



2024

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT

Beijing Jingneng Clean Energy Co., Limited

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ABOUT THE REPORT

This is the 9th Environmental, Social and Governance Report (the “Report” or the “ESG Report”) published by Beijing Jingneng Clean Energy Co., Limited (“Jingneng Clean Energy”, “the Company”, “we”, or “our”). The Report details the Company’s practices in environmental protection and governance, social responsibility and contribution, and modern corporate governance, alongside targeted responses to stakeholder concerns.

Reporting Period

The Report is an annual report, covering the period from January 1, 2024 to December 31, 2024 (the “Year”, “2024” or the “Reporting Period”). Some content may reference earlier or later periods where relevant.

Reporting Scope

The Report’s content and performance indicators encompass the Company’s headquarters and all branches and subsidiaries. Financial information is consistent with and complementary to the Company’s annual report. For detailed financial information, please refer to the 2024 annual report of Jingneng Clean Energy.

Preparation Basis

The Report strictly adheres to Appendix C2 *Environmental, Social and Governance Reporting Guide* (“ESG Reporting Guide”) of the *Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited* (“Listing Rules”). It also references the *Study on ESG Special Report Compilation Guidelines for Central State-Owned Listed Companies* by the State-owned Assets Supervision and Administration Commission (“SASAC”) of the State Council, United Nations Sustainable Development Goals (“UN SDGs”), and the Climate-related Disclosures (“IFRS S2”) of the International Sustainability Standards Board (“ISSB”).

The Report fully complies with the four reporting principles outlined in the *ESG Reporting Guide*—Materiality, Quantitative, Balance, and Consistency—as well as its “Mandatory Disclosure” and “Comply or Explain” provisions.

- Materiality principle: During the compilation of the Report, ESG issues with material impact on our business and stakeholders were identified and disclosed in a matrix format. The Report offers detailed responses to material ESG issues.
- Quantitative principle: The Report establishes and outlines ESG goals, while disclosing both the quantifiable performance indicators and progress indicators to ensure a complete presentation of the Company’s performance.
- Balance principle: The Report reflects objective facts without selectively disclosing positive information or downplaying negative information, ensuring stakeholders receive complete information about the Company’s ESG performance.
- Consistency principle: The Report continues to disclose multiple performance indicators for three consecutive years. Most indicators use the same statistical disclosure methodology as previous years to ensure good comparability of historical data. Where statistical methodology has been adjusted for certain indicators, this is clearly explained in the Report.

Information Explanation

All information in the Report derives from the Company’s internal documents, including rules, regulations, and key initiatives. Unless otherwise stated, all amounts are denominated in RMB. The Report contains no false records, misleading statements, or material omissions.

Assurance Information

To further ensure truthfulness and reliability, the selected indicators of the Report has been independently assured by the independent auditor Deloitte Touche Tohmatsu LLC (Special General Partnership). The assurance basis, work scope, work methodology, and assurance conclusions can be found in Appendix 4 “Independent Limited Assurance Report”.

Report Availability

The Report is available in the ESG column of Investor Relations on the official website of Jingneng Clean Energy (<https://www.jncec.com/index.html>) and the HKEXnews platform of The Stock Exchange of Hong Kong (“Hong Kong Stock Exchange”) (https://www.hkexnews.hk/index_c.htm). For feedback or suggestions, please contact us at esg-jncec@jncec.com.

Glossary

Abbreviation	Full Name
“BEH”	Beijing Energy Holding Co., Ltd.
“Beijing Branch”	Beijing Jingneng Clean Energy Co., Limited Beijing Branch
“Inner Mongolia Branch”	Beijing Jingneng Clean Energy Co., Limited Inner Mongolia Branch
“Northeast Branch”	Beijing Jingneng Clean Energy Co., Limited Northeast Branch
“Northwest Branch”	Beijing Jingneng Clean Energy Co., Limited Northwest Branch
“Central China Branch”	Beijing Jingneng Clean Energy Co., Limited Central China Branch
“South China Branch”	Beijing Jingneng Clean Energy Co., Limited South China Branch
“Southwest Branch”	Beijing Jingneng Clean Energy Co., Limited Southwest Branch
“Shanxi Branch”	Beijing Jingneng Clean Energy Co., Limited Shanxi Branch
“Xinjiang Branch”	Beijing Jingneng Clean Energy Co., Limited Xinjiang Branch
“Jingfeng Gas”	Beijing Jingfeng Gas-Fired Power Co., Ltd.
“Jingqiao Power”	Beijing Jingqiao Thermal Power Co., Ltd.
“Jingxi Power”	Beijing Jingxi Gas-fired Power Co., Ltd.
“Jingyang Power”	Beijing Taiyanggong Gas-fired Power Co., Ltd.
“Shangzhuang Power”	Beijing Shangzhuang Gas-fired Power Co., Ltd.
“Weilai Power”	Beijing Jingneng Weilai Gas-fired Power Co., Ltd.
“Gaoantun Power”	Beijing Jingneng Gaoantun Gas-fired Power Co., Ltd.
“Jingyi Power”	Yichang City Yiling District Zhongji Power Co., Ltd.
“International Energy”	Beijing Jingneng International Energy Technology Co., Ltd.
“Comprehensive Energy”	Beijing Jingneng Comprehensive Energy Co., Ltd.

CHAIRMAN'S MESSAGE



As time advances, the seasons renew. 2024 marked a decisive year in achieving the goals of the 14th Five-Year Plan. It was also a critical year of China's new journey toward a modern socialist country in an all-round way and a milestone year of advancing ESG to new heights. The introduction of new ESG regulations by stock exchanges in Hong Kong, Shanghai, Shenzhen and Beijing, as well as the SASAC and the Ministry of Finance, signals that ESG factors have become core metrics for capital market resource allocation, guiding businesses toward higher levels of sustainability. Despite complex challenges including global economic slowdown, domestic industry policy adjustments, and power price fluctuations, Jingneng Clean Energy has pursued fast and quality progress amid stability while proactively pursuing excellence. After eight years of ESG dedication, Jingneng Clean Energy has entered the deep-water zone of high-quality and sustainable development. Jingneng Clean Energy is advancing toward a brighter future with rock-solid conviction and pioneering determination!

In 2024, guided by Xi Jinping Thought on Socialism with Chinese Characteristics for the New Era, we refined our ESG strategic thinking based on the institutional characteristics of state-controlled listed company. Anchored in our mission of “fostering high-quality development of State-owned Enterprises (“SOEs”) with sustainability philosophy in the new era”, we promoted our ESG management to achieve three transitions from passive to proactive, from form to substance, and from benchmarking to setting standards. We launched initiatives focusing on two highlights: digital and intelligent industry applications and improving risk prevention and carried out special actions. Committed to fulfilling our ESG responsibilities, we reshaped management processes through digital intelligence and coordinated innovation in management models with operational efficiency upgrades. We adopted a risk-oriented approach by formulating compliance guidelines and implementing comprehensive work safety actions. We optimized talent incentives and promotion channels to stimulate internal momentum. As a result, our ESG management levels and key performance indicators have consistently improved, laying a solid foundation for better ESG management of Jingneng Clean Energy in the future.

Our sustainability achievements have gained widespread recognition from capital markets and society. With Jingneng Clean Energy's primary responsibilities and core business maintaining steady growth, we ranked 275th on the list of 2024 Global Top 500 New Energy Enterprises. Our ESG performance leads the industry, making us the only one to receive a four and a half rating in the “ESG Pioneer 30 Index of State-Owned Listed Companