热电分 公司 4 号炉空预器柔性密封改造等项目。公司还推进了 烟气余热回收,积极推进能源梯级利用,合理规划能源 使用流程,通过推进烟气余热再利用,推进节能降耗和 深度挖潜,努力让每一吨煤产生更多的效益。

2024年公司能源消耗总量为 4,561,995 吨标煤, 较 2023 年同比下降 2.02%。不可再生物料消耗量(公司全年燃 煤消耗量) 9,743,586 吨, 较 2023 年同比下降 2.98%。1

# **Energy management**

In compliance with the requirements of relevant laws and regulations such as the "Energy Law of the People's Republic of China" and the "Energy Conservation Law of the People's Republic of China", the Company has established and implemented the "Thermal Power Energy Conservation Management Measures". It has also established an energy management system to guide its subsidiaries in developing energy-saving frameworks, such as the "Energy Conservation Management System". Every year, the Company consistently enhances energy management through ongoing energy-saving technological upgrades.

The General Manager of the Company holds primary responsibility for energy conservation in the thermal power sector and is fully accountable for energy management. An Energy Management Working Group is established, with each General Manager serving as the leader and the Deputy General Manager in charge of thermal power production (or the Chief Engineer) acting as the deputy leader. The member departments include the Thermal Power Department, Planning and Development Department (Integration Office), Planning and Finance Department, Audit Department, Materials and Fuel Management Department, and the Technology and Digital Intelligence Department, all of which oversee the implementation of energy management. The Energy Management Working Group is primarily responsible for implementing national laws, regulations, policies, industry standards, and the requirements set by the Company's actual controller, and reviewing the Company's energy conservation development strategy, conservation development plans, and annual plans. Furthermore, the Company appoints both fulltime and part-time energy management staff, thus establishing a three-tiered energy network.

The Company primarily uses coal, electricity, oil, and biomass as energy sources, which are mainly obtained through the external purchase of coal, diesel, and biomass fuels. Energy utilization mainly focuses on production operations such as the startup and shutdown of units, power generation (and heating) during unit operation, construction activities during maintenance and technical upgrades, as well as office operations.

The Company is actively advancing energy-saving initiatives, having completed projects such as the No.2 steam seal upgrade at Baicheng Power Company and the flexible sealing renovation of No.4 air preheater at Songhuajiang Thermoelectricity in 2024. The Company has made strides in flue gas waste heat recovery, actively promoting hierarchical energy utilization and strategically planning energy-use

<sup>1</sup> 能源管理数据为生产口径。相关计算参数来自《综合 能耗计算通则》(GB/T 2589-2020)。



processes. By facilitating the reuse of flue gas waste heat, we are driving efforts in energy conservation, consumption reduction, and exploring potential to maximize the benefits from every ton of coal.

In 2024, the Company's total energy consumption is expected to be 4,561,995 tons of standard coal, a 2.02% decrease compared to 2023. The consumption of non-renewable materials (the Company's annual coal consumption) is 9,743,586 tons, a 2.98% decrease from 2023.<sup>1</sup>

	指标 Indicator		单位 Unit	2024
	化石能源消耗量	煤炭消耗量 Coal consumption	吨标煤 tons of standard coal	4,488,598
直接能源消耗量	Fossil energy consumption	柴油消耗量 Diesel consumption	吨标煤 tons of standard coal	1,791
Direct energy consumption	非化石能源消耗量 Non-fossil energy consumption	屋顶光伏 Rooftop photovoltaic	吨标煤 tons of standard coal	2,275
	清洁能源消耗量 Clean energy consumption		吨标煤 tons of standard coal	68,454
间接能源消耗量 Indirect energy consumption  Purchased electricity		吨标煤 tons of standard coal	878	
能源消耗总量 Total energy consum	ption		吨标煤 tons of standard coal	4,561,995

# 案例 Case

### 聚焦双赛道,全力推进示范项目建设 Advancing dual-track strategies to propel demonstration projects construction

山东潍坊风光储基地项目是山东省规划布局的五大清洁能源基地之一,创新性地采用了"盐光互补"发展模式,有效利用了盐碱地资源,促进了新能源的开发利用,既给万亩盐碱滩涂披上"绿衣",更为全省"平价+储能"光伏电站开辟新路径、提供新方案;项目建成投产,年发电量将超30亿千瓦时,年可节约标煤101.25万吨、减排二氧化碳258.75万吨,助力能源绿色低碳高质量发展。

### 案例 Case

The Shandong Weifang Wind-Solar-Storage Base Project is one of the five major clean energy bases planned in Shandong Province. It innovatively adopts a "salt-solar complementary" development model, effectively utilizing saline-alkali land resources to promote the development and use of new energy. This model not only transforms vast saline-alkali tidal flats into "green" areas but also pioneers new pathways and provides fresh solutions for the province's "affordable + storage" photovoltaic power stations. Once operational, the project will generate over 3 billion KWh annually, saving 1.0125 million tons of standard coal and reducing carbon dioxide emissions by 2.5875 million tons annually, thus significantly contributing to green, low-carbon, high-quality energy development.

梨树风光制绿氢生物质耦合绿色甲醇项目符合国家"双碳目标"要求和国家氢能产业中长期发展规划,是公司在绿色氢基领域的重要布局之一,是吉林省"氢动吉林"行动的重要项目;项目配套建设风电 40 万千瓦,已完成配套风电项目核准。

The Lishu Wind-Solar-Green Hydrogen Biomass-Coupled Green Methanol Project aligns with national "dual carbon goals" and the country's medium- to long-term hydrogen energy development plan. It is a strategic component in the Company's green hydrogen-based sector and a key project in Jilin Province's "Hydrogen Jilin" initiative. The project includes constructing supporting wind power capacity of 400,000 kW, with approval for the wind power component already secured.

#### 案例 Case

# 大安风光制绿氢合成氨一体化示范项目 Da'an Integrated Demonstration Project for Green Hydrogen and Ammonia Production

大安风光制绿氢合成氨一体化示范项目新能源建设规模 80 万千瓦,年制绿氢 3.2 万吨,绿氢合成绿氨 18 万吨/年;作为"氢动吉林"行动的启动项目,项目的建设抢占能源革命的发展先机,有利于促进吉林省乃至全国氢能产业的快速发展,具有重要的创新示范和引领意义,先后被国家发改委评为"第一批清洁低碳氢能创新应用工程",中标国家工信部"可再生能源制氢及氢制绿色甲醇、绿氨项目",入库国资委首批"百大工程"项目清单;已完成机械竣工,后续工作有序推进。



图:大安风光制绿氢合成氨一体化示范项目 Picture: Da'an Integrated Demonstration Project for Green Hydrogen and Ammonia Production

The project features a new energy construction capacity of 800,000 kW, aiming to produce 32,000 tons of green hydrogen annually, which will be used to synthesize 180,000 tons of green ammonia each year. As the launch project of the "Hydrogen Jilin" initiative, it capitalizes on the opportunities of the energy revolution and contributes to the rapid development of the hydrogen energy industry in Jilin Province and nationwide. Recognized for its innovation, pioneering, and exemplary significance, the project has been awarded by the National Development and Reform Commission (NDRC) as one of the "First Batch of Clean and Low-Carbon Hydrogen Innovation Application Projects" and won the bid from the MIIT for the "Renewable Energy Hydrogen Production and Hydrogen-Derived Green Methanol and Ammonia Projects". Additionally, it has been listed in the first batch of "Top 100 Projects" by the SASAC. With mechanical construction completed subsequent work is progressing in an orderly manner.

<sup>1</sup> Energy management data is measured on a production basis. Relevant calculation parameters are derived from the "General Principles for Calculation of Total Energy Consumption" (GB/T 2589-2020).

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### 水资源管理

吉电股份遵守《中华人民共和国水法》《中华人民共和 国水污染防治法》《地下水管理条例》《饮用水水源保 护区污染防治管理规定》等法律法规要求,编制《火电 节能管理办法》,公司建立水资源管理体系,设立节能 专业管理岗位,各子分公司明确发电部为水资源管理部 门。公司积极设立水资源指标与目标,关注自用水率、 补充水率、汽水损失率等主要指标, 在每年年初核定各 三级单位耗水率,并积极宣传节水、水资源管理等相关 内容。

公司使用水资源的类型有地表水、中水、水库水等,公 司明确其主要耗水产生在机组发电补水,闭式循环水补 水、尖峰冷却塔补水、湿法脱硫工艺水补水等工艺环节。

公司 2024 年总耗水量 737,476,352 吨,同比下降 4.38%。 其中新鲜用水 24,843,242 吨; 重复用水 712,633,110 吨, 重复用水消耗量占比达 96.63%。

# Water resource management

Adhering to the requirements of relevant laws and regulations such as the "Water Law of the People's Republic of China". "Law on Prevention and Control of Water Pollution", "Regulations on Groundwater Management", and the "Regulations on Pollution Prevention and Management in Drinking Water Source Protection Zones", Jilin Electric Power has developed the "Thermal Power Energy Conservation Management Measures", established a water resource management system, and created specialized positions for energy conservation. Each subsidiary clearly designates its Power Generation Department as the water resource management department. The Company actively sets water resource indicators and targets, focusing on key metrics like the self-use water rate. replenishment water rate, and steam-water loss rate. At the beginning of each year, it evaluates the water consumption rates of each third-level unit and actively promotes awareness on water conservation and water resource management.

The company utilizes various water resources, including surface water, reclaimed water, and reservoir water. It identifies that primary water consumption occurs in processes such as unit power generation water replenishment, closedloop circulating water replenishment, peak cooling tower replenishment, and water replenishment for wet desulfurization processes.

In 2024, the Company's total water consumption reached 737,476,352 tons, with a year-on-year decrease of 4.38%. Its fresh water consumption accounted for 24,843,242 tons, while reused water accounted for 712,633,110 tons, making up 96.63% of the total consumption.



# 以防治控污染:排污管理

Pollution prevention and control: Pollutant discharge management

#### 废水管理

吉电股份遵守《中华人民共和国环境保护法》《中华人 民共和国水污染防治法》等法律法规,制定了《生态环 境保护管理工作规定》等制度,规范废水排放管理要求。 公司通过生产废水处理设施对水污染物进行防治,主要 的处理方式为絮凝或混凝沉淀、澄清等。公司所管火电 厂在电力生产过程中产生一定量的废水,主要类型包括 机组循环冷却水浓缩后产生的废水、机组湿法脱硫设施 在运行中产生脱硫废水、发电机组附属生产设施产生的 工业废水、煤场冲洗产生的含煤废水、生活污水等。

2024年公司在生产运营过程中产生的各类废水均实现回 收再利用,按照不同项目的环评要求,实现废水零排放 或达标排放。公司2024年设立的不发生突发环境事件, 持证、按证排污合格率达 100% 的污染物排放目标全部 完成。

# Wastewater management

Jilin Electric Power adheres to the "Environmental Protection Law of the People's Republic of China", the "Water Pollution Prevention and Control Law of the People's Republic of China", and other relevant regulations. It has developed several systems such as the "Regulations on Ecological and Environmental Protection Management" to standardize the requirements of wastewater discharge management. The Company addresses water pollutants through production wastewater treatment facilities, employing primary methods such as flocculation, coagulation, and sedimentation for clarification. The thermal power plants under our management produce various types of waste water during power generation, mainly including wastewater from the concentration of cooling water in the power units, desulfurization wastewater from the operation of wet desulfurization facilities, industrial wastewater from auxiliary production facilities of the power unit, coal-bearing wastewater from coal yard washing, and domestic sewage.

In 2024, all types of waste water generated during production and operations have been recycled and reused. According to the environmental impact assessment requirements of different projects, the Company is committed to achieving either zero wastewater discharge or compliant discharge. The company has fully achieved all pollutant discharge targets established in 2024, including zero sudden environmental incidents and a 100% compliance rate in holding and operating under valid discharge permits.

主要污染物及特征污染物的名称 Name of major and specific pollutants	排放口数量 ( 个) Number of emission points	平均排放浓度 (mg/L) Average emission concentration (mg/L)	排放总量(吨) Total emissions (tons)
化学需氧量 Chemical oxygen demand	1	78	33
氨氮 Ammonia nitrogen	1	4.15	1.78

#### 废气管理

吉电股份遵守《中华人民共和国大气污染防治法》《环 境监管重点单位名录管理办法》等法律法规,制定了《环 保设施远程监督管理办法》等制度。公司通过烟气除尘、

# Waste gas management

In compliance with the relevant laws and regulations such as the "Law of the People's Republic of China on the Prevention and Control of Air Pollution" and the "Management Measures for the List of Key Environmental Supervision 吉林电力股份有限公司 2024 年度环境、社会及公司治理(ESG)报告 JILIN ELECTRIC POWER CO., LTD. 2024 Environmental, Social and Governance Report

脱硝、脱硫对大气污染物进行防治,主要的处理方式为

电袋/静电/静电+湿式除尘、SNCR/SCR烟气脱硝、石

灰石 - 石膏湿法脱硫等。公司所管火电厂在电力生产过程

中产生一定量的大气污染物,主要是燃料燃烧放热过程

中产生的二氧化硫、氮氧化物、烟尘等。2024年公司在

生产运营过程中产生的二氧化硫、氮氧化物、烟尘等大

走进吉电

吉电赋新能——科技创新

FSG 治理

环境责任

稳定供电

/063 公司治理

Units". Jilin Electric Power has developed systems such as the "Measures for Remote Supervision and Management of Environmental Protection Facilities". The Company addresses air pollutants through flue gas dust removal, denitrification, and desulfurization. The main treatment methods include electrostatic bag + wet dust removal, SNCR/SCR flue gas denitrification, and limestone-gypsum wet desulfurization. The thermal power plants under our management generate a certain amount of air pollutants during power generation, notably sulfur dioxide, nitrogen oxides, and particulate matter from the fuel combustion process. In 2024, the Company successfully achieved compliance emissions of air pollutants such as sulfur dioxide, nitrogen oxides, and smoke dust during its production and operations.

主要污染物及特征污染物的名称 Name of major and specific pollutants	排放总量(吨) Total emissions (tons)	核定的年度排放总量(吨 / 年) Approved annual total emissions (tons/year)	超标排放情况(吨 / 年) Excessive emissions (tons/year)
氮氧化物 Nitrogen oxides	2,368.31	16,209.43	0
二氧化硫 Sulfur dioxide	1,196.97	17,638.94	0
颗粒物 Particulate matter	20.53	1,771.32	0
烟尘 Soot	115.06	1,983.27	0

气污染实现达标排放。

# 吸收塔效率提升改造

# Enhancement of absorption tower efficiency

白城发电公司原脱硫系统,在实际运行过程中因煤质含硫 量较高,入口二氧化硫浓度经常高于 2,000mg/Nm³, 系统 高负荷运行时,必须持续向吸收塔内供石灰石浆液,保证 二氧化硫排放浓度不超标,但长期在此工况下运行,造成 吸收塔内浆液品质不良、塔内结晶、石膏脱水困难等问题, 也同时严重影响了机组长周期安全稳定运行。

The original desulfurization system at Baicheng Power Company faced challenges because of the high sulfur content in the coal, leading to inlet SO2 concentrations frequently exceeding 2.000 mg/Nm<sup>3</sup>. To maintain compliant SO2 emission levels



图: 吸收塔改造 Picture: Retrofit of absorption tower

during high-load operations, it was necessary to continuously supply limestone slurry to the absorption tower. However, extended operations under these conditions led to problems such as poor slurry quality inside the absorption tower, crystallization within the tower, and difficulties in gypsum dewatering, and also significantly impacted the unit's longterm safe and stable operation.

改造后机组满负荷运行时,入口二氧化硫浓度最大在2,200mg/Nm3,出口二氧化硫浓度最高值不超过 35mg/Nm<sup>3</sup>,改造后脱硫提效 20.35%,保障了机组效率,节约了石灰石的用量,降低了硫化物的排放。

After the retrofit, when the unit operates at full load, the maximum inlet SO2 concentration is 2,200mg/Nm³, with an outlet sulfur concentration of around 35mg/Nm3. The desulfurization efficiency improved by 20.35% after the retrofit, ensuring the unit's efficiency, saving on limestone usage, and reducing sulfur emissions.

### 废弃物管理

吉电股份遵守《中华人民共和国固体废物污染环境防治 法》《危险废物转移管理办法》《企业环境信息依法披 露管理办法》等法律法规,制定了《生态环境保护管理 工作规定》。公司紧紧围绕固危废源头减量、资源化利用、 无害化处置三大方向,从政策法规宣贯、体系能力建设、 科研攻关探索、重点项目实施、专项监督检查等方向开 展废弃物管理工作。公司持续强化资金投入、技术等要 素保障力度,加大对固废(危废)减量化、资源化、无 害化资金投入。

固体废弃物处置总量 2,236,853 吨

Total solid waste disposal **2,236,853** tons

回收再利用废弃物总量 2,236,854 吨

Total recycled and reused waste **2,236,854** tons

回收再利用的废弃物占比 100%

**100%** of the waste was recycled and reused<sup>1</sup>

危险废物产生量 359.96 吨

Waste management

Jilin Electric Power adheres to the "Law of the People's Republic of China on the Prevention and Control of

Environmental Pollution by Solid Waste", "Measures for

the Management of Hazardous Waste Transfer", and the "Measures for the Administration of Enterprise Environmental

Information Disclosure in Accordance with the Law". It has

developed several systems such as the "Regulations on

Ecological and Environmental Protection Management". The Company is committed to three main objectives: reducing

hazardous solid waste at its source, maximizing resource

utilization, and ensuring safe disposal. It manages waste

through six strategic avenues: promoting awareness of policies and regulations, enhancing system capabilities, pursuing scientific research, implementing key projects, and conducting specialized supervision and inspections. We continuously

bolster our financial, technological, and other critical support, increasing investments in the reduction, resource utilization.

and harmless treatment of solid waste (and hazardous waste).

Hazardous waste produced 359.96 tons

危险废物处置量 331.03 吨

Hazardous waste disposa **331.03** tons

一般工业固体废物产生量 **2,236,493** 吨

Total general industrial solid waste **2,236,493** tons

综合利用率达

100%

Comprehensive utilization rate

1 回收再利用的废弃物占比 = 回收再利用废弃物总量/ 固体废弃物产生总量 \*100%

The proportion of recycled and reused waste = total recycled and reused waste / total amount of solid waste generated \* 100%

		废弃物处理方法 e disposal methods
	一般废弃物 General waste	对储存场所进行改造,完善现场标识 Enhance storage facilities and improve site signage
	不可回收固体废物 Non-recyclable solid waste	分类收集 Separate collection
无害废弃物 Non-hazardous waste	生活垃圾 Domestic waste	定点收集后委托环卫及时清运 Collect at designated points and entrust sanitation services for timely removal
	一般工业固体废物 General industrial solid waste	实施分类收集、妥善暂存,交由专业处理单位回收处理 Implement separate collection, ensure proper temporary storage, and transfer to professional treatment units for recycling
有害废弃物 Hazardous waste	全面辨识危险废物产生环节 Thoroughly identify the generation stage of hazardous waste 委托有专业资质的单位进行危险废物鉴别 Entrust a professionally qualified unit for waste identification 规范危险废物标志标识 Standardize hazardous waste signs and labels 建立危险废物清单及台账 Create a list and record of hazardous waste 严控收贮风险 Strictly control storage risks 依法依规开展危险废物暂存设施建设和运维,规范分类、分区贮存,严禁露天堆放 Develop and maintain hazardous waste temporary storage facilities in compliance with laws and	

### 噪音管理

吉电股份遵守《中华人民共和国噪声污染防治法》《企业环境信息依法披露管理办法》《排污许可管理办法》等法律法规,制定了《生态环境保护管理工作规定》等制度。公司通过厂房隔声、转动设备降噪、水塔设置挡风帘、厂界设置降噪墙对噪声进行防治,降噪消声。

# Noise management

Jilin Electric Power adheres to the "Noise Pollution Prevention Law of the People's Republic of China Environmental Pollution by Solid Waste", "Measures for the Management of Hazardous Waste Transfer", and the "Measures for the Administration of Pollutant Discharge Permits". It has developed several systems such as the "Regulations on Ecological and Environmental Protection Management". The Company controls noise through by soundproofing workshops, reducing noise from rotating equipment, installing windbreaker curtains on water towers, and setting up noise-reduction walls at the factory boundaries. The primary strategy for noise control is through noise reduction and silencing techniques.

公司或子公司名称 Company or subsidiary name	主要污染物及特征污染物的名称 Name of major and specific pollutants	平均排放浓度 Average emission concentration
白城发电公司	厂界噪声	昼间 59.6dB;夜间 49.5dB
Baicheng Power Company	Factory boundary noise	Daytime: 59.6dB; Nighttime: 49.5dB
吉林吉长电力有限公司	厂界噪声	昼间: 54.7dB; 夜间: 45.3dB
Jilin Jichang Electric Power Co., Ltd.	Factory boundary noise	Daytime: 54.7dB; Nighttime: 45.3dB
四平第一热电公司	厂界噪声	昼间: 56.1dB; 夜间: 47.2dB
Siping First Thermal Power Company	Factory boundary noise	Daytime: 56.1dB; Nighttime: 47.2dB
长春热电公司	厂界噪声	昼间: 52.75dB; 夜间: 42.25dB
Changchun Thermal Power Company	Factory boundary noise	Daytime: 52.75dB; Nighttime: 42.25dB
松花江热电公司 / 吉林电力股份有限公司松花江第一热电分公司 Songhuajiang Thermoelectricity / Jilin Electric Power Songhuajiang First Thermal Power Branch	厂界噪声 Factory boundary noise	昼间 60dB;夜间 49.75dB Daytime: 60dB; Nighttime: 49.75dB



吉林电力股份有限公司 2024 年度环境、社会及公司治理(ESG)报告 JILIN ELECTRIC POWER CO., LTD. 2024 Environmental, Social and Governance Report

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董事长致辞

走进吉电

FSG 治理

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# 以守护保生态:生物多样性

Protection and conservation of ecosystems: Biodiversity

吉电股份严格遵守《中华人民共和国环境保护法》《中华人民共和国环境影响评价法》等国内相关法律以及《生物多样性公约》《湿地公约》等国际公约,将生物多样性保护纳入日常经营管理要求,制定了《推动美丽中国建设暨生态环境保护专项行动方案》《生态环境保护管理工作规定》等制度、方案,明确了不毁林、规避生态保护红线区域等生态保护要求,所管项目在设计、建设和运行阶段,严格落实生物多样性保护措施,降低生产经营对生态环境的扰动,新建项目要优先避绕生态敏感区,确实不能避绕的,要按照生态敏感区主管部门要求开展专项论证,取得主管部门允许穿(跨)越许可;未按要求取得允许穿(跨)越许可时,项目不得开工建设。公司制定了多项风险管理举措,实现了从项目设计到项目建设过程中对生物多样性的全方位保护。

Jilin Electric Power strictly complies with the relevant domestic laws such as the "Environmental Protection Law of the People's Republic of China" and the "Law of the People's Republic of China on the Assessment of Environmental Affects", and international treaties like the "Convention on Biological Diversity" and the "Ramsar Convention". The Company has integrated biodiversity conservation into its daily operational management requirements by establishing systems and plans such as the "Special Action Plan for Building a Beautiful China and Ecological Environmental Protection" and the "Regulations on Ecological Environmental Protection Management". These documents clearly outline requirements such as prohibiting deforestation and avoiding ecological protection red lines. For projects under its management, biodiversity protection measures are strictly implemented during the design. construction, and operational phases to minimize disturbances to the ecological environment. New projects must prioritize avoiding ecologically sensitive areas; if unavoidable, they must conduct special assessments as required by the governing bodies of these sensitive areas and obtain permission for crossing or spanning them. Projects must not commence construction without obtaining such permissions. The Company has developed several risk management initiatives to ensure comprehensive biodiversity protection throughout the entire lifecycle of project design and construction.

#### 案例 Case

# 宿松九成风电项目鸟类防治措施良好实践 Effective bird prevention measures at the Su Song Jiu Cheng Wind Power Project

安庆宿松九成 100MW 风电项目在开发期就着手考虑项目对沿江湿地自然保护区、鸟类等重要环保目标的保护。为避免鸟类撞击风机的现象发生,风电场所有风机叶片上均涂有红白相间条纹防止鸟类撞击。同时结合风电场实际情况建设了一套鸟类自动观测站系统,实现对临近华阳河湖群省级自然保护区内鸟类的自动观测,通过高清摄像机对鸟类进行自动抓拍,实现对不同时段、不同区域出现的鸟类进行多目标实时捕捉和 AI 识别统计,为鸟类动态监测、保护研究、趋势分析提供可靠的数据支撑。场站每周定期存储监控视频,安排工作人员现场巡检,及时记录巡检状况,便于开展风电场对生态环境及鸟类影响的后评价工作。



图: 观鸟监测系统拍到的鸟类活动照片 Picture: Bird activity photos captured by the bird-monitoring system

### 案例 Case

During the development phase, the Jiu Cheng 100MW Wind Power Project at Su Song County, Anqing City, focused on safeguarding significant environmental objectives, such as the Yangtze River Wetland Nature Reserve and local bird populations. To avoid the risk of bird collisions with wind turbines, all turbine blades in the wind farm have been painted with red and white stripes. Additionally, an automated bird observation station system has been established, tailored to the specific conditions of the wind farm. This system facilitates automatic observation of birds within the nearby Hua Yang River Lake Group Provincial Nature Reserve. High-definition cameras automatically capture images of birds, enabling real-time multi-target tracking and Al-based identification and analysis of birds in various locations and times. This provides robust data support for bird dynamic monitoring, conservation research, and trend analysis. The wind farm stores monitoring videos weekly and assigns staff to conduct on-site inspections regularly. Inspection results are promptly recorded to facilitate post-evaluation of the wind farm's impact on the ecological environment and avian species.

#### 案例 Case

# 查干湖风电场开展鸟类迁徙评估并建筑人工鸟巢 Bird migration assessment and artificial nest construction at Chagan Lake Wind Farm

查干湖风电场于 2021 年完成《运行期对迁徙鸟类影响评价报告》,根据查阅资料,风场建设前后,查干湖保护区及其周边迁徙鸟类物种并无变化,结合查干湖区域有效数据资料,建立鸟类迁徙季巡查机制,于每年 4 月、10 月鸟类迁徙高峰期,鸟类集中分布区域加强巡视,并建筑人工鸟巢,及时掌握鸟类群落动态情况。充分、严肃、认真地开展鸟类迁徙期宣传教育活动,加大对报告名录中涉及到鸟类的宣传和普及力度,掌握鸟类常识,提高对野生动物保护政策的认识。

In 2021, Chagan Lake Wind Farm completed an "Impact Assessment Report on Migratory Birds During Operations". According to the reviewed data, there was no change



图:运行期对迁徙鸟类影响 评价报告 Picture:Impact Assessment Report on Migratory Birds During Operations



图: 人工鸟巢 Picture: Artificial bird nests

in migratory bird species in the Chagan Lake Reserve and its surrounding areas before and after the wind farm's construction. Leveraging effective data from the Chagan Lake region, a patrol mechanism was established for the bird migration season. This involves intensified monitoring in densely populated bird areas during peak migration months of April and October each year and the construction of artificial bird nests to keep track of bird community dynamics. Additionally, the Company conducts comprehensive and serious educational activities on bird migration periods to enhance the awareness and dissemination of the bird species listed in the report. This effort aims to improve knowledge about birds and increase awareness of wildlife protection policies.



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# 以关怀促成长: 员工管理

Fostering growth with care: Employee management

### 招聘与就业

吉电股份严格遵守《中华人民共和国劳动法》《中华人民共和国劳动合同法》等法律法规,公司坚持平等原则,遵守《员工管理规定》,提供平等发展机会,构建多元化的人才体系。维护全体员工各项合法权益,为公司高质量发展提供坚强有力的人力资源保障。公司从校园招聘、社会招聘和内部招聘三方面入手,丰富人才储备,不断优化人才结构。公司设立了完备的员工招聘流程,覆盖员工招聘阶段、员工入职阶段以及员工离职阶段。招聘过程全程由公司纪委办监督,确保公正透明,员工入职前进行不少于5个工作日的公示。另外,工会开放员工诉求通道,根据员工的诉求,合理解决处理反映问题。

2024年,吉电股份新聘员工数量 194人,员工流失率 0.29%。

# Recruitment and employment

Jilin Electric Power strictly complies with the "Labor Law of the People's Republic of China" and the "Labor Contract Law of the People's Republic of China" and other laws and regulations. The Company is dedicated to the principle of equality, and adheres to its "Employee Management Regulations," providing equal development opportunities for employees to build a diverse talent system. It protects the legal rights and interests of all employees, offering robust human resource support for the Company's high-quality development. The Company enhances its talent pool and continuously optimizes its talent structure through campus recruitment, social recruitment, and internal recruitment. It has established a comprehensive employee recruitment process that covers the recruitment, onboarding, and offboarding phases. The entire recruitment process is supervised by the Company's Discipline Inspection Office to ensure fairness and transparency. Employee onboarding is publicly announced for at least five working days before commencement. Additionally, the union provides channels for employee appeals and addresses their concerns in a reasonable manner.

In 2024, Jilin Electric Power hired 194 new employees, with a staff turnover rate of 0.29%.

	员工招聘渠道 Employee recruitment channels
校园招聘	开通专项通道,广泛开展校园活动以吸纳人才
Campus recruitment	Establish dedicated pathways and conduct extensive campus activities to attract talent
社会招聘 Social recruitment	针对本部各部门和三级单位招聘需求制定招聘计划和实施方案,通过网络平台、招聘会、猎头等多元化招聘渠道广纳人才 Create recruitment plans and strategies tailored to the needs of each department and level-three units; Leverage a variety of channels, including online platforms, job fairs, and headhunters, to attract a broad range of talent
内部招聘	积极鼓励引导内部员工转岗发展
Internal recruitment	Actively encourage and facilitate career transitions and development for current employees

	员工招聘流程 Employee Recruitment Process
员工招聘阶段 Recruitment stage	在条件设置上以实际岗位需求为标准,符合国家法律法规,严禁就业歧视。 Set the requirements based on actual job needs, ensuring compliance with national laws and regulations, and strictly prohibit employment discrimination. 在条件审核时,注重对应聘者身份年龄的核实,确保员工年龄符合国家法律法规规定的劳务年龄,避免发生雇佣童工事件。 During the review process, carefully verify the applicant's identity and age to ensure compliance with national legal labor age requirements, thus preventing the employment of child labor. 确认聘任条款与实际聘用情况保持一致。 Confirm that the terms of employment are consistent with the actual employment situation.
员工入职阶段 Onboarding stage	向录用员工发送正式入职通知,核实员工入职意愿,确保员工为自愿签署劳动合同,而非其他原因(威胁、证件扣押等)强制入职工作,以预防发生强制劳工事件。 Send formal onboarding notifications to new hires, confirm their willingness to join, and ensure that labor contracts are signed voluntarily, without external pressure such as threats or document retention, to prevent any incidence of forced labor.  入职信息录入端进行年龄审核及卡控,通过信息化手段严格核实员工身份证上年龄相关信息是否属实。 The onboarding entry system conducts age checks and controls, using technology to verify the accuracy of age-related information on employees ID card.
员工离职阶段 Offboarding stage	由员工主动提交署名申请,履行离职面谈等程序,确保员工离职合法合规。 Employees take the initiative to submit signed applications and go through procedures such as resignation interviews to ensure that their resignation is legal and compliant.

公司具有完善的用工制度,严格遵守《中华人民共和国 劳动法》与《中华人民共和国劳动合同法》等法律法规,支持《世界人权宣言与国际人权公约》,遵守国际劳工组织(ILO)及联合国全球契约在人权方面的规定,倡导多元化和机会平等,禁止任何形式的歧视,反对任何形式的强迫劳动和骚扰虐待,杜绝使用童工,公平对待不同国籍、种族、性别、宗教信仰和文化背景的员工。

2024年,公司未收到人权问题投诉,未发生重大劳动争议,不存在雇佣童工的现象。

The Company has a robust employment system, strictly adhering to the "Labor Law of the People's Republic of China" and the "Labor Contract Law of the People's Republic of China", embraces the "Universal Declaration of Human Rights" and international human rights conventions, and complies with the human rights regulations of the International Labour Organization (ILO) and the United Nations Global Compact. We advocate for diversity and equal opportunities, prohibits any form of discrimination, oppose any form of forced labor and harassment or abuse, strictly forbid child labor, and treat employees fairly regardless of nationality, race, gender, religious beliefs, or cultural background.

In 2024, the Company did not record any human rights complaints, major labor disputes, and use of child labor.

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公司在职员工总数为 3.731 人, 劳动合同签订率 100%。

The Company has a total of 3,731 active employees, with a 100% labor contract signing rate.

# 按性别结构划分 By gender 男性 Male 2959 人 女性 Female 772 人

#### 按年龄结构划分

By age



29岁(含)以下≤29



30岁-49岁(含) 30-49 (include) 2162人



50 岁以上 > 50 1005 人

### 薪酬与福利

在制度层面,吉电股份设立了《工资总额管理规定》《员工工资管理规定》《所管领导人员薪酬管理规定》等内部薪酬管理制度。公司构建效率决定用工、效率调整薪酬的管理机制,以全员劳动生产率为核心,强化"对标管理"理念,不断提高核心竞争力,支撑企业可持续高质量发展。充分利用单列考核等管理工具,聚焦发展、创新、经营等核心业务板块,制定目标清晰、导向明确、公平公正的薪酬激励措施。坚持战略性新兴产业与传统产业两端发力,通过多元化激励机制充分激发员工潜能、释放企业活力。

针对绩效考核,公司实施全员绩效管理,建立激励约束机制和绩效面谈机制;全面推行经理人契约化管理,通过年度考评与三年任期考评相结合的方式,强化考评结果与薪酬激励挂钩,并将经理层的薪酬绩效考核与可持续发展绩效建立关联。在绩效反馈与申诉方面,公司明确了申诉处理程序及要求。公司及时向员工反馈绩效考核结果,为有异议的员工提供申诉渠道,充分听取员工的意见和建议,公正地审查和处理,保障员工的知情权和参与权。为实现质的有效提升和量的合理增长,确保圆满完成年度目标任务,聚焦"新能源+"和绿色氢基能源双赛道,以提质增效和高质量发展为主题,全面落实"一分钱"行动,推进存量提质、增量做优、市场营销、亏损治理、深化改革五项工作,公司制定了"存量提质、增量做优"激励方案。

### Remuneration and benefits

At the institutional level, Jilin Electric Power has established internal compensation management systems such as the "Total Salary Management Regulations", "Employee Salary Management Regulations," and "Management Regulations for the Remuneration of Supervised Leaders". The Company has established a management mechanism where efficiency dictates staffing and adjusts compensation, with a focus on overall workforce productivity. It emphasizes the concept of "benchmark management" to continuously enhance core competitiveness and support sustainable high-quality development of the Company. Leveraging management tools such as the separate assessments, the Company focuses on core business sectors like development, innovation, and operations to develop clear objectives and fair, transparent remuneration incentive measures. By fostering both strategic emerging industries and traditional sectors, the Company aims to unleash employee potential and invigorate corporate vitality through a diversified incentive mechanism.

In terms of performance assessment, we implement comprehensive performance management by setting up incentive and constraint mechanisms along with performance interview mechanisms. We fully promote managerial contract management, linking annual appraisal with three-year term appraisal to align appraisal outcomes with remuneration incentives, and connect managerial performance appraisals with sustainable development performance. For performance feedback and appeals, the Company has clearly defined the procedures and requirements for handling appeals. The Company promptly provides employees with feedback on their performance assessments and offers a channel for those with objections to appeal. It actively listens to employees' opinions and suggestions, ensuring a fair review process while safeguarding their rights to information and participation.

在员工福利层面,福利费列支范围包括员工疗养费用、自办职工食堂经费补贴、防暑降温费;员工食堂、集体宿舍发生费用;员工困难补助、体检费用、独生子女费、探亲假路费;离退休人员统筹外费用等。员工依法享有各种法定的带薪假期,包括法定节假日、年休假、婚假、探亲假、丧假、产假、病假、工伤假等。除法定年假及常规事假病假,实施生育奖励假、育儿假和独生子女父母照护假制度。为改善工作环境,公司优化宿舍配置,设置医药箱、健康角、员工餐厅等,购置空气净化器,生活休闲区设置简易健身设施、篮球场、羽毛球活动等场地,为员工提供健身运动场地。

2024年,公司社会保险覆盖率 100%,员工人均带薪休假时间 11 天。



图:场站居住环境改善后环境图 Picture: Improved living conditions at the station



图: 工会为场站员工添置厨房消毒柜 Picture: Union-provided kitchen sanitation cabinet for station employees

### 发展与培训

吉电股份设立了《专业骨干人才库管理办法》《教育培训工作管理规定》等管理制度,在实践层面,公司结合上级有关精神,制定《员工职业发展管理办法》,将员工职业发展划分为基础阶段和进阶阶段,经过基础阶段

To achieve effective improvement in quality and reasonable growth in quantity, and ensure the successful completion of annual goals, The Company focuses on the development of "New Energy+" and green hydrogen-based energy, with a commitment to quality enhancement, efficiency gains, and high-quality development. It fully implements the "One Cent" initiative, which advances efforts in five key areas: enhancing existing stock quality, optimizing new growth, marketing management, loss management, and deepening reforms. Accordingly, the Company has developed an incentive plan emphasizing "enhancing existing stock quality and optimizing new growth".

In terms of employee benefits, the scope of covered expenses includes costs for employee recuperation, subsidies for running employee cafeterias, and heatstroke prevention expenses; costs for employee cafeterias and collective dormitories; hardship allowances, medical examination fees, only-child allowances, travel expenses for home visits; and additional expenses for retired employees beyond the standard benefits. Employees are legally entitled to various types of statutory paid vacation, such as public holidays, annual leave, marriage leave, home visit leave, bereavement leave, maternity leave, sick leave, and work injury leave. In addition to statutory annual leave and regular personal or sick leave, the policy also includes childbirth reward leave, parental leave, and caregiving leave for parents of only children. To improve the working environment, the Company has upgraded dormitory facilities by adding first-aid kits, health stations, employee cafeterias, and air purifiers. Leisure areas have been equipped with basic gym facilities and courts for basketball and badminton, offering employees spaces for physical activities.

In 2024, the Company achieved 100% social insurance coverage, and employees enjoyed an average of 11 days of paid leave.



图:建设场站医疗角 Picture: Medical corner constructed at the station

### **Development and training**

Jilin Electric Power has established management systems such as the "Professional Core Talent Pool Management Measures" and the "Education and Training Work Management Regulations". On a practical level, the Company has developed the "Employee Career Development Management Measures"

发展之后,在进阶阶段拓宽职业发展空间,分设经营管理、 专业技术、操作技能三条职业发展通道,全面推进三支 人才队伍建设工作,对不同通道设计不同的层级结构, 明确各序列、各层级的晋升路径和标准,为员工提供更 加公平、透明的发展机会。

based on directives from higher authorities, categorizing employees career development into basic and advanced stages. After completing the basic stage, employees can expand their career opportunities during the advanced stage through three distinct career paths: business management, professional technical skills, and operational skills. This approach promotes the development of three talent streams. with different hierarchical structures designed for each path, clearly defining promotion paths and standards for each sequence and level, thereby providing employees with more fair and transparent opportunities for development.

# 

<sub>员工培训投入金额</sub> 1,364.04 万元

Invested a total of RMB 13,64 million in employee training

公司层面组织员工培训 52 项次, 8,700 人次参加培训

Organized 52 training sessions at the Company level, with 8,700 participants

全系统 76,500 余人次参加各层级培训

Across the entire system, more than 76,500 individuals have taken part in various levels of training

培训覆盖率法 100%

Achieved a 100% training coverage rate

2024年公司76名工程项目管理人员、21名安全生产管 理人员、55 名营销专业人员参加取证认证培训,294人 次通过公司技术监督资格认证,累计110余人次取得注 册安全工程师。

In 2024, the Company had a total of 76 engineering project managers, 21 safety production managers, and 55 marketing professionals participate in certification training. A total of 294 individuals passed the company's technical supervision qualification certification, and over 110 individuals obtained the registered safety engineer certification.

#### 员工培训 **Employee training** 围绕"均衡增长战略"及"新能源+"、绿色氢基能源双赛道 Focused on "balanced growth strategy", and dual paths of "new energy +" and green hydrogen-业务部门+培训中心(党 based energy 校分校) 上下联动机制 组织新能源场站负责人、战略落地、外派董监事等培训班次、调考、技能竞赛等30余 Coordination mechanism between business Organized over 30 activities, including training sessions, assessments, and skill competitions for departments and training leaders of new energy stations, strategy implementers, and external board supervisors center (Party School 印发考核诵报 20 余期次,考核结果与所管单位月度绩效挂钩 Branch) Issued over 20 performance assessment reports, linking results with the monthly performance metrics of managed units 组织参与国家电投主体 800 余人次参加 班、新锐、菁锐、智锐 Engaged more than 800 participants 训练营等培训 110 余项次 Organized and Conducted over 110 activities participated in training 20 余人次获得优秀学员 programs such as the Recognized over 20 individuals as outstanding trainees SPIC Principal Class, Emerging Talent Camp, 公司连续 4 年获国家电投新锐训练营优秀组织奖 Proficient Talent Camp, The company has been honored for four consecutive years with the SPIC Emerging Talent Camp and Intelligent Talent **Excellent Organization Award** Camp 开展集控值班员持证上 岗培训考核 6家火电单位主、副值、巡操岗位402人次通过认证 Implemented certification Certified 402 individuals across six thermal power units, including primary, deputy, and patrol training and assessment positions for centralized control operators 职业技能等级评价工作,详细制定评价工作安排,初、中、高级工通过213人次,技师、 开展 2024 年度电力行 高级技师申报 22 人次,均为近年最高 业技能人员评价 Developed detailed plans for evaluating occupational skill levels, having achieved the highest numbers in recent years with 213 certifications at the junior, intermediate, and senior levels, and 22 Conducted the 2024 applications for technician and senior technician qualifications evaluation of skilled personnel in the power 高级工以上高技能人才已达 1,164 人次,超额完成占比 30% 的阶段性目标 industry The number of highly skilled personnel at the senior worker level and above reached 1,164, surpassing the phase target by 30% 编制关键岗位的胜任力 标准、培训大纲和认证 牵头火电、新能源和氢能关键产业板块,制定97个关键岗位的胜任力标准、培训大纲和 方案 Developed competency Took a lead in key sectors such as thermal power, new energy, and hydrogen energy, and developed standards, training a total of 97 competency standards, training outlines, and certification schemes for critical outlines, and certification positions schemes for critical positions

### 大安吉电绿氢能源有限公司组织新入职员工培训 New employees training at Jilin Electric Power (Da'an) Hydrogen Energy

为提升大安吉电绿氢能源有限公司人员管理能力、水平和凝聚力,围绕公司发展战略、公司发展史和公司规 章制度流程,从党风廉政建设、党规党纪、项目发展、安全生产等方面,公司本部各职能部门开展"送教上门", 对大安吉电绿氢能源有限公司全体管理人员和骨干班组长进行了全面的专项培训,帮助大安吉电绿氢能源有 限公司新入职员工快速融入并适应吉电股份环境与文化,增强对企业的认知度,培养企业归属感和荣誉感, 树立统一的企业价值观。

To enhance the personnel management capabilities, proficiency, and cohesion of Jilin Electric Power (Da'an) Hydrogen Energy, the headquarter' functional departments conducted on-site training focused on the Company's development strategy, history, and rules and procedures, covering themes like Party conduct and integrity, Party regulations and discipline, project development, and safety production. This comprehensive training targeted all management staff and key team leaders, assisting new employees in quickly integrating with and adapting to the environment and culture of Jilin Electric Power (Da'an) Hydrogen Energy. The goal was to increase familiarity with the Company, cultivate a sense of belonging and pride, and establish a unified set of corporate values.



图: 大安吉电绿氢能源有限公司新入职员工专项培训 Picture: Special training for new employees at Jilin Electric Power (Da'an) Hydrogen Energy

### 组织新能源场站负责人培训班及交流座谈会 Organizing training courses and exchange forums for new energy station managers

吉电股份党委高度重视新能源场站负责人队伍建设,今 年组织策划两期专题培训班及交流座谈会。公司主要领 导先后两次与学员开展交流座谈。为确保培训取得实效, 公司精心设计规范安全管理、提高应急处突能力、典型 事故案例分析、智慧化场站建设等多个授课主题,由本 部部门负责人及业务骨干担纲授课,来自10余家基层 单位共计70名场站负责人参加培训。

The Jilin Electric Power Party Committee places a high priority on developing managers for new energy stations. Throughout the year, they organized and planned two specialized training courses and exchange forums. Main leaders of the Company engaged in two rounds of discussions with the participants. To ensure the training effectiveness, the Company carefully designed a range of lecture topics, such as standardized safety management, enhancing emergency response capabilities, analysis of typical



图: 第二期新能源(综合智慧能源)场站负责人培训班 及交流座谈会

Picture: The second training course and exchange forum for new energy (comprehensive smart energy) station managers

accident cases, and the construction of smart stations. Leaders and key staff from the headquarter were responsible for delivering the lectures. A total of 70 station managers from over ten grassroots units participated in the training.

### 两名选手闯进首届全国"红旗杯"班组长大赛决赛 Two Competitors advance to the finals of the first National "Hongqi Cup" **Team Leader Competition**

2024年7月,首届全国"红旗杯"班组长大赛电力赛道 复赛在广州隆重举行。本次比赛电力赛道初赛报名人数 超过13万人,13家电力集团199名优秀班组长进入复赛, 40 名获一等奖选手进入决赛。多名员工取得了优异的成 绩,展现了扎实的专业功底。

In July 2024, the semi-finals of the power track of the first National "Hongqi Cup" Team Leader Competition were held in Guangzhou. More than 130,000 participants registered for the preliminary round of the power track in this competition. Out of these, 199 outstanding team leaders from 13 power groups advanced to the semi-finals, while 40 first-prize winners secured spots in the finals. Several employees have achieved excellent results, demonstrating strong professional expertise.



图: 吉电股份所属东北区域公司员工领取一等奖 Picture: Employees from the Northeast Regional Company of Jilin Electric Power receiving the first prize

ESG 治理

### 员工关爱与帮扶

吉电股份始终秉持"感情化人"的理念,为人才提供全方位关怀政策,不仅涵盖日常工作支持,还着重关注员工的身心健康,致力于打造一个工作舒适、心情舒畅的良好环境,公司深知,让人才在组织关爱中感受温暖,能够有效提升团队精神和凝聚力。为此,公司不仅在物质层面给予职工保障,还通过一系列的关怀行动和丰富多样的活动,从精神层面满足员工需求,旨在提升员工的幸福感,促进员工的全面发展,从而推动公司的可持续发展。

### **Employee care and support**

Jilin Electric Power consistently adheres to the philosophy of "emotional connection" by offering comprehensive care policies for its employees. This not only includes support for daily work but also emphasizes the physical and mental health of employees. The Company is committed to creating a work environment that is comfortable and uplifting, recognizing that employees who feel cared for are more likely to contribute positively to team spirit and cohesion. To achieve this, the Company provides both material support and fulfills the psychological needs of employees through a variety of care initiatives and engaging activities. These efforts aim to enhance employee happiness and promote their overall development, thereby supporting the Company's sustainable growth.

员工关爱与帮扶实践 Employee care and support practices	
年度"办实事清单" Annual "action list"	通过领导调研、问卷调查、"SPIC- 家园"合理化建议征集等方式共确定 87 项清单内容 Identified 87 action items through leadership surveys, questionnaires, and the "SPIC-Home" suggestion collection
职工慰问与帮扶 Employee visits and support	组织开展春节值班、迎峰度夏、防汛保电一线职工慰问,年内慰问救助困难员工 96 人次、慰问一线员工 3,473 人次,累计慰问金额 105.5 万元。Organized visits and support for staff working during the Spring Festival, peak summer operations, and flood prevention and electricity maintenance. In the past year, 96 support visits for needy employees and 3,473 visits to frontline staff were conducted, with a total assistance fund of RMB 1.055 million.
心理健康 Mental health	组织开展职工心理健康测查 3,602 人 Conducted mental health assessments for 3,602 employees 心理健康辅导 9 场 Hosted 9 mental health counseling sessions 职工大访谈、大调研工作 606 人 Conducted 606 employee interviews and research activities
女工权益 Rights of female workers	举办"三八"妇女节系列健康讲座及观影系列活动,切实保障女工权益和身心健康 Organized a series of health seminars and film screenings for International Women's Day to genuinely safeguard the rights and wellness of female workers

续表

### 员工关爱与帮扶实践 Employee care and support practices

"最美春联"评选活动 "Most Beautiful Spring Couplets" selection activity	征集作品 210 幅,评选"最美春联"19 幅 Collected 210 works and selected 19 "Most Beautiful Spring Couplets"
新中国成立 75 周年摄影、征文、书画作 品评比 Photography, writing, and calligraphy selection activity for the 75th Anniversary of the Founding of the People's Republic of China	征集作品 225 个,评选优秀作品 36 幅 Collected 225 works and selected 36 outstanding works
"'羽'你同行 '乒'出精彩"职工羽 毛球、乒乓球赛活动 "Together with Badminton and Ping Pong for Excellence" employee tournament	累计 1,765 人参加 A total of 1,765 employees took part
庆祝新中国成立 75 周年唱红歌、与国旗 合影专题活动 Celebration the 75th Anniversary of the Founding of the People's Republic of China: Red Song Singing and National Flag Photo events	累计征集青年国旗合影影像 67 份,青年唱红歌视频 13 个 Collected 67 youth photos with the national flag and 13 videos of youth singing red songs





图:"羽你同行、乒出精彩"员工羽毛球、乒乓球赛活动图 Picture: "Together with Badminton and Ping Pong for Excellence" employee tournament

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图:公司员工与心理健康讲师进行"OK牌"互动 Picture: Company employees interacting with the psychological health lecturer during the "OK Cards" session



图: 长春康林心理医院心理讲师为公司本部员工进行"压力和情绪的合理应对" 主题心理讲座

Picture: Psychological lecturer from Changchun Kanglin Psychological Hospital giving a thematic lecture on "Proper Handling of Stress and Emotions" for the Company's headquarter employees



图:中秋节前夕,公司党委书记、董事长杨玉峰到东乌珠穆沁旗吉电国储能源有限公司珠恩嘎达布其口岸百万吨储煤基地调研并慰问基层员工

Picture: Before the Mid-Autumn Festival, ang Yufeng, the Company's Party Committee Secretary and Chairman, conducted a site visit and greeted grassroots employees at the Zhungeer Gadaqi Port million-ton coal storage base of Jilin New Energy (East Ujimqin Banner) National Storage Energy

### 民主管理

吉电股份不断优化完善《企业民主管理办法》《工会经 费使用管理规定》等民主管理制度,充分履行职工代表 大会、经费审查委员会等职权,审议表决涉及职工切身 利益的重大事项,保障职工群众的知情权、参与权、表 达权和监督权,为公司高质量发展构建充分民主的法治 环境。

### **Democratic management**

Jilin Electric Power continuously enhances its democratic management systems, such as the "Enterprise Democratic Management Measures" and the "Trade Union Fund Usage Management Regulations". By fully exercising the authority of the Workers' Congress and the Funding Review Committee, the Company deliberates and votes on major issues affecting employees' vital interests, ensuring their rights to information, participation, expression, and supervision, thereby fostering a democratic legal environment conducive to high-quality development.

	民主管理渠道 Democratic management channels
职工代表大会 Workers' Congress	征集提案 14 项,采纳 8 项 Collected 14 proposals, with 8 being adopted
意见征集 Opinion collection	职工意见表达渠道,通过领导调研、问卷调查、 "SPIC- 家园" 合理化建议征集等方式 Channels for employee feedback include leadership surveys, questionnaires, and the "SPIC-Home" suggestion collection "我为企业献一策" 合理化建议征集活动 "Offer a Strategy for the Company" rationalization suggestion collection activity 共征集合理化建议 96 条,评选合理化建议金奖 2 条,优秀合理化建议 18 条 Collected a total of 96 suggestions, awarding 2 Gold Awards and recognizing 18 as excellent suggestions
经费审查委员会 Funding Review Committee	实行"统一领导,分级管理"的财务体制 Implements a financial system of "unified leadership and decentralized administration" 合理编制年度工会经费预算并履行规定审批程序,接受全体会员监督 Prepares the annual union budget rationally, following the required approval processes, and being subject to supervision by all members

吉电护青绿:

环境责任



吉电护青绿:

环境责任

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### 以协同稳供应: 供应链管理

Ensuring stability through collaboration: Supply chain management

### 供应商管理

吉电股份严格遵守《中华人民共和国招标投标法》等法律法规,在制度层面,公司制定了《采购管理规定》《招标采购工作管理办法》等内部管理制度,公司应用统一建立的供应商管理系统,包括制度体系、管理模式、评价标准、信息化系统,对供应商进行合格供应商评审、履约评价、不良行为记录和处置等。各层级职能明确,高效、专业分工与协作,确保各项管理工作。

公司平等对待中小企业,保护其基本权利,积极支付相关款项。截至 2024 年末,公司无逾期未支付款项。

### Supplier management

Jilin Electric Power complies with the "Bidding Law of the People's Republic of China" and other relevant laws and regulations. At the institutional level, the Company has formulated internal management systems such as the "Procurement Management Regulations" and the "Tender Procurement Management Measures". The Company utilizes a uniformly established supplier management system, which includes a systematic framework, management model, evaluation standards, and information systems, to conduct evaluations of qualified suppliers, performance reviews, and record and handle misconduct. Each level has well-defined functions, with efficient and professional division of labor and collaboration to ensure effective management.

The Company treats small and medium-sized enterprises equally, safeguarding their basic rights and ensuring timely payments. As of the end of 2024, the Company recorded no overdue payments.

#### 决策层 Decision-making leve

公司采购领导小组,负责审批公司集中采购范围内合格供应商评价结果;审批公司供应商不良行为的认定结果和处置意见;负责供应商绩效评价的领导工作;负责二级供应商绩效评价的领导工作,审批公司供应商分等结果;负责供应商反映情况核查和处置的领导工作,研究确定供应商反映情况重大问题的处置等,每月召开会议。

The Company Procurement Leadership Team is in charge of approving the evaluation results of qualified suppliers within the scope of centralized procurement; approving the determination results and handling opinions of undesirable supplier behavior; leading the performance evaluation of suppliers; overseeing the performance evaluation of secondary suppliers and approving the classification results of suppliers for the Company; leading the investigation and handling of supplier feedback, and studying and determining the handling of significant issues reported by suppliers. Meetings are held monthly.

#### 执行层 Execution leve

物资与燃料管理部,贯彻执行公司供应商管理相关制度,制定公司供应商管理办法,研究供应商管理策略,完善供应商管理机制;负责组织建立、管理公司统一的供应商库,负责公司供应商绩效评价管理,研究评价结果及应用;负责公司供应商不良行为的记录,提出处置建议,执行公司对不良行为供应商的处置决定等工作;负责公司供应商反映情况的核查和处置工作;负责指导、监督和检查公司所管各单位依法合规开展供应商反映情况核查工作。

The Material and Fuel Management Department is responsible for implementing the Company's supplier management policies, developing supplier management guidelines, researching management strategies, and enhancing the management framework. Additionally, it is responsible for organizing and managing the company's unified supplier database, managing the performance evaluations of company suppliers, and researching and applying evaluation results; recording undesirable behavior by suppliers and making handling suggestions, and executing the Company's decisions on dealing with such suppliers; investigating and handling supplier feedback, as well as guiding, supervising, and inspecting the units managed by the Company to ensure they conduct supplier feedback investigations in accordance with laws and regulations.

### 供应商管理体系 Supplier management system 实行供应商统一注册登记 Implement unified supplier registration 供应商注册采取自愿原则,按规定在供应商管理信息系统进行网上注册 供应商寻源 Supplier registration is voluntary and must be completed online through the Supplier Management Supplier Information System according to the regulations sourcina 供应商注册信息经审核通过后,供应商具备为公司提供产品或服务的有关条件,成为潜在供应商 Once the supplier's registration details have been reviewed and approved, the supplier qualifies to provide products or services to the Company, thus becoming a potential supplier ·具有独立的法人资格或签订合同能力 Have independent legal status or the capacity to sign contracts · 具有履行合同的能力和良好的履约业绩 Demonstrate the ability to fulfill contracts and have a good performance record 具有完善的质量保证体系 Maintain a comprehensive quality assurance system · 具有良好的财务状况 Have a stable financial condition ·具有与本企业经营范围相符的资质条件,并符合国家和行业相关规定 供应商准入 Hold qualifications that align with the Company's business scope and comply with relevant national and Supplier industry regulations admission ·没有被国家机关责令停产、停业或正处于财务被接管、冻结、破产的状态 Not be ordered by national authorities to cease production or operations, nor be under financial receivership, freezing, or in a state of bankruptcy ·没有涉及正在诉讼的重大案件,或虽涉及但经认定不会对其履行合同造成重大影响 Not be involved in significant ongoing litigation, or if involved, it must be determined that it will not significantly impact contract performance ·近 18 个月内没有发生较大及以上生产安全责任事故 Record no major or more severe production safety incidents in the past 18 months ·没有处于因严重不良行为受到公司相应处置的状态 Not be subject to the Company sanctions due to seriously adverse behavior ·按"动态更新、年度评价"的原则,基于供应商信息系统开展全生命周期评价,按"采购、签约、 履约"三个阶段制定评价指标体系(共计64项评分细则),供应商发生指标体系内列举的问题, 按相应的标准分值进行扣分 According to the principles of "dynamic updates and annual evaluations", we conduct a full lifecycle assessment using the supplier information system. An evaluation index system, consisting of 64 specific scoring criteria, is developed for the three stages: "procurement, contract, and performance". Suppliers are subject to deductions according to specific standard scores if they encounter issues listed in the index 供应商评价 Supplier 供应商分为五个等级: 战略供应商、优秀供应商、良好供应商、一般供应商和不合格供应商。对 evaluation 于综合绩效得分在60以下的不合格供应商,暂停其下一评价年度的中标资格;在公司合格供应商 名录内的,从名录中剔除;正在申报合格供应商评审的,按不合格处理 Suppliers are categorized into five levels: strategic, excellent, good, general, and unqualified. For unqualified

suppliers with a comprehensive performance score below 60, their eligibility for winning bids will be

suspended for the next evaluation year. If they are listed in the Company's directory of qualified suppliers,

they will be removed. If they are currently applying for qualified supplier status, they will be considered

unqualified

吉林电力股份有限公司 2024 年度环境、社会及公司治理(ESG)报告 JILIN ELECTRIC POWER CO., LTD. 2024 Environmental, Social and Governance Report 关于本报告

董事长致辞

走进吉电

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公司积极主动履行央企政治责任和社会责任,将"绿色 发展、服务公众、诚信为本、合作共赢"的 ESG 理念纳 入采购理念,在采购环节中,增加了"供应商行为政策" 的单独专篇,将ESG理念贯穿吉电股份的各层面、全过程, 协同供应商在劳工权益、健康安全、环境保护、商业道德、 管理体系要求等方面,推动可持续发展,实现企业与社 会的共赢。

The Company has integrated ESG principles into its procurement philosophy, proactively fulfilling its political and social duties as a state-owned enterprise. It pursues the ESG philosophy " Green Development, Serving the Public, Upholding Integrity and Achieving Win-Win Cooperation". In the procurement process, a dedicated section called "Supplier Code of Conduct" has been introduced, ensuring that ESG principles are embedded at all levels and throughout all processes of the Company. It collaborates with suppliers to promote sustainable development in areas like labor rights. health and safety, environmental protection, business ethics, and compliance with management system requirements, aiming for mutual benefits for both the Company and society.

供应商数量	563家
Number of suppliers:	563
供应商《廉洁协议》签订率	100%
Signing rate of supplier "Honesty and Integrity Agreement":	100%
供应链风险事件数量	0↑
Number of supply chain risk events:	0
符合 ESG 审核供应商数量占比	100%
Proportion of suppliers passing ESG audits:	100%

### 供应链管理

吉电股份建立了完善的物资管理体系,制定包括供应链 管理、供应商管理等多个方面的相关制度,确保供应链 各环节之间的顺畅运作和高效协同, 所有采购合同均签 署保廉、廉洁协议,每年度开展供应商评价工作,对采 购过程、签约过程、履约过程全环节进行评价。

公司规划制定了对采购计划、订单处理、积压库存消耗 等监管要求,如粉煤灰道路运输的监管,危化品道路运 输线路规划的监管等。公司坚持公开采购,拓展供应商 资源,形成良性的市场竞争。通过拓展多元化采购方式、 建立长期稳定的合作关系等方式,提高抗风险能力及响 应能力,确保供应链的稳定性和可靠性,如与哈尔滨汽 轮机厂签订年度备件框架协议。

### Supply chain management

Jilin Electric Power has developed a robust material management system, establishing regulations covering various aspects such as supply chain and supplier management. This ensures seamless operation and efficient cooperation across all stages of the supply chain. Every procurement contract includes an integrity and anticorruption agreement. The Company conducts annual supplier evaluations, assessing every stage of the procurement, contracting, and fulfillment processes.

The Company has established regulatory requirements for procurement planning, order processing, and backlog inventory consumption, such as the oversight of fly ash road transport and the planning of routes for hazardous materials transport. Committed to transparent procurement, the Company expands its supplier resources to foster healthy market competition. By diversifying procurement methods and establishing long-term partnerships, it aims to boost risk resilience and responsiveness, ensuring a stable and reliable supply chain. An example of this is the annual spare parts framework agreement signed with Harbin Turbine Factory.

### 建设开发招标采购管理一体化平台

### Development of an integrated bidding and procurement management platform

吉电股份招标采购一体化平台是在我国电力行业转型升级的大背景下,积极响应国家关于电力行业供给侧结 构性改革的要求,以提高电力系统运行效率和降低电力企业运营成本为目标,推进电力行业物资供应链一体化、 智能化、绿色化的重要举措。平台致力于构建一个高效、透明、协同的招标、采购计划管理平台,有效提升 公司物资管理水平、促进降本增效、防范化解各类风险。

The integrated bidding and procurement management platform by Jilin Electric Power emerges amidst the transformation and upgrading of China's power industry. It actively aligns with national directives for supply-side structural reform in the power sector, targeting enhanced power system efficiency and reduced operational costs for power enterprises. This initiative is a crucial step towards promoting the integration, intelligence, and sustainability of the industry's material supply chain. The platform focuses on creating an efficient, transparent, and collaborative bidding and procurement management system. It significantly boosts the Company's material management capabilities, fosters cost reduction and efficiency, and prevents various risks.

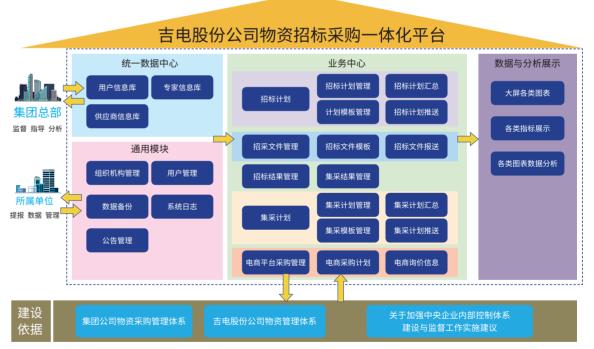


图: 开发招标采购管理一体化平台

Picture: Development of an integrated bidding and procurement management platform

吉林电力股份有限公司 2024 年度环境、社会及公司治理(ESG)报告 JILIN ELECTRIC POWER CO., LTD. 2024 Environmental, Social and Governance Report

董事长致辞

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走进吉电

### 以服务优体验:客户管理

Enhancing experience through excellent service: Customer management

### 全流程客户服务

吉电股份始终坚持"以客户为中心"的理念,制定了《市场营销管理规定》等售后服务与客户投诉制度,搭建服务精英、技术支持、专家服务团队以高效解决各级客户服务中的技术难题,并开展服务人员培训,实现售前、售后、客户回访的全方面服务。

## Comprehensive customer service process

Upholding the principle of "Customer-centered", Jilin Electric Power has developed several systems for after-sales service and customer complaints. It has established specialized service teams, including elite service members, technical support, and expert consultants, to efficiently address technical issues across different levels of customer service. Additionally, the Company provides trainings for service personnel to ensure a comprehensive service experience encompassing pre-sales, after-sales, and customer followups.

	全流程客户服务 Comprehensive customer service process
售前 Pre-sales	·提供电力零售市场规则咨询等服务 Provide consultancy on electricity retail market rules ·基于客户需求分析与客户画像,分类制定服务策略 Develop tailored service strategies based on customer needs analysis and profiling ·积极为客户提供节能管理、需求侧响应、用电策略优化、绿电和绿证交易、低碳服务等一体化综合能源服务 Offer integrated energy services to customers, including energy-saving management, demand-side response, electricity strategy optimization, green power and certificate trading, and low-carbon services
售后 After-sales	·持续关注市场变化和客户需求,不断优化服务策略和产品套餐,以满足客户多样化的需求 Continually monitor market changes and customer needs to optimize service strategies and product packages to meet diverse customer requirements
客户回访 Customers follow-up	·根据《售电公司业务标准化 2.0 版》建立了完整的《客户管理跟进系统》 Established a comprehensive "Customer Management Follow-Up System" based on the "Power Sales Company Business Standardization Version 2.0" ·制定了客户回访计划,组织开展线上和线下相结合的回访活动 Developed a customer follow-up plan, organizing both online and offline follow-up activities ·结合回访向客户发送《客户满意度调查表》,分析客户对服务的满意度,并在此基础上帮助公司 找准客户重要关注点 In combination with follow-ups, distributed "Customer Satisfaction Survey Forms" to customers to analyze their satisfaction with the services provided, which helps us pinpoint key areas of customer concern

客户满意度调查覆盖率	100%
Customer satisfaction survey coverage rate:	100%
客户满意度得分	<b>100</b> 分
Customer satisfaction score:	100

环境责任



### 全面推进"客户服务月"活动

### Comprehensive promotion of "Customer Service Month" activity

2024年8月中旬,吉电股份市场营销部组织开展"以卓越服务,筑发展基石"为主题的"客户服务月"活动,通过制定详细的活动方案确保各项工作稳步推进,客户满意度调查、服务技能培训、需求侧响应调研、"双碳"市场拓展等工作有序开展,旨在深入了解客户需求、提升员工服务技能、创新服务模式,为客户提供更加优质的服务。

In mid-August 2024, the Marketing Department of Jilin Electric Power organized a "Customer Service Month" activity themed "Building the Foundation of Development with Excellent Service". The Company developed a detained activity plan to ensure the steady progress of various tasks, such as customer satisfaction surveys, service skills training, demand-side response research, and "dual carbon" market expansion. The initiative aimed to deeply understand customer needs, enhance employee service skills, innovate service models, and provide higher quality services to customers.



图: "以卓越服务,筑发展基石"客户服务月启动会
Picture: The launch event of Customer Service Month themed "Building the Foundation of Development with Excellent Service"

### 数据安全管理

吉电股份严格遵守《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》以及《中华人民共和国 网络安全法》等法律法规,在制度层面,制定《网络安 全管理规定》《网络安全信息通报实施办法》《数据管 理办法》等相关制度。公司建立网络安全防御体系,对 发生的网络安全事件划分等级,明确各单位职责与分工, 有序采取预警响应、应急处置、调查评估、预防和保障 工作,定期开展网络安全攻防演练,确保风险清零。公 司协同国家电投网络安全运营中心,常态化监测网络安 全状态,发现隐患漏洞,快速处置网络异常行为威胁。



### Data security management

Jilin Electric Power strictly complies with the relevant laws and regulations such as the "Data Security Law of the People's Republic of China," the "Personal Information Protection Law of the People's Republic of China," and the "Cybersecurity Law of the People's Republic of China". At the institutional level, the Company has established systems such as "Network Security Management Regulations", "Network Security Information Reporting Measures", and "Data Management Measures". The Company has developed a network security defense system that categorizes network security incidents by severity level and clearly defines the responsibilities and roles of each unit. It takes organized actions for early warning responses, emergency handling, investigation and assessment, prevention, and safeguarding. Regular cybersecurity attack and defense drills are conducted to ensure that risks are reduced to zero. In collaboration with the SPIC's Network Security Operations Center, the Company continuously monitors network security, identifies potential vulnerabilities, and swiftly addresses abnormal network threats.

## 数据安全治理体系 - 网络安全领导小组

Data security governance system - Cybersecurity Leading Group	
由总经理担任组长 Led by the General Manager	· 贯彻执行政府主管部门有关网络安全管理方面的法律法规、方针政策及各项工作要求 Implements and enforces laws, regulations, policies, and requirements regarding network security management from relevant government authorities · 审定公司网络安全、自主可控的发展战略和重大决策 Reviews and approves the Company's strategies and major decisions on network security and its independent and controllable initiatives · 组织协调并处置公司网络安全管理方面的重大问题 Coordinates and addresses major issues in the Company's network security management
在科技与数智化部设立办公室 Established an office within the Technology and Digital Intelligence Department	·统筹协调公司网络安全、自主可控的整体工作 Coordinates the Company's overall efforts in network security and its independent and controllable initiatives

公司制定了《信息化绩效考核实施办法》,对网络安全 实行年度水平考核和事件考核,督促所属企业落实相关 工作,并将考核结果与年度绩效挂钩。公司 2024 年未发 生责任性网络安全事件。

The Company has developed the "Implementation Measures for Information Performance Assessment", conducting both annual assessments and incident-specific evaluations for network security, encouraging subsidiaries to implement relevant tasks. The results of these assessments are directly tied to the annual performance evaluations. As of the end of 2024, the Company did not record any accountable network security incidents.

### 以质量保品质:质量管控

Guaranteeing quality: Quality control

吉电股份严格遵守《中华人民共和国安全生产法》《电 力供应与使用条例》等法律法规,在制度层面,公司制 定《技术监督管理规定》《生产调度管理规定》《安全 生产责任制管理规定》《质量管理工作规定》等各项规 章制度,围绕设备管理、运行调度管理、技术监督管理、 承包商管理等进行重点管控,实现设备全寿命周期管控, 杜绝三违行为,实现管理提升,保障发电、供热等稳定 Jilin Electric Power strictly complies with the relevant laws and regulations, such as the "Production Safety Law of the People's Republic of China" and the "Regulations on Electric Power Supply and Consumption". At the institutional level, the Company has developed a series of rules and regulations, such as the "Technical Supervision Management Regulations", "Production Scheduling Management Regulations", "Safety Production Responsibility System Management Regulations", and "Quality Management Work Regulations". These policies focus on key areas such as equipment management, operational scheduling, technical supervision, and contractor management. The goal is to achieve comprehensive life-cycle management of equipment, eliminate "three-violate" actions, enhance management practices, and ensure a stable supply of power and heating.

	质量管控治理体系 Quality management and governance system
能源保供工作领导 小组 Energy Supply Assurance Leading Group	· 贯彻落实党中央、国务院,吉林省委、省政府和公司实控人关于能源保供的决策部署和有关要求 Implements the decisions, arrangements and requirements for energy supply assurance set by the Central Committee of the Communist Party of China, the State Council, the Jilin Provincial Party Committee, the Provincial Government, and the Company's controlling entity · 做好公司保供工作的组织领导和统筹协调 Effectively organizes, guides and coordinates the Company's energy supply assurance efforts · 研究决策保供工作的重大问题 Addresses and resolves major issues related to energy supply assurance
领导小组下设办公室 在公司火电部 The Group has an office based in the Company's Thermal Power Department	·牵头贯彻落实公司能源保供领导小组的决策部署和有关要求 Oversees the implementation of the decisions, arrangements and relevant requirements set by the Energy Supply Assurance Leading Group ·做好公司各部门、所管各单位之间日常工作的组织和协调 Organizes and coordinates daily work across various departments and units within the Company ·做好和政府相关部门的沟通对接 Manages communication and liaison with relevant government departments
领导小组下设 6 个专 项工作组 The Group consists of six specialized working teams	· 负责落实公司能源保供工作领导小组各项决策部署 Implement all decisions and arrangements of the Energy Supply Assurance Leading Group · 组织开展保供具体工作 Organize and conduct specific tasks related to energy supply assurance

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走进吉电

吉电赋新能——科技创新

公司合理安排机组等级检修和技术改造工作,不断提高设备可靠性,确保应修必修、修必修好。通过加强对主要煤炭供应商的沟通,强化调运组织管理,保证长协兑现率等措施,确保燃料库存不低于能源保供天数要求,保障燃料安全稳定供应。精细化开展燃料混配掺烧工作,确保锅炉燃烧稳定。公司严格遵守调度指令,保证机组按需调用、随调随启,按令执行机组发电曲线,根据需求顶尖峰、压低谷,保障电网频率稳定。公司组织开展设备隐患排查治理专项活动,全年排查现场隐患 1800 余项,整改完成率不低于98%,切实提高机组可靠性。公司不断提升精细化管理,存量提质、增量做优,均衡发展。

公司高度重视能源保供工作,制定了《关于保供期间安全生产管控实施提级管理的细化方案》《强化火电安全设备管理,严控机组非停》《运行精细化管理提升活动》《迎峰度冬电煤保供方案》《煤炭保供应急预案》等方案应对保供风险,并在迎峰度夏、迎峰度冬等特殊时期制定专项工作方案和行动项,各所管单位也分别制定相应的工作方案,确保组织到位、措施具体。公司制定"零非停"奖励,对各所管单位领导班子进行"零非停"奖励,激励各单位强化安全生产管理。同时,加强机组等级检修管理,提升等级检修执行刚性,超前进行谋划,加强过程质量管控等;提升运行规范化管理水平,加强运行人员技能培训,认真开展隐患排查治理,提高应急响应能力。



The Company strategically plans maintenance and technical upgrades to enhance equipment reliability, ensuring that all necessary repairs are completed efficiently and effectively. By fostering strong communication with key coal suppliers, improving dispatch management, and maintaining high compliance with long-term contracts, the Company ensures fuel inventory levels meet energy supply requirements, thereby guaranteeing a safe and stable fuel supply. Refined blending and co-firing of fuels are undertaken to ensure stable boiler combustion. The Company strictly follows dispatch instructions, efficiently adjusting operations to meet demand, ensuring swift activation, and adhering to power generation schedules. This includes peak load management and off-peak adjustments to stabilize grid frequency. Specialized initiatives are conducted to identify and eliminate equipment hazards, with over 1,800 site issues reviewed annually and a correction rate of at least 98%, significantly enhancing unit reliability. The Company is committed to refining management practices by improving existing resources, optimizing new capacities, and ensuring balanced development.

The Company places a high priority on ensuring energy supply, having developed detailed plans such as the "Enhanced Management Plan for Safety Production Control During Supply Assurance", "Strengthen Safety Equipment Management in Thermal Power and Strictly Control Unplanned Outages", "Refined Operations Management Enhancement Activity", "Winter Peak Electricity and Coal Supply Assurance Plan", and "Emergency Plan for Coal Supply Assurance" to address supply risks. For critical periods like summer and winter peaks, special work plans and action items are developed, while each subsidiary formulates corresponding strategies to ensure thorough organization and targeted measures. The Company has established a "Zero Unplanned Downtime" reward system, providing incentives to the leading teams of each subsidiary to enhance their safety production management. Additionally, the Company is reinforcing the management of maintenance grading for units, enhancing the rigidity of executing grade maintenance, conducting proactive planning, and strengthening process quality control. It is also elevating the standardized management level of operations, enhancing the skill training for operational staff, diligently conducting hazard identification and remediation, and improving emergency response capabilities.

目标 Goals	完成值 Achieved
火电日均非停容量占比不超 1% The daily average capacity of unplanned downtimes in thermal power should not exceed 1%	火电日均非停容量占比 0.38% The daily average capacity of unplanned downtimes in thermal power is 0.38%
机组日均出力受阻不超 10% The daily average output limitation of units should not exceed 10%	机组日均出力受阻 5% The daily average output limitation of units is 5%

### 以安全筑防线: 生产安全

Building a safety net: Production safety

吉电股份践行"安全第一、预防为主、综合治理"安全 生产工作方针,制定并严格执行《安全生产工作规定》《安 全生产责任制管理规定》等制度。在治理体系上,公司 设立了由安全生产、消防管理、生态环保委员会;安全 生产办公室与所管单位形成的三层职业健康与安全管理 架构。在目标上公司坚持"零伤亡、零事故"奋斗目标 不动摇。 Jilin Electric Power embraces the policy of "Safety First, Prevention Foremost, and Comprehensive Management" in production safety. It has established and rigorously enforces systems such as the "Safety Production Regulations" and the "Safety Production Responsibility Management Guidelines". In terms of governance structure, the Company has established a three-tier occupational health and safety management structure consisting of the Safety Production, Fire Management, and Environmental Protection Committee, the Safety Production Office, and its subsidiaries. The Company is steadfast in its pursuit of the goal of "zero fatalities, zero accidents".

	职业健康与安全管理架构 Occupational health and safety management framework
安全生产、消防管理、 生态环保委员会 Safety Production, Fire Management, and Environmental Protection Committee	主任由党委书记、董事长担任 The director is the party secretary and chairman of the board 研究部署、指导协调公司安全质量环保工作 Plans and coordinates the Company's safety, quality, and environmental protection efforts 分析安全质量环保形势 Analyzes safety, quality and environmental protection situation 研究决策安全质量环保工作中的重大问题 Analyzes and resolves major issues related to safety, quality and environmental protection efforts
安全生产办公室 Safety Production Office	安全质量环保管理体系运行的监督管理 Supervises and manages the operation of safety, quality and environmental protection management systems 制定体系审核计划 Develops system audit plan
责任主体 Responsible subject	安全质量环保管理体系建设和运行的责任主体是所属企业 Subsidiaries shall responsible for the construction and operation of safety, quality and environmental protection management systems 开展安全质量环保工作任务分解 Decompose tasks related to safety, quality, and environmental protection 建立完善监测、报告、分析、持续改进工作机制,推动体系有效运行 Establish and improve the mechanisms of monitoring, reporting, analysis, and continuous improvement to promote effective system operation

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### 公司"八不发生"目标

"Eight No Occurrences" goals



不发生一般及以上人身伤亡生产安全事故

No occurrence of general or more severe personal injury or production safety accidents



不发生一般及以上设备事故

No occurrence of general or more severe equipment accidents



不发牛水库、灰库和尾矿库大坝溃坝事故

No occurrence of reservoir, ash storage, and tailings dam collapse accidents



不发生一般及以上铁路交通事故

No occurrence of general or more severe railway traffic accidents



不发生一般及以上电力安全事故

No occurrence of general or more severe power safety accidents



不发生一般及以上网络安全责任性事件

No occurrence of general or more severe network security liability incidents



不发生一般及以上责任性质量事故

No occurrence of general or more severe liability quality accidents



杜绝生态环保及文物保护违法违规行为,不发生突发环境事件

No violations of ecological, environmental, or cultural heritage protection laws, ensuring no occurrence of sudden environmental incidents

公司健全并定期更新专项应急预案,建立综合应急预案1 项, 专项应急预案 23 项, 组织企业开展应急预案评审, 常态化开展应急演练,配备必要的应急物资与装备,实 施预案改进,建立突发事件信息报告机制、突发事件舆 情监测和信息披露机制。2024年公司组织458次应急预 案演练,参与人数5,067人次。通过应急救援预案演练, 检验公司应急响应实战能力,进一步提高公司应急响应 的统一指挥能力、整体协调能力、现场救护能力、快速 反应能力和综合管理能力。

公司建立生产安全事故报告和调查处理制度,按照"四 不放过"原则进行原因分析、调查处理、警示教育、责 任追究。同时按公司安全生产考核相关规定及年度安全 生产工作责任书,对事故责任单位给予减分或处罚处理。 建立事故通报警示、挂牌督办、"说清楚"机制。事故 发生单位要召开事故现场警示教育现场会,复盘还原事 故经过、剖析事故原因,查找不足和短板。在工伤管理 层面,公司依据国家《工伤保险条例》和相关法规的规 定,结合实际情况制定《企业内部工伤管理操作指引》, 并按时为公司员工缴纳工伤保险费用。发生工伤事故后, 相关部门应当立即前往现场处置并进行事故调查,有必 要时及时送员工到合适医院进行医疗,为员工申请工伤 认定和待遇,并定期慰问。后续查明事故发生原因、伤 害情况,分清事故性质和责任,拟定改进措施并监督实施。 2024年,公司无重大安全事故发生。

安全生产责任险投入金额 111,154 元

Investment in production safety liability insurance: RMB 111,154

安全培训时长达 250,631 小时

Safety training hours: 250,631

安全生产培训参与人次达 4,700人

Number of participants in production safety training: 4,700

安全生产培训覆盖率 100%

Production safety training coverage rate:100%

安全生产标准化达标企业数量 15 个

Enterprises meeting safety production standardization standards: 15

安全生产投入金额 20,270 万元, 较 2023 年同比增长 15.68%

Investment in production safety: RMB 202.7 million, a 15.68% increase compared to 2023

The Company has developed and regularly updates its specialized emergency response plans, with one comprehensive emergency response plan and 23 specialized emergency plans. It organizes all subsidiaries to conduct regular emergency exercises, ensuring they have necessary emergency supplies and equipment, and continuously improves their procedures. It also has established mechanisms for reporting sudden incidents and for monitoring and disclosing information on public opinion during emergencies. In 2024, the Company conducted a total of 458 emergency exercises, involving 5,067 participants. These exercises were designed to test the Company's practical emergency response capabilities and further enhance its unified command. overall coordination, on-site rescue, rapid response, and comprehensive management abilities.

The Company has established a comprehensive system for reporting, investigating, and handling production safety incidents. We adhere to the "Four Principles", ensuring thorough cause analysis, investigation, handling, educational warnings, and accountability. Furthermore, in line with the Company's safety assessment regulations and the annual safety responsibility agreement, the units responsible for accidents shall face deductions in points or penalties. The Company has established mechanisms for accident notification alerts, supervisory oversight, and "explanation" procedures. When an accident occurs, the responsible unit shall conduct an on-site warning and educational meeting to review and reconstruct the incident, analyze its causes, and identify any deficiencies and weaknesses. In terms of occupational injury management, the Company has developed the "Internal Occupational Injury Management Guidelines" in accordance with the national "Work Injury Insurance Regulations" and relevant laws, taking into account the actual circumstance. Additionally, the Company pays work injury insurance premiums for employees on time. In the event of a work injury, relevant departments shall immediately go to the site to manage the situation and conduct an accident investigation. If necessary, the employee shall be promptly transported to an appropriate hospital for medical treatment. Meanwhile, the Company assists employees in applying for work injury recognition and benefits, and conducts regular support and visits. The subsequent process involves determining the cause of the accident and assessing the injuries, clarifying the nature and responsibility of the incident, developing improvement measures, and supervising their implementation. No significant safety accidents were recorded throughout the year 2024.



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关于本报告

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走进吉电

# 111111111

#### 安全生产管理与实践

Production safety management and practice

由公司设备管理部门每年底组织设备报废申报、鉴定、处置工作,及时淘汰不经济、不安全、不环保的设备

At the end of each year, the Company's equipment management departments organize the declaration, assessment, and disposal of obsolete equipment. This ensures the timely elimination of equipment that is uneconomical, unsafe, or environmentally unfriendly

- 严格执行设备计划检修制度,对设备状态日常监测
  - Strictly implement the equipment maintenance plans and conduct daily monitoring of equipment status

Establish an equipment maintenance system that aligns with production and business operations. This includes routine maintenance, periodic maintenance, and special maintenance, all performed according to procedures to prevent leaks or spillages, ensuring safe production operations

- 各基层单位每年定期委托第三方有资质机构对生产作业场所开展职业健康危害因素检测
  - Each grassroots unit annually commissions a qualified third-party organization to perform tests for occupational health hazards in production areas
- 在工作场所醒目位置设置警示标识和说明,设置职业卫生公告栏,公布有关职业病防治的规章制度、 操作规程、职业病危害事故应急救援措施和职业病危害因素检测结果等

Place risk warning signs and explanations in prominent locations in the workplace, and establish occupational health bulletin boards to share regulations on occupational disease prevention, standard operating procedures, emergency measures for workplace hazards, and test results of hazard factors

- 组织接触职业危害因素的员工进行职业健康体检,建立员工职业健康监护档案
- Offer occupational health examinations for employees exposed to occupational hazards and maintains comprehensive occupational health monitoring records for them
- 按照规定向员工发放劳动保护用品,完善其配置和报废标准,指导劳动者正确使用职业病防护设备和个人防护用品

Provide protection gear to employees as per regulations, refine distribution and disposal standards, and guide employees on the proper use of protective equipment and personal safety gear

● 提高防护意识,举办健康知识讲座,组织职业健康防护综合培训,持续提升员工健康保健意识 Strengthen protective awareness, host health education seminars, and organize comprehensive occupational health training, continually enhancing employees' health consciousness

### 案例 Case

### 发电机组智能巡检机器人系统应用 Application of intelligent inspection robot system for generator sets

四平第一热电公司采用机器人智能巡检,有效提升了巡检效率和安全。该系统包括 2 套巡检机器人、73 个无线温振传感器、高清数字监控摄像头 6 台。实现了转机振动、声音运行状态综合分析,自动生成巡检卡。提高现场安全管理水平。

Siping First Thermal Power Company has successfully implemented an intelligent inspection robot system, significantly enhancing both inspection efficiency and safety. The system includes 2 inspection robots, 73 wireless temperature and vibration sensors, and 6 high-definition digital surveillance cameras. It enables comprehensive analysis of vibration and sound operational states, with automatic generation of inspection reports. It can significantly enhance on-site safety management.



图: 局部超温告警告 Picture: Local over-temperature alarm





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### 以智数促升级:数字化转型

Upgrading through digital intelligence: Digital transformation

吉电股份构建数字化六大体系即"一个基础、一个核心、两条主线、两个保障"。2024年持续开展了智慧场站建设、智慧火电燃料一体化平台建设项目等,完成工业互联网+安全生产平台的推广、数字档案馆、财务共享系统功能优化等项目,以实际举措积极推进业务数字化、治理智能化、数据要素化。截至2024年底,公司关键业务环节数字化覆盖率超90%,数字化转型成效显著。

Jilin Electric Power has developed a digital framework consisting of "one foundation, one core, two main lines, and two guarantees". In 2024, the Company continued its efforts with projects like the intelligent power station construction and the integrated intelligent thermal power fuel platform. It successfully deployed of the industrial Internet and safety production platform, digital archives, and optimized the financial shared services system, actively advancing business digitalization, intelligent governance, and data-driven initiatives. By the end of 2024, the digitalization coverage for its key business processes exceeded 90%, demonstrating significant success in digital transformation.

走进吉电

### 案例 Case

### 辅助决策平台系统建设

### Development of an auxiliary decision-making platform system

为适应不断变化的现货市场环境、应对激烈的市场竞争,依据现货辅助决策系统建设的整体规划,吉电股份 开展了电力现货辅助决策系统的建设部署,系统具备了事前数据的获取及分析、电价预测,事中申报策略的 推荐,事后交易复盘分析等功能。通过先进的电网模型和大数据分析技术,对电网运行状态进行精准模拟,能够实时收集并分析全网的潮流分布、节点电压等信息,为吉电股份所管发电企业计算出每个时段的最优出力和报价,帮助其在市场竞争中获取最大利益。平台利用复杂的价格预测模型,考虑了天气、经济增长等多种因素对电力价格的影响,提前预测价格波动区间,吉电股份所管售电公司可以根据这些预测,为用户制定合理的购电计划,降低因价格波动带来的风险。

To adapt to the dynamic spot market environment and address fierce market competition, Jilin Electric Power has undertaken the development and deployment of a power spot market auxiliary decision-making system based on the overall planning of the spot auxiliary decision system construction. The system features the ability to gather and analyze pre-event data, forecast electricity prices, recommend bidding strategies during events, and conduct post-event trade reviews. Leveraging advanced power grid models and big data analysis techniques, the system accurately simulates the power grid's operational status. It can collect and real-time analyze data such as power flow distribution and node voltages across the grid, enabling the calculation of optimal output and bidding strategies for each time period for power generation companies managed by Jilin Electric Power. This enhances their competitive advantage in the market. Utilizing sophisticated price prediction models that take into account factors like weather and economic growth, the platform forecasts price fluctuation ranges in advance. Based on these predictions, the electricity retail companies managed by Jilin Electric Power can create reasonable power purchasing plans for users, thereby reducing risks associated with price volatility.

专题: 吉电赋新能——科技创新 吉电筑善治 FSG 治理 吉电护青绿: 环境责任 吉电助发展: 稳定供电 吉电暖民生: 社会响应 吉电稳善政: /099

#### 案例 Case

### 智慧化场站建设

### Construction of intelligent stations

吉电股份通过无人机、巡检机器人、定点摄像头、智能安防系统、智能预警等系统,实现了站内设备、集电 线路、光伏区域等巡检检查项目的全覆盖,着力解决工作中高频的日常巡视、耗时长的集电线路检查等业务。 进行无人替代既减轻了现场人员劳动强度和时间成本,又有效避免作业违章和非法闯入,提升本质安全水平。

Jilin Electric Power has achieved full coverage of inspection tasks involving station equipment, collector lines, and photovoltaic areas through the deployment of drones, inspection robots, fixed cameras, intelligent security systems, and early warning systems. This effectively addresses issues related to frequent daily inspections and time-consuming checks of collector lines. The transition to unmanned operations reduces both the labor intensity and time commitment required from on-site personnel, while also effectively preventing operational violations and unauthorized access, thereby enhancing safety standards.

2024年公司已完成 40 座智慧化场站建设,通过"远程集控+区域维检+少人(无人值守)"管控模式优化,实现 3 座光伏电站、1 座风电无人值班,省内 10 座智慧化场站按定员合计减少 35 人,大大降低人力成本,提高了劳产率。

As of 2024, the Company has completed the construction of 40 intelligent stations. The optimized management model of "remote centralized control + regional maintenance + minimally-manned (unattended)" operations has enabled unmanned functionalities at 3 photovoltaic power stations and 1 wind power station. Additionally, the staffing across 10 intelligent stations within the province has been reduced by 35 positions, according to the Company staffing standards, significantly lowering labor costs and enhancing productivity.



图: 巡检机器人在场内巡检 Picture: Inspection robots in the station

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### 以公益做表率:回馈社会

Leading with public welfare: Social contribution

吉电股份遵循《对外捐赠管理办法》,按照公司《2024年度对外捐赠计划》,充分考虑帮扶地区实际需求,将帮扶工作与促进项目开发相结合,对延边州珲春市密江村、依力村、汪清县,白城地区,松原市扶余市、长岭县,吉林市蛟河市等地区实施捐赠,帮助地区落地特色产业,提升农村基础设施,以吉电力量助力吉林省乡村振兴发展。

公司深入贯彻学习习近平总书记关于"三农"工作的重要论述,认真落实党中央、吉林省委、省政府关于巩固拓展脱贫攻坚成果同乡村振兴有效衔接的决策部署,积极投身农村能源革命和美丽乡村建设,通过协助地方产业绿色发展、积极助力兴边富民行动、大力开展帮扶捐赠等方式,累计捐赠帮扶资金235万元,创造更多的经济效益和社会价值。

根据吉林省委安排,公司 2024 年开始对口帮扶延边州珲春市马川子乡依力村。公司编制《2024 年度乡村振兴暨边境村包保帮扶工作计划》,确定公司对依力村年度帮扶工作安排,通过系列帮扶措施,提升依力村造血能力,实现可持续发展。

Adhering to the "External Donation Management Measures" and its "2024 External Donation Plan", Jilin Electric Power is committed to addressing the actual needs of assisted regions. By integrating support initiatives with project development, the Company extends donations to areas including Mijiang and Yili Villages in Hunchun City, Wangqing County, Baicheng, Fuyu City and Changling County in Songyuan, and Jiaohe City in Jilin. These efforts aim to foster local specialty industries, improve rural infrastructure, and leverage the strengths of Jilin Electric Power to advance rural revitalization and development in Jilin Province.

The Company thoroughly implements and studies General Secretary Xi Jinping's important discussions on "agriculture, rural areas, and rural residents". It diligently follows the decisions and arrangements of the Central Committee of the Communist Party of China and the Jilin Provincial Committee and Government on effectively integrating poverty alleviation outcomes with rural revitalization. Actively engaging in the rural energy revolution and the construction of beautiful villages, the Company fosters local industrial green development, supports border prosperity initiatives, and conducts substantial donation and assistance activities. To date, it has donated a total of RMB 2.35 million in supporting funds, generating significant economic benefits and social value

Aligned with the Jilin Provincial Committee's arrangements, the Company began to provide targeted assistance to Yili Village in Machuangzi Township, Hunchun City, Yanbian, in 2024. The Company has formulated the "2024 Annual Rural Revitalization and Border Village Support Plan" to outline its annual support initiatives for Yili Village. Through a series of supporting measures, it aims to enhance the village's self-sufficiency and achieve sustainable development.

● 因地制宜培育适应市场需求、具有发展潜力的"红松嫁接"特色产业,确保村集体经济收入稳定增长。

The Company is cultivating a unique industry of "Red Pine Grafting" tailored to market demands and with growth potential, ensuring steady growth in the village's collective economic income.

● 助力兴建村民文化广场,加强村民文娱活动,提升生活品质,丰富群众业余生活。

It supports the development of a community cultural plaza to enhance cultural and recreational activities, improve villagers' quality of life, and enrich their leisure time.

● 发挥清洁能源产业优势,实施村部便民服务站"焕然一新"改造工程,通过改造空气能热泵清洁供暖,让村民切实体 会到温暖高效的便民服务。

By leveraging the clean energy industry, the Company plans to undertake a "revamp" of the village service center. This includes renovating the air-source heat pump system to provide clean heating, allowing villagers to experience efficient and comfortable services firsthand

公司主要负责人及业务分管领导多次前往依力村进行实地调研,与村委会进行交流,慰问脱贫户,指导帮扶工作有力 推进。

The Company' key leaders and heads of relevant divisions have made several visits to Yili Village for field researches, engaged with the village committee, offered support to families who have overcome poverty, and effectively guided the progress of support initiatives.

### 案例 Case

### 乡村振兴光伏项目帮助村民增收

# Helping villagers increase income through rural revitalization solar power project

吉电股份在吉林蛟河投产 5.12 万千瓦乡村振兴光伏项目,位于蛟河奶子山街采矿沉陷区,将闲置 10 余年土地再次盘活。项目的利润由蛟河市财政局负责给全蛟河 256 个村集体分红,每个村可分得 2 万元,用于乡村振兴建设。

Jilin Electric Power has launched a 51.2 kW rural revitalization solar power project in Jiaohe, Jilin Province, specifically located in the mining subsidence area of Naizishan Street. This initiative revitalizes land that lay idle for over a decade. The profits from the project are distributed by the Jiaohe Municipal Finance Bureau as dividends to 256 village collectives in Jiaohe, with each village receiving RMB 20,000 for rural revitalization and construction.



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### 案例Case

### 产业先行 赋能乡村振兴

### Empowering rural revitalization through industry-led growth

吉电股份通过产业发展助力乡村振兴,采用异地建设的方式为吉林省扶余市建设 41 兆瓦乡村振兴风电项目;另外,每年向汪清县、安图县和图们县支付乡村振兴款 1,230 万元,支付期限 20 年,以实际行动促进村企融合发展,为"稳边固边"贡献吉电力量。

Jilin Electric Power supports rural revitalization through industrial development by constructing a 41 kW wind power project for Fuyu City, Jilin Province, adopting an off-site construction approach. Additionally, the Company commits an annual payment of RMB 12.3 million to Wangqing County, Antu County, and Tumen County as rural revitalization funds for a period of 20 years. This initiative actively promotes the integration of village and enterprise development and contributes to the "stability and security of border regions".





图:公司领导对包保帮扶延边州珲春市依力村开展捐赠慰问

Picture: Company leaders conducting donation and support activities in Yili Village, Hunchun City, Yanbian



图: 2024年5月,白城发电公司团委开展"映山红"活动, 与青山镇小学的学生们共同体验阅读的乐趣 Picture: In May 2024, Baicheng Power Company's Youth Committee organized the "Ying Shan Hong" event, allowing students from Qingshan Town Primary School to enjoy the joy of reading together



图: 2024 年 10 月,吉电股份所属华中区域公司团委在兴国县 古龙岗镇蜈溪小学开展捐资助学志愿服务活动 Picture: In October 2024, the Youth Committee of the Central China Regional Company of Jilin Electric Power held a volunteer service event to support education at Wuxi Primary School in Gulonggang Town, Xingguo County

### 以纳税履责任: 税务管理

Fulfilling responsibility through tax compliance: Tax management

吉电股份制定《税务管理办法》等相关制度,坚持依法 合规纳税原则,认真履行纳税义务,严格遵守业务所在 国家或地区的相关税收政策规定、公司管理制度和操作 规范,以真实、完整的涉税资料作为支持依据,依法、 准确、及时缴纳各项税款,按规定进行税收信息披露, 确保符合相关税务监管要求。

2024年,公司合理控制税务风险,按时缴纳各项税费,合计缴纳增值税 70,051 万元;企业所得税 35,715 万元,公司纳税信用等级为 B 级。

Jilin Electric Power has formulated relevant systems such as the "Tax Management Measures", upholding the principles of legal and compliant tax practices. The Company diligently fulfills its tax obligations, strictly adhering to the tax policies, regulations, company management systems, and operational standards of each country or region in which it operates. By relying on accurate and completed tax-related documentation, the Company ensures the lawful, precise, and timely payment of taxes, and conducts tax information disclosure as required to meet relevant regulatory standards.

In 2024, the Company reasonably controlled tax risks and ensured timely payment of all taxes and fees, with a total of RMB 700.51 million in VAT and RMB 357.15 million in corporate income tax. The Company's tax credit rating is B.





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### 以党建铭初心: 党建引领

Sticking to our original aspiration through Party building: Party leadership

吉电股份党委坚持以习近平新时代中国特色社会主义思 想为指导,深入贯彻落实新时代党的建设总要求,聚焦 国家电投党组"一流党建"部署,充分发挥"把方向、 管大局、保落实"作用,强引领、固根本、提能力、创 价值,为公司实现高质量发展提供坚实保障。

突出旗帜领航,"两个维护"更加坚决。公司坚持政治 建设首位,以"四个以学"巩固拓展主题教育成果,优 化"第一议题"学习制度,健全"每周一学、班子领学、 专题研讨、督办落实"全流程闭环管理机制,全年开展 党委会学习36次、党委理论学习中心组学习8次,示范 推动习近平总书记重要指示批示精神和党中央决策部署 在吉电股份落地见效。丰富党纪学习教育形式,组织党 员参加省廉政教育基地、看守所参观、腐败案件庭审旁 听等警示教育活动 37 次,建立"会前学纪""以案释纪" 长效机制,推动党纪学习教育常态长效。成立巡视整改 工作领导小组办公室和工作专班,提早谋划建立研究会 商、落实整改、监督问责、评估销号等整改机制,打好 整改工作"主动仗"。

突出履责担当,责任落实更加具体。坚持"两个一以贯 之",推动党的领导深度融入公司治理,分类开展党建 入章程规范性整改,系统梳理优化"三会"权责清单, 按照"六个坚持"原则,规范履行"三重一大"事项决 策程序,2024年,公司党委会决策事项242项,前置研 究事项 56 项, 切实做到依法合规、科学决策。以清单化 构建"1+1+4"全面从严治党责任体系,制定《关于加强 境内参股企业党建工作"管起来"的若干措施(试行)》, 探索性将党建工作"22个是否"纳入专职董事履职内容, 推动党建管理横向到边、纵向到底。坚持"书记抓、抓 书记",组织 26 家所管单位党组织书记签订党建及党风 廉政建设和反腐败工作目标责任书,分层分类举办所管 单位党组织书记、基层党支部书记、党务工作人员培训班, 组织到国家电投内蒙古公司观摩学习。修订《党建工作 责任制考核评价办法》,增设党委书记履行"第一责任 人"责任、党委班子成员履行"一岗双责"情况考核指标, 通过强排名进一步发挥考核"指挥棒"作用,促进管党 The Party Committee of Jilin Electric Power adheres to the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era and thoroughly implements the new era's general requirements for Party building. Focusing on the "First-Class Party Building" deployment of the Party Leadership Group of SPIC, it plays a critical role in "setting direction, overseeing the overall situation, and ensuring implementation". The Committee is committed to strengthening leadership, consolidating foundations, enhancing capabilities, and creating value, thereby providing solid support for the Company's high-quality development.

Emphasizing flagship leadership and strengthening resolve for the "Two Upholds". The Company places political development as its top priority, consolidating and enhancing thematic education achievements through the "Four Learning" Approaches". It refines the learning system of the "First Topic" and optimizes the comprehensive closed-loop management mechanism for "weekly learning, leadership-led study, special seminars, and implementation oversight". Throughout the year, 36 sessions of the Party Committee meetings and 8 sessions of the Party Theory Study Central Group meetings were conducted, driving the implementation and effectiveness of General Secretary Xi Jinping's important instructions and central government decisions at Jilin Electric Power. The Company diversifies the forms of Party discipline education by organizing 37 warning education activities, including visits to provincial anti-corruption education bases, detention center tours, and attendance at corruption trial hearings. It has established long-term mechanisms like "Pre-Meeting Discipline Study" and "Case-based Discipline Interpretation" to ensure ongoing and effective Party discipline education. An office and task force for inspection rectification were set up to proactively plan and create mechanisms for research discussions, remedial actions, supervision and accountability, and rectification assessment and closure. This is to proactively manage the rectification efforts.

Highlighting responsibility and accountability with more concrete implementation. Adhering to the "Two Consistent Principles", we continues our efforts to integrate the Party's leadership deeply into corporate governance. We are conducting classified rectifications to standardize the inclusion of Party building in Articles of Association and systematically reviewing and optimizing the authority and responsibility lists of the "Three Meetings". Following the "six adherence" principles, we standardize the decision-making procedures for "Three Majors and One Large" issues. In 2024, the Party Committee made decisions on 242 items and conducted preliminary research on 56 items, ensuring legal compliance and scientific decision-making. We are building a

#### 治党责任落实。

突出强基筑垒,作用发挥更加凸显。落实"四同步、四 对接",规范指导新建单位开展党组织设立、选举、升 格等工作。全面实施党支部"达标创优",首轮评定标 准化党支部 48 个。深入开展党建基层基础问题消缺,突 出抓好党组织经费计提、党费收缴、发展党员、空白班组、 党员管理等5个专项问题整改。完成直属党委更名,健 全9项直属党委工作制度,开展"三亮三比三评"和党 建联建活动,促进本部养成"精细严实"作风。抓实基 层党组织和党员作用发挥,深化"党建+""党员身边无 违章"活动,广泛开展"一分钱·党员在行动、支部在攻关"

突出领雁聚才,队伍建设更加有力。全面优化本部机构 设置,调整7家所管单位管理模式,编制绿色氢基能源 平台架构搭建方案坚持党管干部人才原则,调整本部及 所管单位主要负责人,加大干部交流力度,选配9名同 志组建专职董事队伍。加强优秀青年人才培养历练,选 拔 10 名优秀年轻干部交叉挂职。

突出清风护航, 自我革命更加深入。强化政治监督, 完 成两轮对5家单位的政治巡察,加强巡察整改和成果运 用,开展巡视巡察共性问题自查自纠,推动以巡促改、 以巡促建、以巡促治。强化监督执纪,加强对所管单位"一 把手"和领导班子监督,开展廉政谈话。用好"大监督" 平台,统筹协调全年21项监督任务。加大执纪问责力度, 精准运用"四种形态"。狠抓作风建设,持续推进整治 形式主义为基层减负,开展违反中央八项规定精神问题 专项治理,结合常态化"微权力"靶向监督,对所管单 位收寄快递、值班值守、节前廉洁提醒教育情况开展突 击检查,集中整治群众身边不正之风。



"1+1+4" comprehensive responsibility system for strict Party governance using a checklist approach. We have developed the "Several Measures for Strengthening Party Building Work in Domestic Associate Enterprises (Trial)". We are exploring the integration of the "22 criteria" of Party building work into the roles of dedicated directors, ensuring comprehensive Party management both horizontally and vertically. Adhering to the principle of "the secretary takes charge and is accountable," we organized secretaries of 26 affiliated Party organizations to sign responsibility agreements focused on Party building. Party conduct, clean governance, and anti-corruption goals. We conducted categorized training programs for secretaries of affiliated Party organizations, grassroots Party branch secretaries, and Party affairs staff, and organized a study visit to the SPIC in Inner Mongolia. We revised the "Evaluation Measures for the Party Building Responsibility System", introducing assessment indicators for the Party Committee secretary's role as the "primary responsible person", as well as for the fulfillment of "dual responsibilities" by Party Committee members. By enhancing the ranking system, we further utilized assessments as a "baton" to promote the effective implementation of Party governance responsibilities.

Highlighting the reinforcement of foundational structures to make roles more evident. We implemented the "four synchronizations and four alignments", providing standardized guidance for newly established units on setting up, electing, and upgrading Party organizations. We fully carried out the "Standardization and Excellence Initiative" for Party branches, with the first round recognizing 48 as standardized Party branches. Additionally, We intensified efforts to address foundational issues in grassroots Party building, concentrating on five key areas: allocation of Party organization funds, collection of Party dues, development of Party members, resolving gaps in work groups, and managing Party members. We finalized the renaming of the directly affiliated Party Committee, established nine operating procedures, and launched the "Three Highlights, Three Comparisons, Three Evaluations" and joint Party building activities to foster a meticulous, rigorous, and practical working culture at the headquarter. We have mobilized grassroots Party organizations and members more effectively, enhanced initiatives such as "Party Building+" and "No Violations Around Party Members," and widely promoted activities like "One Cent: Party Members in Action and Branches Tackling Challenges".

Strengthening the leadership in talent recruitment to enhance team building. We optimized the structure of the headquarter, adjusted the management models of seven subsidiaries, and developed a framework for a green hydrogen-based energy platform. In line with the principle of Party oversight in cadre and talent management, we revised the key leadership positions at the headquarter and subsidiaries, and enhanced the exchange of cadres, selecting nine individuals to form a dedicated board team. Additionally, we strengthened the cultivation and training of outstanding young talents by selecting 10 excellent young cadres for cross-posting positions.

Emphasizing the importance of providing clear guidance and deepening self-reform. We strengthened political oversight

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by completing two rounds of political inspections across five units, improving the rectification and application of inspection outcomes. We also conducted self-assessment and correction of common inspection issues to promote improvements, development, and governance through inspections. We enhanced supervision and enforcement of discipline, with a focus on monitoring the leaders and leadership teams of subsidiaries, and conducted integrity dialogues. Utilizing the "comprehensive supervision" platform, we planned and coordinated a total of 21 supervisory tasks throughout the year. We intensified disciplinary accountability, precisely applying the "four forms" of discipline. Furthermore, we prioritize work style improvements to consistently reduce the grassroots burden of formalism, conduct special measures to address violations of the Central Eight Regulations, and implement ongoing targeted supervision of "micro-power" by performing spot checks on the handling of packages, duty shifts, and pre-holiday integrity education within Subsidiaries, focusing on rectifying improper practices that affect the public.

### 案例 Cas

### 以"五个课堂"推动党纪学习教育走深走实 Deepening Party discipline learning and education through "Five Lessons"

吉电股份以学习研讨、专家解读、现场警示、浸润宣贯、实践锻炼"五堂课"抓实党纪学习教育,系统各级党组织共举办读书班 39 期、"三会一课"和主题党日 151 次、专家解读 44 次,党组织书记讲纪律党课 115 次,受教育 2,698 人次。组织参加身边腐败案件庭审旁听、参观省廉政教育基地、长春市看守所等开展现场警示教育 37 次,增强警示震慑。建立"会前学纪""以案释纪"长效机制,每次党委会前均开展纪律学习,班子成员轮流领学,纪委每月编印《以案释纪说法》,确保党纪学习教育常态长效。

Jilin Electric Power has strengthened Party discipline learning and education by implementing a "Five Lessons" strategy, which includes study discussions, expert interpretations, onsite warnings, immersive promotions, and practical exercises. Party organizations at different levels have hosted 39 reading



图: 吉电股份党纪学习教育警示教育大会 Picture: Jilin Electric Power holding the Party Discipline Learning and Education Warning Conference

sessions, conducted 151 "Three Meetings and One Lesson" and thematic Party day events, organized 44 expert interpretation sessions, and delivered 115 lectures on discipline by Party organization secretaries, involving a total of 2,698 participants. Moreover, the Company has organized a total of 37 on-site warning education activities, including attending trials of local corruption cases and visiting the provincial integrity education base and the Changchun City Detention Center, to enhance the warning and deterrent effects. We also have established long-term mechanisms such as "Pre-Meeting Discipline Study" and "Case-based Discipline Interpretation". Before each Party Committee meeting, discipline learning is conducted with leadership team members taking turns leading the study. The Discipline Inspection Commission publishes a monthly newsletter titled "Case-based Discipline Interpretation and Legal Explanation" to ensure that Party discipline learning and education remain continuous and effective.



### 推动基层党建品牌创优

### **Enhancing grassroots Party building brand innovation**

吉电股份所属东北区域公司持续深化"绿电红引擎"党建品牌建设,完善"12355"品牌架构,以"五心"铸红心、以"五力"聚合力,持续推进"党建+"创优工程,有力融促中心大局。该公司建成 9 座智慧化场站,带补贴风电项目对标全省五大发电集团排名第一,推动蛟河地热+新能源项目落地,"一分钱行动"增利 3,675万元,获得吉电股份首个党建工作专利,党建品牌论文荣获 2024 年国家电投、全国电力企业管理创新论文二等奖。

Jilin Electric Power's Northeast Regional Company continuous its efforts to the construction of "Green Power and Red Spirit - Led" Party Building brand by refining the "12355" brand framework, forging red hearts with "Loyalty, Filial Piety, Compassion, Sincerity and Confidence", and uniting strength with the "Five Forces". This ongoing effort promotes excellence in the "Party Building +" initiative, effectively supporting core goals of the company. The company has established nine intelligent stations and ranked first in the province among the five major power generation groups for subsidized wind power projects. It successfully launched the Jiaohe geothermal + new energy project and increased profits by RMB 36.75 million through the "One Cent" initiative. Additionally, the company acquired Jilin Electric Power's first Party Building work patent, and its paper on the Party Building brand received the second prize in the 2024 SPIC and National Electric Power Enterprise Management Innovation Paper.



图: "绿电红引擎" 党建品牌

Picture: "Green Power and Red Spirit-Led" Party building brand



图: 党建工作专利 Picture: Party Building work patent

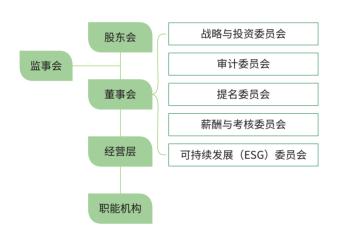
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### 以治理稳前行: 治理架构

Advancing with stable governance: Governance structure

### 董监高建设情况

吉电股份遵循上市公司的规范运作和监管要求,持续完善董监高组织结构,2024年新设可持续发展委员会,致力于提高决策管理的科学化水平和内部控制效能。



# Construction of Board of Directors, Board of Supervisors and senior management

Jilin Electric Power adheres to the regulatory requirements of publicly listed companies and continuously refines structures of Board of Directors, Board of Supervisors, and senior management. In 2024, the Company established a Sustainability Committee to enhance the scientific approach to decision-making management and improve internal control effectiveness.



从董事会成员构成来看,公司董事会由9名董事组成, 其中男性董事9名;外部董事占比67%,独立董事占比 33%。

2024年召开董事会 15次, 审议议案 90项。

董事经由股东会选举产生,每届董事会任期三年。董事任期届满可以连选连任,独立董事连任时间不得超过6年。公司充分考虑董事会成员的行业经验、背景、性别等因素,以确保董事会构成最优化、平等化及多元化,公司董事专业经验覆盖安全、生产、发展、财务、法律、电力、人力资源、化工等领域。公司独立董事候选人由公司董事会、监事会、单独或者合并持有公司有表决权的股份总数1%以上的股东提名,除独立董事之外的其他董事候选人由董事会、监事会、监事会、单独或者合并持有公司有表决权的股份总数1%以上的股东提名,董事候选人名单

In terms of the composition, the Board of Directors consists of nine male members, with external directors making up 67% and independent directors 33%.

In 2024, the Board held 15 meetings to review and discuss 90 proposals.

Directors are elected by the shareholders and serve three-year terms. They can be re-elected upon term completion, but independent directors may serve no more than six consecutive years. The Company carefully evaluates factors such as industry experience, background, and gender to ensure the board is optimally composed, equitable, and diverse. The directors' expertise covers a wide range of fields, including safety, production, development, finance, law, electricity, human resources, and chemicals. Independent directors are nominated by the Board of Directors, the Board of Supervisors, or shareholders who individually or collectively hold over 1% of the Company's voting shares. Candidates for directors, excluding independent directors, are similarly nominated by the Board of Directors, the Board of Supervisors, or shareholders who individually or collectively hold over 1% of

以提案的方式提请股东会决议。

董事会下设5个专门委员会——战略与投资委员会、审 计委员会、提名委员会、薪酬与考核委员会、可持续发 展(ESG)委员会。各委员会就专业性事项进行研究,为 董事会决策提供专业建议,其成员均由董事担任。 the Company's voting shares. The list of director candidates is submitted as a proposal to the shareholders meeting for resolution.

The Board of Directors has five specialized committees: the Strategy and Investment Committee, the Audit Committee, the Nomination Committee, the Compensation and Evaluation Committee, and the Sustainability (ESG) Committee. These committees conduct research on specialized matters to provide the board with expert advice, and all members are directors.

#### 战略与投资委员会 Strategy and Investment Committee

·对公司长期发展战略和重大投资决策进行研究并向董事会提出建议。

Conduct research on the Company's long-term development strategy and major investment decisions, and provide recommendations to the Board of Directors.

#### 审计委员会 Audit Committee

提议聘请及更换外部审计机构; 监督公司内部审计制度及其实施; 负责内部和外部审计机构之间的 沟通;审核公司的财务信息及其 披露;审查公司的内控制度等。

Recommend the hiring and replacement of external audit firms; oversee the Company's internal audit system and its implementation; facilitate communication between internal and external auditors; review the Company's financial information and its disclosure; and evaluate the Company's internal control systems.

#### 薪酬与考核委员会 Compensation and Evaluation Committee

·研究董事和高级管理人员的考核标准,进行考核并提出建议。

Develop evaluation criteria for directors and senior management, conduct evaluations, and make recommendations.

·审议董事、监事、高级管理人员薪酬计划。

Review remuneration plans for directors, supervisors, and senior management.

·各项报酬的计提发放全部依据国家、属地 以及上级公司有关文件规定,结合公司相 关管理办法确定。

All remuneration calculations and distributions adhere to national, local, and parent company regulations, and are aligned with the Company's relevant management policies.

#### 提名委员会 Nomination Committee

研究董事和高级管理人员的选择标准和程序,对董事会的规模和构成向董事会提出 建议等。

Develop the selection criteria and procedures for directors and senior management, and provide recommendations to the Board of Directors regarding its size and composition.

#### 可持续发展(ESG)委员会 Sustainability (ESG) Committee

对公司可持续发展相关的重大决策向董事会提出建议;监督公司可持续发展策略、规划的实施和进展;监督公司应对气候变化、保障健康安全和履行社会责任等关键议题的承诺和表现等。

Advise the Board of Directors on major decisions related to the Company's sustainable development; oversee the implementation and progress of sustainability strategies and plans; monitor the Company's commitments and performance in key areas such as climate change response, health and safety, and social responsibility.

吉林电力股份有限公司 2024 年度环境、社会及公司治理(ESG)报告 JILIN ELECTRIC POWER CO., LTD. 2024 Environmental, Social and Governance Report

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监事会对公司董事、高级管理人员履行职责的合法性进 行检查和监督,维护公司及股东的合法权益。公司监事 每届任期3年,可连选连任。非职工代表担任的监事由 股东会选举和罢免; 职工代表担任的监事由公司职工通 过职工代表大会、职工大会或其他形式民主选举和罢免。 监事会由5名监事组成,其中男性监事4名,女性监事1 名,外部监事占比20%,职工监事占比80%。

公司高级管理层 9 人,其中男性 9 人;30 岁-50 岁(含) 5人,50岁以上4人。

### 董监高薪酬管理情况

公司董监高薪酬管理由董事会薪酬与考核委员会负责, 经董事会讨论后通过,由董事会批准后实施。公司董事、 监事、高级管理人员报酬均依据同行业报酬水平,结合 本公司薪酬制度和年度经营业绩等综合因素确定。公司 每年在年度报告中披露现任及报告期内离任董事、监事 和高级管理人员持股变动及报酬情况,保障董监高的薪 酬合理性及诱明度。

The Board of Supervisors ensures the legality of the actions taken by the Company's directors and senior management, protecting the rights and interests of the Company and its shareholders. Supervisors serve a 3-year term and may be re-elected continuously. Non-employee representatives on the Board of Supervisors are elected and dismissed by the shareholders meeting, while employee representatives are elected and dismissed by the workforce through workers congresses, general employee meetings, or other democratic processes. The Board of Supervisors is comprised of 5 members, including 4 male supervisors and 1 female supervisor. External supervisors constitute 20% of the Board, while employee supervisors make up 80%.

The Company has 9 male senior managers, among whom 5 are between 30 and 50 years old (include), and 4 are over 50 years old.

### Remuneration management of directors, supervisors and senior management

The Compensation and Evaluation Committee under the Board of Directors is responsible for the remuneration management of directors, supervisors and senior management. It is discussed and approved by the Board of Directors before implementation. Remuneration for the Company's directors, supervisors, and senior management is determined based on industry standards, while also considering the Company's internal remuneration policies and annual business performance. The Company discloses in its annual report the changes in stock ownership and remuneration of current and departing directors, supervisors, and senior management during the reporting period, ensuring the reasonableness and transparency of their remuneration.



### 以合规控风险:风控管理

Controlling risks with compliance: Risk management

### 内部控制

吉电股份严格遵守《公司法》《证券法》等相关法律法规, 在制度文件上,公司制定了《内部控制管理规定》《资 金内部控制监督管理办法》等内部管理制度,公司已经 形成分工协调、各司其职、紧密衔接的内部控制治理架构。

### Internal control

Jilin Electric Power strictly complies with relevant laws and regulations, including the "Company Law" and the "Securities Law". The company has established internal management systems such as the "Internal Control Management Regulations" and the "Measures for Funds Internal Control and Supervision". The Company has a formed well-structured internal control governance framework characterized by a clear division of responsibilities, coordinated roles, and seamless integration.

内部控制治理架构 Internal control governance framework	
董事会 Board of Directors	·负责公司内部控制的建立健全和有效实施 Develops, refines and effectively implements the Company's internal controls ·是公司内控体系的最高决策机构 The highest decision-making authority for the internal control system
董事会下设的审计委员会 Audit Committee under the Board of Directors	·负责审查公司内部控制的有效实施和评价情况 Reviews and evaluates the effective implementation of the Company's internal controls ·对内部控制工作进行指导 Provides guidance for internal control activities
法律与风险管理部 Legal and Risk Management Department	· 负责牵头组织、协调和监督内部控制管理工作,为其他部门提供工作支持 Leads the organization, coordination, and supervision of internal control management and offers support to other departments
各业务部门 Business departments	·负责本职能范围内的内控体系建设和执行 Develop and execute the internal control system within the range of its function
审计部 Audit Department	·独立行使内部控制管理的检查评价职能 Independently performs the functions of inspecting and evaluating internal control management

吉电筑善治:

FSG 治理

公司按照财政部、交易所要求建立了一套相对完善的内 部控制体系, 随着业务发展, 公司采取日常监督、专项 评价、年度评价和内控审计多种形式"以评促建",推 动内控体系向纵深建设。2024年,公司已纳入审计(评价) 范围的业务与事项均已建立了内部控制,并得到有效执 行,未发现内部控制重大和重要缺陷。

The Company has established a comprehensive internal control system in line with the requirements of the Ministry of Finance and the stock exchange. As the business grows, the Company employs various methods such as routine supervision, special assessments, annual evaluations, and internal control audits to promote the in-depth construction of the internal control system. In 2024, all businesses and matters within the audit (evaluation) scope have successfully established and effectively implemented internal controls, with no major or significant deficiencies identified.

	内部控制体系 Internal control system
日常监督 Routine monitoring	将资金内控监督、内控缺陷整改等纳入日常监督范围,开展常态化监督。 Integrate fund internal control and oversight and the rectification of control deficiencies into routine supervision, establishing a framework for continuous monitoring.
年度评价 Annual evaluation	按照公司内控三年监督计划安排,采用全面自评 + 监督评价方式开展年度内控评价。 In line with the Company's three-year internal control and supervision plan, conduct annual evaluations using a combination of comprehensive self-assessment and supervisory assessment.  内控自评按照问题导向原则,聚焦所管各单位问题易发领域,开发设计了规范的内控评价标准 + 结构化的评价表单模板,引导所管各单位自我发现问题,推进内控自评机制与责任的落实。 The internal control self-assessment follows a problem-based approach, targeting areas prone to issues across subsidiaries. A standardized evaluation criteria and a structured template for evaluation forms have been created to help subsidiaries identify issues independently and promote the implementation and accountability of the internal control self-assessment process.  内控监督评价按照风险导向原则,确定了纳入评价范围的主要单位、业务和事项以及高风险领域 The internal control supervision evaluation employs a risk-based approach to identify key units, businesses, and areas of high risk within the evaluation scope
内控审计 Internal control audit	公司每年聘请会计师事务所对公司开展内控审计。 The Company hires an accounting firm every year to conduct an internal control audit.

### 合规管理

根据《公司法》、国资委《中央企业合规管理办法》《中 央企业合规管理指引(试行)》等规定,吉电股份党委 发挥把方向、管大局、保落实的领导作用,把党的领导 贯穿合规管理全过程,进而推动公司合规要求得到严格 遵循和落实,不断提升依法合规经营管理水平,从而形 成分工协调、各司其职、紧密衔接的合规组织架构。

### **Compliance management**

In accordance with the "Company Law", SASAC's "Compliance Management Measures for Central Enterprises," and the "Compliance Management Guidelines for Central Enterprises (Trial)", the Party Committee of Jilin Electric Power plays a crucial role in "setting direction, overseeing the overall situation, and ensuring implementation". It integrates Party leadership throughout the entire compliance management process to ensure rigorous adherence to its compliance requirements. This continuous improvement in lawful and compliant business operations results in a well-coordinated compliance structure where work and responsibilities are clearly defined and seamlessly integrated.

合规管理体系 Compliance management system			
董事会	· 合规体系的领导和最终决策机构		
Board of Directors	The leading and final decision-making body of the compliance system		
经理层	·建立健全合规管理组织架构、保障合规体系有效运行		
Management level	Establish and refine the compliance management organizational structure to ensure the effective operation of the compliance system		
法治央企建设领导小组 Leading Group for Building a Law-Compliant State- Owned Enterprise	·小组成员包括公司部分董监高成员、本部部门及所管单位负责人 The group includes some directors, supervisors, and senior executives, as well as heads of headquarter departments and subsidiaries ·负责合规管理的组织领导和统筹协调工作 Responsible for the organizational leadership and coordination of compliance management ·对公司依法治企工作提出专业性意见或建议,组织开展法治建设相关具体工作 Provides professional opinions or suggestions on the Company's legal compliance initiatives and organize specific legal construction activities ·负责贯彻落实国家依法治企相关规定、文件及工作要求、审议、研究、协调、处理依法治企有关制度、方案、报告和重大事项等工作 Implements state regulations, documents, and requirements on legal compliance; reviews, researches, coordinates, and handles matters related to legal governance, including systems, plans, reports, and major issues		
公司法律与风险管理部 Legal and Risk Management Department	· 合规工作的归口管理部门 Central department for compliance management · 组织、协调和监督合规管理工作,为其他部门提供合规支持 Organizes, coordinates and supervises compliance efforts, offering compliance support to other departments		
业务部门	· 职能范围内的合规体系建设和运行		
Business departments	Develop and execute the compliance system within the range of its function		

公司 2024 年印发《关于建立领导干部履行依法合规经营 责任平时档案的实施方案》,将依法合规经营情况纳入 干部平时档案,促使所管单位领导干部切实履行法治合 规主体责任。开展合规体系认证,公司本部和所属东北 区域公司通过国内外合规管理体系认证。

In 2024, the Company issued the "Implementation Plan for Establishing a Regular Archive of Leadership Cadres' Compliance Responsibilities", incorporating legal and compliance management into cadre records to urge leadership of subsidiaries to effectively fulfill their primary responsibilities for compliance with law. Additionally, the Company conducted compliance system certification, with the headquarter and its Northeast Regional Company having achieved domestic and international compliance management system certifications.

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环境责任

#### 合规机制 Compliance mechanism 组织公司全体员工签署合规承诺书,并建立岗位合规机制,实现合规管理和业务管理有机 全员合规承诺制 Implementing company-Organize all employees of the Company to sign a compliance commitment letter and establish wide compliance a position-specific compliance mechanism to achieve an organic integration of compliance commitment management and business management. 针对规章制度制定、重大事项决策、重要合同签订、重大项目运营等改革发展和经营管理 强化合规管理审查机制 活动重要业务领域关键节点加强合规审查,强化过程管控。 Strengthening the Enhance compliance review at critical points in key business areas such as rule-making, major compliance management decision-making, important contract signing, and major project operations related to reform and review mechanism development, as well as daily business management. 建立合规评价机制 通过整改消缺促进合规体系持续完善和管理提升,为合规体系常态化运行奠定基础。 Establishing the Promote the continuous improvement of the compliance system and management enhancement through rectification and defect elimination, thus laying a foundation for the routine operation of the compliance evaluation mechanism compliance system. 建立违规问责机制 通过畅通举报渠道,针对反映的问题和线索,及时开展调查,严肃追究违规人员责任。

Establishing the

mechanism

violation accountability

### 通过合规体系认证

### Passing the compliance system certification

are held accountable.

吉电股份于 2024 年 8 月启动合规体系认证计划,通过 内审培训、内审指导、现场管理评审,访谈,监督审 核等,最终于2024年10月通过了合规管理体系GB/ T 35770-2022 国家标准和 ISO 37301:2021 国际标准 认证,标志着公司在加强内部治理、提升业务透明度 及确保合法合规运营方面迈出了重要一步。

In August 2024, Jilin Electric Power embarked on a compliance system certification plan. After a series of internal audit training, quidance, on-site management reviews, interviews, and supervision audits, the Company successfully obtained certification in October 2024 for the GB/T 35770-2022 national standard and the ISO 37301:2021 international standard for compliance management systems. This marks a significant advancement in enhancing the Company's internal



By maintaining open reporting channels, issues and leads are promptly investigated, and violators



图: 合规管理体系认证证书 Picture: Compliance Management System Certification Certificate

governance, improving business transparency, and ensuring legal and compliant operations.

### 风险管理

吉电股份建立覆盖目标与计划设定、风险识别、风险评估、 风险应对、风险监控预警、监督与改进的风险闭环管理 机制,并引入数字化工具,推进风险管理工作常态化、 有序开展。公司的数字风控平台以创新风险辨识机制作 为风控数字化转型的先决条件,以创新风险预警机制作 为风控数字化转型的重要基础,实现投资项目身份证式 管理、风险在线评估、法律意见书在线出具、风控措施 动态跟进、关键风险监控预警等功能,推进风险管理三 道防线之间的高效运行和协同管理,全面提升投资项目 整体风险防控能力。

在制度上,公司构建《风险管理规定》《投资项目及重 大资本运作决策事项风险管理办法》等内部管理制度。 2024年公司未发生重大风险事件。

### Risk management

Jilin Electric Power has established a closed-loop risk management mechanism that covers target and plan setting. risk identification, risk assessment, risk response, risk monitoring and early warning, supervision, and improvement. The Company has further streamlined and regularized risk management activities through the integration of digital tools. The Company's digital risk control platform prioritizes an innovative risk identification mechanism as a prerequisite for the digital transformation of risk management, while an advanced risk early warning system forms the foundation. The platform offers features such as identity-based management of investment projects, online risk assessment, online issuance of legal opinions, dynamic tracking of risk control measures, and key risk monitoring and alerts. It ensures efficient operation and coordination among the three lines of defense in risk management, significantly enhancing the overall risk prevention and control capabilities of investment projects.

In terms of institutional structure, the Company has established internal management systems, such as the "Risk Management Regulations" and the "Risk Management Measures for Investment Projects and Major Capital Operations". No major risk events were recorded throughout the year 2024.

	风险管理体系
	Risk management system
	·风险管理工作的领导及最终决策机构
董事会	The leading and final decision-making body for risk management
Board of Directors	·对风险管理的有效性负责
	Ensures the effectiveness of risk management practices
董事会下设审计委员会	·根据董事会授权审议公司风险管理相关重大事项,向董事会提出风险管理相关意见和建议
Audit Committee under the Board of Directors	Authorized by the Board to review major matters related to the Company's risk management, and provides the Board with opinions and recommendations on risk management
经理层	·风险管理体系建设及组织实施公司风险管理工作
Management level	Responsible for the construction and organizational implementation of the Company's risk management system
	·作为风险管理第一道防线
	Serve as the first line of defense in risk management
各职能部门	·业务范围内的具体风险的管理
Functional departments	Manage specific risks within their scope of operations
	·接受公司风险归口管理部门的组织、协调、监督及考核
	Subject to organization, coordination, supervision, and assessment by the Company's primary risk management department
	·作为风险管理第二道防线
法律与风险管理部	Serve as the second line of defense in risk management
Legal and Risk	·全面风险管理体系的建设和整体运转
Management	Oversees the development and overall operation of the comprehensive risk management system
Department	·风险管理工作的组织协调
	Organizes and coordinates risk management work

吉电暖民生:

社会响应

续表

走进吉电

风险管理体系						
	Risk management system					
审计部 Audit Department	·作为风险管理第三道防线 Serve as the third line of defense in risk management ·是公司风险管理体系的独立监督部门 The independent supervisory body for the Company's risk management system ·对公司各部门及所管各单位的风险管理体系建设、执行情况进行独立检查和评估,出具审计报告,提出改进建议					
	Conducts independent inspections and evaluations of the risk management system development and execution across all departments and subsidiaries, issues audit reports, and offers recommendations for improvement					

	风险管理举措 Risk management measures			
强化重大风险动态跟踪与源头 治理 Strengthening dynamic monitoring and root cause management of major risks	全面识别和评估 2024 年公司风险,逐项制定应对措施,并建立"年评估季跟进"风险识别评估机制和风险预警机制,加强风险源头治理,确保风险早识别、早处置。 Conduct a thorough identification and assessment of company risks for 2024, formulate targeted response measures for each risk, and establish a "yearly assessment and quarterly follow-up" mechanism for risk identification, assessment, and early warning. Focus on root cause management to facilitate early risk identification and intervention.			
严格执行重大风险报告机制 Strictly implementing the major risk reporting mechanism	建立年度重大风险和重大决策风险台账,动态跟踪重大风险防范化解情况,确保重大风险可控在控。 Establish an annual record for major risks and major decision-making risks, dynamically track the prevention and resolution of major risks, and ensure that major risks remain controllable and under control.			
加强重大投资项目风险评估报告质量管理 Improving the quality management of risk assessment reports for major investment projects	发布《关于规范风险评估报告和法律意见书工作的通知》,持续提升投资项目风险防控成效; Issue a "Notice on Standardizing Risk Assessment Reports and Legal Opinions" to continuously enhance the effectiveness of risk prevention and control for investment projects; 涉及重大项目的投资决策,均提交董事会审计委员会对重大项目风险评估报告进行审议。 All investment decisions involving major projects must be reviewed by the Audit Committee of the Board of Directors based on the major project risk assessment report.			
持续推动数字风控建设 Continually advancing digital risk control construction	升级投资项目数字风控平台,由项目级风险向全域风险管理拓展,实现公司各层级、各业态、各领域风险画像和全过程风险防控管理; Upgrade the digital risk control platform for investment projects, expanding from project-level risks to comprehensive risk management across the entire company, ensuring risk profiling and comprehensive risk control management at all levels, across all business types and fields; 针对有条件通过的项目新增风险信息跟进功能,确保有效落实管理层投资决策要求。 Add a follow-up function for new risk information in conditionally approved projects to ensure effective implementation of management investment decision requirements.			

### 以廉洁健行远: 反商业贿赂与反贪污

Integrity for sustainable development: Anti-commercial bribery and anti-corruption

吉电股份遵照《中华人民共和国刑法》《中华人民共和 国反洗钱法》等法律法规,通过运用典型案例强化警示 教育,形成了有效震慑。2024年公司或员工没有涉及法 院审结的贪污诉讼案件。

Jilin Electric Power complies with the "Criminal Law of the People's Republic of China", the "Anti-Money Laundering Law of the People's Republic of China", and other relevant laws and regulations. The Company has established an effective deterrent by employing typical cases for enhanced warning education. In 2024, neither the Company nor its employees were involved in any court-concluded corruption litigation cases.

### 反腐倡廉措施

### Anti-Corruption and integrity measures

·建立并持续健全反商业贿赂及反贪污政策制度体系,包括《问题线索集中统一管理办法》《领 导人员廉洁档案管理办法》等。相关政策制度全面覆盖公司及下属机构、业务和人员,为公司 长期稳健发展提供坚实保障。

Establish and continuously improve the policies and systems against commercial bribery and corruption, including the "Centralized Management Measures for Clues" and the "Management Measures for the Integrity Files of Leaders". The relevant policies and systems comprehensively cover the Company, its subsidiaries, businesses, and personnel, providing a solid guarantee for the Company's long-term stable development.

#### 反贪反腐治理 Anti-corruption governance

·建立了全面覆盖"党委 - 纪委 - 纪委办 - 所属企业"的反腐败管理架构。党委负责从决策层面 推进公司反腐败管理工作; 纪委协助公司党委组织、协调开展反腐败工作; 纪委办具体落实公 司党委、纪委要求;各所属企业设立纪检机构,配备专(兼)职纪检工作人员,依规依纪开展 反腐败工作。

Established a comprehensive anti-corruption management structure that spans the "Party Committee-Discipline Inspection Commission-Discipline Inspection Office-subsidiaries". The Party Committee is responsible for leading anti-corruption efforts at the decision-making level. The Discipline Inspection Commission assists the Party Committee in organizing and coordinating anti-corruption activities. The Discipline Inspection Office implements the directives of the Party Committee and the Discipline Inspection Commission. Each subsidiary sets up its own discipline inspection agency with dedicated or part-time staff to conduct anti-corruption activities per regulations and guidelines.

·严格按照国家法律法规以及公司的规章制度,采取"零容忍"的态度惩治贪污腐败行为。

Adopt a "zero tolerance" approach to punishing corrupt practices, strictly adhering to national laws and regulations, as well as the rules and regulations of the Group and the Company.

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### 反腐倡廉措施 Anti-Corruption and integrity measures

- · 遵照《纪检监察机关处理检举控告工作条例》要求,规范检举人保护机制,维护检举人的合法权益。 In line with the "Regulations on Handling Whistleblowing by Discipline Inspection and Supervision Organs", standardized the protection mechanism for whistleblowers to safeguard their legitimate rights and interests.
- ·建立完善的举报管理与处理机制,确保全体员工及相关方可以在保密情况下,通过举报电话、 举报邮箱等渠道举报怀疑涉及本公司领导干部的违纪和职务违法行为。我们对举报者信息及权 益保障做出严格要求,确保举报者的身份得到保密,承诺员工不会因举报而受到不公平解雇、 伤害或不当的纪律处分。

#### 廉洁举报机制 Integrity reporting mechanism

Established a sound reporting management and handling mechanism to ensure that all employees and stakeholders can confidentially report suspected misconduct or violations involving the Company's leadership through hotlines, email, and other channels. We impose strict requirements on the protection of the information and rights of whistleblowers, ensuring that the identity of the whistleblower is kept confidential and promising that employees will not face unfair dismissal, harm, or undue disciplinary actions for making a report.

·制定标准的信访举报受理、问题线索处置、案件审查程序,并通过集中研判,层层审签,及时 上传案管系统等方式,科学办理检举控告。

Establish standardized procedures for accepting petition letters and reports, processing problem leads, and reviewing cases. Utilize methods such as centralized assessments, tiered approvals, and timely uploads to the case management system to ensure effective handling of complaints and reports.

### 廉洁风险控制 Integrity risk control

·建立以案促改机制,剖析案件原因,在日后的运营过程中加强廉洁风险管控

Established a mechanism that uses case analysis to drive reform by examining the causes of cases and enhancing integrity risk management in future operations

·积极构建大监督体系,充分发挥纪检监督、职能监督、审计监督和巡察监督的协同作用,通过 专项监督检查、建立风险库等方式,有效防控燃料管理、招标采购、工程建设等重点领域、关 键环节的廉洁风险。

Actively construct an integrated supervision system that capitalizes on the coordinated supervision functions of disciplinary, functional, audit, and inspection. Use methods such as special supervision inspections and the establishment of a risk database to effectively prevent and control integrity risks in key areas and critical links such as fuel management, tendering and procurement, and construction projects.

#### 反腐倡廉教育 Anti-Corruption and integrity education

·针对各层级员工统筹融合开展廉洁从业教育与业务培训,通过集中学习教育、谈话提醒等方式, 实现教育培训全覆盖。在新员工入职培训中专门增加廉洁从业内容,加强年轻干部反腐倡廉 教育。

Organize comprehensive anti-corruption and business training for employee at all levels through centralized learning and reminder discussions to ensure full educational coverage. Integrate integrity training into new employee orientation training to strengthen anti-corruption education for young leaders.

### 以沟通促信任:回馈投资者

Fostering trust through communication: Investor relations

### 投资者关系管理

吉电股份严格执行落实《投资者关系管理办法》,设立 一系列投资者关系管理流程,持续优化投资者沟通内容 和方式、加强投资者关系管理的组织与实施。公司在提 高沟通效率的同时, 保证投资者关系工作的合规性和公 平性。公司高度重视中小投资者权益保护,在保证股东 会合法有效的前提下,为中小股东参加股东会提供包括 网络投票在内的便利条件:在选举董事、监事时采用累积 投票制,高于公司治理准则要求,力求有效保护中小股 东的选举权。公司积极建立公平透明共赢的投资者关系, 主动倾听投资者声音,完善市值管理,保障投资者长远 利益。

公司通过股东会、路演、反向路演、业绩说明会、分析 师会议、接待来访、热线电话、公司网站专栏、新媒体 平台等多种途径,拓展利益相关方沟通的广度和深度, 增进其对公司的认同。2024年,公司召开业绩说明会3次, 其中两次年度会议,一次年中会议,具体有参加由深圳 证券交易所组织召开的以"能源革命焕新机"为主题的 集体业绩说明会等;与投资者开展10次交流及调研,参 与机构 74 家,参与人员 92 人,10 家研究机构出具公司 研究报告 19 份。通过与投资者的充分交流,及时更新公 司经营状况,促进公司与资本市场的长期协调发展。

投资者沟通平台回复次数 268 次

Number of investor communication platform responses: 268

投资者提问回复率 100%

Investor guery response rate: 100%

投资者交流及调研接待次数 10 次

Number of investor communications and research receptions: 10

### Investor relations management

Jilin Electric Power rigorously implements the "Investor Relations Management Measures" by establishing a series of robust investor relations management processes, continuously optimizing the content and methods of communication with investors and strengthening the organization and implementation of investor relations management initiatives. The Company is committed to ensuring the compliance and fairness of its investor relations efforts, while improving communication efficiency. The Company places significant importance on protecting the rights and interests of small and medium investors. Under the premise of ensuring the legality and effectiveness of shareholder meetings, it facilitates the participation of small and medium shareholders by offering conveniences such as online voting. The adoption of a cumulative voting system for electing directors and supervisors surpasses the Company's governance guidelines, aiming to effectively protect the voting rights of small and medium shareholders. The Company is committed to establishing a fair, transparent, and mutually beneficial investor relationship. By actively listening to investor voices, it strives to improve market value management, and safeguard the long-term interests of investors.

The Company broadens and deepens engagement with stakeholders through a variety of channels, such as shareholder meetings, roadshows, reverse roadshows, performance briefings, analyst meetings, on-site visits, hotlines, a dedicated company website section, and new media platforms, enhancing their recognition and support. In 2024, the Company held three performance briefings, including two annual meetings and one mid-year meeting. Notably, it participated in a collective performance briefing organized by SZSE with the theme "Energy Revolution: Renewing the Momentum". It engaged in 10 sessions of communication and research with investors, involving 74 institutions and 92 participants. Furthermore, a total of 10 research institutions produced 19 research reports on the Company. Through extensive communication with investors, the Company ensures timely updates on its business operations, promoting a harmonious and sustainable development with the capital market.



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公司按时组织股东会的召集、召开和表决,确保股东会 正常召开和依法行使职权,充分保障股东的参与权、知 情权、表决权等正当权益。公司重视并致力于保护中小 股东的合法权益不受侵害。根据公司《章程》《未来三 年(2023-2025)股东回报规划》等相关安排,报告期内, 公司实施两次现金分红,2024年度全年分红预计3.84亿 元,分红率 34.98%。全年合计每股分红 0.133 元。

### 债权人权益

2024年吉电股份在信贷方面无不良信用记录。公司被国 内权威信用评级机构中诚信国际信用评级有限责任公司 确认为 AAA 主体信用评级, 评级展望为"稳定"。

The Company promptly organize and conduct shareholders meeting to ensure proper procedures for convening, voting, and exercising legal rights, fully safeguarding the legitimate rights of shareholders, including their rights to participate, be informed, and vote. The company prioritizes and is dedicated to safeguarding the legitimate rights and interests of small and medium shareholders. In accordance with the Articles of Association, the Shareholders' Return Plan for the Next Three Years (2023-2025) and other relevant arrangements, the Company implemented two cash dividends during the reporting period. The full-year dividend for 2024 is projected to be 384 million yuan, with a dividend payout ratio of 34.98%. The total annual dividend per share is expected to be 0.133

### Rights of creditors

In 2024, Jilin Electric Power maintained a clean credit record. The Company has been affirmed with an AAA credit rating by CCXI, a reputable domestic credit rating agency, with a "stable"

### 信息披露制度

吉电股份认真履行上市公司信息披露义务,严格按照监 管机构要求和公司信息披露的相关规定,向全体股东和 广大投资者披露公司经营管理过程中的重大事项,使投 资者能够充分了解公司的经营动态。

2024年,公司披露定期报告2份,发布临时公告106份。

在深交所上市公司 2023-2024 年度信息披露评价中,获 得信息披露最高级 "A"级(优秀)评价。公司连续三年 获得信息披露 "A" 级评价, 体现了监管机构对公司信息 披露工作的全面持续认可。

### Information disclosure system

Jilin Electric Power diligently fulfills its information disclosure obligations as a listed company, strictly complying with regulatory requirements and relevant company disclosure regulations. It discloses major matters during the its operations to all shareholders and investors, ensuring they are well-informed about the Company's operational dynamics.

In 2024, the Company released 2 periodic reports and issued 106 interim announcements.

In SZSE's information disclosure evaluation for listed companies during the 2023-2024 period, the Company received the highest grade of "A" (excellent). The Company has received an "A" grade in information disclosure for three consecutive years, demonstrating the continuous and comprehensive recognition of the Company's information disclosure efforts by the regulatory authorities.



### 关键绩效表

Key performance table

### 环境范畴

### **Environmental category**

一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
	水资源	耗水总量 Total water consumption <sup>1</sup>	万吨 10,000 tons	73,747.64
	Water resources	新鲜水用量 Fresh water consumption	万吨 10,000 tons	2484.32
		能源消耗总量 Total energy consumption	吨标准煤 tons of standard coal	4,561,995.03
	能源 Energy	万元产值综合能耗(可比价) Comprehensive energy consumption per RMB 10,000 output (at comparable prices) <sup>2</sup>	吨标准煤 / 百万元 tons of standard coal per RMB million	332.03
资源消耗		化石能源消耗量 Fossil energy consumption	吨标准煤 tons of standard coal	4,490,388.77
Resource consum- ption		煤炭消耗量 Coal consumption	吨标准煤 tons of standard coal	4,488,597.87
		柴油消耗量 Diesel consumption	吨标准煤 tons of standard coal	1,790.90
		非化石能源消耗量 Non-fossil energy consumption	吨标准煤 tons of standard coal	2,274.66
		屋顶光伏 Rooftop photovoltaic	吨标准煤 tons of standard coal	2,274.66
		外购能源消耗量 Purchased energy consumption	吨标准煤 tons of standard coal	877.57
		外购电力 Purchased electricity	吨标准煤 tons of standard coal	877.57

<sup>1</sup> 耗水总量 = 新鲜水用量 + 水资源重复利用量
Total water consumption = fresh water consumption + water resource reuse

一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
		清洁能源消耗量 Clean energy consumption	吨标准煤 tons of standard coal	68,454.04
资源消耗 Resource	能源 Energy	非化石能源消耗量占比 Proportion of non-fossil energy consumption	%	0.05
consum- ption		清洁能源消耗量占比 Proportion of clean energy consumption	%	1.50
	物料 Materials	不可再生物料消耗量(燃煤) Non-renewable material consumption (coal)	吨 tons	9,743,586.00
	废水 Wastewater	废水排放量 Wastewater discharge	吨 tons	459,900.00
	固体废弃物 Solid waste	固体废弃物处置总量 Total solid waste disposal	吨 tons	2,236,852.96
		一般工业固体废物产生量 General industrial solid waste produced	吨 tons	2,236,493.00
		一般工业固体废物处置量 General industrial solid waste disposal	吨 tons	2,236,493.00
污染防治		一般工业固体废物产生密度 Generation intensity of general industrial solid waste <sup>3</sup>	吨 / 百万元 tons per RMB million	162.78
Pollution prevention		一般工业固体废物综合利用量 Comprehensive utilization of general industrial solid waste	吨 tons	2,236,493.00
		一般工业固体废物综合利用率 Comprehensive utilization rate of general industrial solid waste	%	100.00
		危险废物产生量 Hazardous waste produced	吨 tons	359.96
		危险废物处置量 Hazardous waste disposal	吨 tons	361.03
		危险废物产生密度 Generation intensity of hazardous waste⁴	吨 / 百万元 tons per RMB million	0.0262

<sup>3</sup> 一般工业固体废物产生密度 = 一般工业固体废物产生量 / 百万营收

<sup>2</sup> 百万营收综合能耗 = 能源消耗总量 / 百万营收 Comprehensive energy consumption per RMB 10,000 output = total energy consumption / RMB million of revenue

Generation intensity of general industrial solid waste = general industrial solid waste produced / RMB million of revenue

<sup>4</sup> 危险废物产生密度 = 危险废物产生量 / 百万营收
Generation intensity of hazardous waste = hazardous waste produced / RMB million of revenue

一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024		
	温室气体 排放 Greenhouse gas emissions <sup>5</sup>	温室气体排放总量 Total greenhouse gas emissions	吨二氧化碳当量 tons of carbon dioxide equivalent	12,897,083.60		
		范围一排放量 Emissions under Scope 1	吨二氧化碳当量 tons of carbon dioxide equivalent	12,896,189.04		
气候变化 Climate		排放 Greenhouse gas	范围二排放量 Emissions under Scope 2	吨二氧化碳当量 tons of carbon dioxide equivalent	893.56	
change			emissions <sup>5</sup> 温室气体》 Greenhous 温室气体护	温室气体减排量 Greenhouse gas emissions reduction	吨二氧化碳当量 tons of carbon dioxide equivalent	
				温室气体排放强度(1+2) Greenhouse gas emission intensity (1+2)	吨二氧化碳当量 / 万元 tons of carbon dioxide equivalent/ RMB 10,000	9.39

5 范围一温室气体排放主要源于公司生产运营过程消耗化石燃料产生的直接温室气体排放(如汽油、柴油、天然气等), 化石燃料燃烧产生的二氧化碳排放量 =( 汽油活动水平 \*0.0679)+( 柴油活动水平 \*0.0726)+( 天然气活动水平 \*0.0555), 能源 碳排放因子来自《工业其他行业企业温室气体排放核算方法与报告指南》。

Greenhouse gas emissions under Scope 1 arise mainly from direct emissions due to fossil fuel consumption (e.g., gasoline, diesel, natural gas) during the Company's production and operations. The carbon dioxide emissions from burning fossil fuels are calculated as: (Gasoline activity level \* 0.0679) + (Diesel activity level \* 0.0726) + (Natural gas activity level \* 0.0555). The energy carbon emission factors are sourced from the "Guidelines for Enterprise Greenhouse Gas Accounting and Reporting for Other Industrial Sectors".

范围二温室气体排放主要源于公司生产运营过程中消耗的电力、热力所产生的间接温室气体排放,间接温室气体排放量 =( 耗电量\*各区域电力平均二氧化碳排放因子+热力消耗量\*0.11;热力碳排放因子来自《工业其他行业企业温室气体排 放核算方法与报告指南》,区域电力平均二氧化碳排放因子采用国家发展和改革委员会发布的 2022 年区域电网平均二氧 化碳排放因子的公告值。

Greenhouse gas emissions under Scope 2 primarily stem from indirect greenhouse gas emissions resulting from the consumption of electricity and heat during the Company's production and operational processes. The indirect greenhouse gas emissions are calculated as: (Electricity consumption \* regional power average carbon dioxide emission factor) + (Heat consumption \* 0.11). The heat carbon emission factor is derived from the "Guidelines for Enterprise Greenhouse Gas Accounting and Reporting for Other Industrial Sectors", and the regional power average carbon dioxide emission factor is based on the announcement values from the NDRC's 2022 publication on regional power grid average carbon dioxide emission factors.

本数据尚未经过第三方核查。

This data has not yet been verified by a third party.

续表

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一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
环境管理 Environ-	环保投入 Investment	环保总投入 Total investment in environmental protection	万元 RMB 10,000	10,921.00
mental manag- ement	mental in environ- manag- mental	环保总投入占营业收入比例 The proportion of total investment in environmental protection to operating revenue	%	0.79

### 社会范畴

### **Social category**

一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
		员工总数 Total employees	人 people	3,731
		少数民族员工 Minority employees	人 people	371
		残疾员工 Disabled employees	人 people	18
	员工结构 Employee structure	按性别结构划分: By gender:		
员工		男性 Male	人 people	2,959
Employees		女性 Female	人 people	772
		按教育背景划分: By educational level:		
		博士 PhD	人 people	7
		硕士 Master degree	人 people	201
		本科 Bachelor degree	人 people	2,475

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一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
		专科 College degree	人 people	746
		专科以下 College degree below	人 people	302
		按年龄划分: By age:		
		29岁(含)以下≤29	人 people	564
		30 岁 -49 岁(含) 30 - 49 (include)	人 people	2,162
	员工结构	50 岁以上 > <b>50</b>	人 people	1,005
		按区域划分: By region:		
员工		中国大陆员工 From China mainland	人 people	3,731
Employees	Employee structure	港澳台员工 From Hong Kong, Macao and Taiwan	人 people	0
		海外员工 Overseas	人 people	0
		按专业构成划分: By professionals:		
		生产人员 Production staff	人 people	2,131
		销售人员 Sales staff	人 people	84
		技术人员 Technicians	人 people	545
		财务人员 Financial staff	人 people	223
		行政人员 Administrative staff	人 people	748

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一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
		新入职员工人数 Total new employees	人 people	194
		按性别结构划分: By gender:		
		男性 Male	人 people	147
	员工结构	女性 Female	人 people	47
	Employee structure	按招聘渠道划分: By recruitment channel:		
		应届毕业生 Fresh graduates	人 people	100
		社会招聘 Social recruitment	人 people	94
员工		劳动合同签订率 Labor contract signing rate	%	100
Employees	薪酬与福利 Remuneration and benefits	社保缴纳比率 Social security payment ratio	%	100
		人均带薪休假时间 Average paid vacation time per person	天 days	11
	员工职业健康安 全管理 Employees occupational health	职业伤害及职业病频次 Frequency of occupational injuries and diseases	人 people	0
		安全培训覆盖率 Safety training coverage rate	%	100
		安全生产责任险投入金额 Amount of investment in production safety liability insurance	元 RMB	111,154.00
	and safety	安全生产责任险人员覆盖率 Coverage rate of personnel in production safety liability insurance	%	51.90
		工作场所员工发生事故的数量 Number of employee accidents in the workplace	件 (s)	0

一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
		工作场所员工发生事故的比率(工伤率) Rate of employee accidents in the workplace (occupational injury rate)	%	0
		工作场所员工发生事故的变化情况 Changes in employee accidents in the workplace	%	0
	员工职业健康安	因工亡故人数 Number of work-related deaths	人 people	0
	全管理 Employees occupational health	因工亡故比率 Rate of work-related deaths	%	0
	and safety	因工伤损失工作时数 Work days lost due to work-related injuries	小时 hours	0
		职业病发生率 Occupational disease rate	%	0
		因工死亡人数 Number of work-related deaths	人 people	0
员工 Employees	关爱与帮扶 Care and support	员工帮扶投入 Investment in employee support	万元 RMB 10,000	44.20
		慰问金投入 Sympathy investment	万元 RMB 10,000	61.26
	发展与培训 Development and	全年培训场次 Training sessions throughout the year	次 (s)	52
		年度培训支出 Annual training expenses	万元 RMB 10,000	1,364.04
		培训总人次 Number of employees receiving training	人次 people	8,700
	training	员工培训覆盖率 Employee training coverage	%	100
		男性员工受训比例 Proportion of male employees receiving training	%	100
		女性员工受训比例 Proportion of female employees receiving training	%	100

一级指标	二级指标	指标		<b></b>
Primary indicator	Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
	42 D F 14 NII	高级管理层员工受训比例 Proportion of senior management employees receiving training	%	100
	发展与培训 Development and training	中级管理层受训比例 Proportion of mid-level management receiving training	%	100
		基层员工受训比例 Proportion of grassroots employees receiving training	%	100
	劳动纠纷解决机制 Labor dispute resolution mechanism	劳动纠纷案件数量 Number of labor dispute cases	件 (s)	0
		员工流失率 Employee turnover rate	%	0.29
	员工流动 Employee turnover	按性别结构划分 By gender		
		男性 Male	%	64
员工 Employees		女性 Female	%	36
		按年龄结构划分 By age		
		30岁(含)以下≤30	%	36
		30 岁 -50 岁(含) 30 - 50 (include)	%	55
		50 岁以上 > <b>50</b>	%	9
		按所在区域划分 By region		
		中国大陆员工 From China mainland	%	100
		港澳台员工 From Hong Kong, Macao and Taiwan	%	0
		海外员工 Overseas	%	0

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一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
	数据安全 Data security	网络安全事件数量 Number of cybersecurity incidents	件 (s)	0
		客户满意度调查参与人数 Number of participants in customer satisfaction survey	人 people	1,568
	客户服务与权益 Customer service and rights	客户投诉数量 Number of customer complaints	件 (s)	0
	-	客户投诉解决数量 Number of customer complaints resolved	件 (s)	0
		研发投入金额 Total R&D investment	万元 RMB 10,000	9,454.08
	创新发展 Innovation and development	研发投入占营业收入比例 Proportion of R&D investment to operating revenue	%	0.69
产品与服务		研发人员数量 Number of R&D personnel	人 people	315
管理 Product		研发人员占比 Proportion of R&D personnel	%	8.21
and service manag- ement	知识产权保护 Intellectual property protection	申请专利数量 Number of patents filed	↑ (s)	108
		发明专利申请数量 Number of invention patents filed	↑ (s)	101
		实用新型专利申请数量 Number of utility model patents filed	↑ (s)	7
		外观设计专利申请数量 Number of design patents filed	↑ (s)	0
		授权专利数量 Number of patents granted	↑ (s)	83
		发明专利授权数量 Number of invention patents granted	↑ (s)	15
		实用新型专利授权数量 Number of utility model patents granted		68
		外观设计专利授权数量 Number of design patents granted	↑ (s)	0

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一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024	
		有效专利数量 Number of patents in force		418	
		发明专利数量 Number of invention patents	↑ (s)	71	
		实用新型专利数量 Number of utility model patents	↑ (s)	346	
产品与服务		外观专利数量 Number of design patents	↑ (s)	1	
管理 Product and service manag- ement	知识产权保护 Intellectual property protection	百万营收有效专利数量 Number of patents in force per million revenue	个 / 百万元 per RMB million	0.03	
		商标权数量 Number of trademark rights	↑ (s)	8	
		著作权数量 Number of copyrights	↑ (s)	50	
		百万营收软件著作权数量 Number of software copyrights per million revenue	个 / 百万元 per RMB million	0.004	
	供应商管理 Supplier management	供应商数量 Number of suppliers	家 (s)	563	
		中国大陆供应商数量 Number of suppliers in mainland China	家 (s)	563	
供应链安全 与管理		港澳台及海外供应商数量 Number of suppliers from Hong Kong, Macao, Taiwan and overseas	家 (s)	0	
Supply chain security and manag- ement		因不合规被中止合作的供应商数量 Number of suppliers whose cooperation was terminated due to non-compliance	家 (s)	365	
		廉洁协议签订情况 Signing of Honesty and Integrity Agreement	家 (s)	563	
	供应链环节管理 Supply chain link management	供应链重大风险与影响事件数量 Number of major supply chain risks and events	件 (s)	0	

一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
	税务管理 Tax management	缴纳税费金额 Amount of tax paid	万元 RMB 10,000	124,097.66
社会贡献	公益慈善 Charity	志愿者数量 Number of volunteers	人 people	810
Social contribution		on Charity	志愿者服务总时长 Total volunteer service time	小时 hours
	乡村振兴 Rural revitalization	乡村振兴捐赠金额 Donation amount for rural revitalization	万元 RMB 10,000	235

### 公司治理范畴

### **Corporate governance category**

一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
	组织构成及职能 Organizational structure and functions	董事会人数 Number of directors	人 people	9
		董事会博士占比 Proportion of PhD holders on the Board	%	0
		董事会研究生占比 Proportion of Master degree holders on the Board	%	56
治理策略与组织 架构 Governance strategy		董事会本科及以下占比 Proportion of Board members with a Bachelor's degree or below	%	44
and organizational structure		董事会男性占比 Proportion of male directors	%	100
		董事会女性占比 Proportion of female directors	%	0
		独立董事占比 Proportion of independent directors	%	33
		非独立董事占比 Proportion of non-independent directors	%	67

一级指标	二级指标	三级指标	単位	×10
ऋग्रामण Primary indicator	—忽相亦 Secondary indicator	—忽知识 Tertiary indicator	手位 Unit	2024
		召开董事会次数 Number of board meetings	次 (s)	15
		董事会成员的平均任期 Average tenure of board members	年 years	1.46
		监事会人数 Number of supervisors	人 people	5
		外部监事占比 Proportion of external supervisors	%	20
		召开监事会次数 Number of Supervisory Board meetings	次 (s)	8
		监事会成员的平均任期 Average tenure of supervisors	年 years	0.87
	组织构成及职能 Organizational structure and functions	高管人数 Number of senior managers	人 people	8
治理策略与组织 架构 Governance strategy		高管博士占比 Proportion of executives with a PhD	%	0
and organizational structure		高管研究生占比 Proportion of executives with a Master degree	%	12.5
		高管本科及以下占比 Proportion of executives with a Bachelor degree or below	%	87.5
		高管男性占比 Proportion of male executives	%	100
		高管女性占比 Proportion of female executives	%	0
		高管成员的平均任期 Average tenure of senior management	年 years	1.54
	内部控制 Internal control	重大或重要内控缺陷数量 Number of major or significant internal control deficiencies	↑ (s)	0
	商业行为 Business practices	反腐倡廉培训时长 Duration of anti-corruption and integrity training	小时 hours	3

一级指标 Primary indicator	二级指标 Secondary indicator	三级指标 Tertiary indicator	单位 Unit	2024
	投资者关系管理 Investor relations	投关活动次数 Number of investor relations activities	次 (s)	13
投资者关系与股东		投资者交流会次数 Number of investor communication meetings	次 (s)	10
权益管理 Investor relations		累计接待投资者数量 Cumulative number of investors received	人次 people	92
and shareholder rights management	股东会董事出席率 Attendance rate of directors at shareholder meetings	召开股东会次数 Number of shareholder meetings	次 (s)	7
		股东会董事出席率 Attendance rate of directors at shareholder meetings	%	35.90
投资者关系与股东		编制与披露定期报告 Preparation and disclosure of regular reports	份 (s)	2
权益管理 Investor relations and shareholder	投资者关系管理 Investor relations management	披露的定期报告数量 Number of periodic reports disclosed	份 (s)	2
rights management		发布的临时公告 Number of temporary announcements issued	份 (s)	106

### 指标索引

Index of indicators

报告标题 Report title	深交所《指引》 SZSE's "Guidelines"	国务院国资委《指标体系》 SASAC's "Indicator System"		
专题:吉电赋新能——科技创新 Topic: Empowering with new energy through technological innovation	第四十一条、第四十二条 Article 41, Article 42	S2.3		
吉电筑善治: ESG 治理 Fostering effective governance through ESG governance	第十二条、第五十一条、第五十三条 Article 12, Article 51, Article 53			
吉电护青绿:环境责任 Committing to ecological protection through ful	filling environmental responsibilities			
以体系强保障:环境合规管理 Robust systems for assurance: Environmental compliance management	第二十九条、第三十三条 Article 29, Article 33	E5.6		
以行动应气候:气候变化管理 Action for climate: Climate change management	第二十一条至第二十八条 Articles 21 to 28	E3.1, E3.2, E3.3, E3.4, E5.1 E3.1, E3.2, E3.3, E3.4, E5.1		
以节约用资源:资源管理 Resource conservation: Resource management	第三十四条、第三十五条、第三十六条、 第三十七条 Article 34, Article 35, Article 36, Article 37	E5.2, E5.3 E5.2, E5.3		
以防治控污染:排污管理 Pollution prevention and control: Pollutant discharge management	第三十条、第三十一条、第三十七条 Article 30, Article 31, Article 37	E2.1, E2.2, E2.3 E2.1, E2.2, E2.3		
以守护保生态:生物多样性 Protection and conservation of ecosystems: Biodiversity	第三十二条 Article 32	E4.1, E5.4 E4.1, E5.4		
吉电助发展:稳定供电 Powering development through ensuring stable power supply				
以关怀促成长:员工管理 Fostering growth with care: Employee management	第五十条 Article 50	S1.1, S1.2, S1.4, S1.5 S1.1, S1.2, S1.4, S1.5		
以协同稳供应:供应链管理 Ensuring stability through collaboration: Supply chain management	第四十五条、第四十六条 Article 45, Article 46	S3.1, S3.2 S3.1, S3.2		

报告标题	深交所《指引》	国务院国资委《指标体系》
Report title	SZSE's "Guidelines"	SASAC's "Indicator System"
以服务优体验:客户管理 Enhancing experience through excellent service: Customer management	第四十七条 Article 47	S2.2
以质量保品质:质量管控 Guaranteeing quality: Quality control	第四十七条 Article 47	S2.1
以安全筑防线:生产安全 Building a safety net: Production safety	第五十条 Article 50	\$1.3, \$2.1 \$1.3, \$2.1
吉电暖民生:社会响应 Contributing to social well-being: Social respon	se	
以智数促升级:数字化转型 Upgrading through digital intelligence: Digital transformation	/	S4.4
以公益做表率:回馈社会 Leading with public welfare: Social contribution	第三十九条、第四十条 Article 39, Article 40	S4.2, S4.3 S4.2, S4.3
以纳税履责任:税务管理 Fulfilling responsibility through tax compliance: Tax management	/	S4.1
吉电稳善政:公司治理 Fostering effective governance through corpora	te governance	
以党建铭初心: 党建引领 Sticking to our original aspiration through Party building: Party leadership	/	G1.1
以治理稳前行:治理架构 Advancing with stable governance: Governance structure	/	G1.2, G1.3 G1.2, G1.3
以合规控风险:风控管理 Controlling risks with compliance: Risk management	/	G2.1, G5.1, G5.2 G2.1, G5.1, G5.2
以廉政健行远:反商业贿赂与反贪污 Integrity for sustainable development: Anti- commercial bribery and anti-corruption	第五十四条、第五十五条、第五十六 条 Article 54, Article 55, Article 56	G2.2, G2.3 G2.2, G2.3
以沟通促信任:回馈投资者 Fostering trust through communication: Investor relations	/	G3.1, G3.2, G3.3, G4.1, G4.2 G3.1, G3.2, G3.3, G4.1, G4.2

### 称谓说明

Title explanation

在本报告书中,除非文义另有所指,下列词语具有如下含义:

In the Report, unless the context otherwise requires, the following terms have the following meanings:

常用词语释义				
Definitions of common words				
证监会 / 中国证监会	指	中国证券监督管理委员会		
CSRC	Refers to	China Securities Regulatory Commission		
国家发改委	指	中华人民共和国国家发展和改革委员会		
NDRC	Refers to	National Development and Reform Commission of the People's Republic of China		
国务院国资委	指	国务院国有资产监督管理委员会		
SASAC	Refers to	State-owned Assets Supervision and Administration Commission of the State Council		
深交所	指	深圳证券交易所		
SZSE	Refers to	Shenzhen Stock Exchange		
		《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		
《指引》	指	报告(试行)》		
"Guidelines"	Refers to	"Guidelines for Self-Regulatory Supervision of Listed Companies on the Shenzhen Stock Exchange No. 17 - Preparation of Sustainable Development Reports (Trial)"		
《公司法》	指	《中华人民共和国公司法》		
"Company Law"	Refers to	Company Law of the People's Republic of China		
《证券法》	指	《中华人民共和国证券法》		
Securities Law	Refers to	Securities Law of the People's Republic of China		
国家电投	指	国家电力投资集团有限公司		
SPIC	Refers to	State Power Investment Corporation		
吉电股份 / 本公司 / 公司	指	吉林电力股份有限公司		
Jilin Electric Power/ the Company	Refers to	Jilin Electric Power Co., Ltd		
东北区域公司	指	吉林吉电新能源有限公司		
Northeast Regional Company	Refers to	Jilin Electric Power (Jilin) New Energy Co., Ltd.		
华中区域公司	指	江西中电投新能源发电有限公司		
Central China Regional Company	Refers to	CLP (Jiangxi) New Energy Power Co., Ltd.		
华北区域公司	指	北京吉能新能源科技有限公司		
North China Regional Company	Refers to	Beijing Jineng New Energy Technology Co., Ltd.		
白城发电公司	指	吉林电力股份有限公司白城发电公司		
Baicheng Power Company	Refers to	Jilin Electric Power Baicheng Power Company		
松花江热电公司	指	吉林松花江热电有限公司		
Songhuajiang Thermoelectricity	Refers to	Jinlin Songhuajiang Thermoelectricity Co.,Ltd.		
四平第一热电公司	指	吉林电力股份有限公司四平第一热电公司		
Siping First Thermal Power Company	Refers to	Jilin Electric Power Siping First Thermal Power Company		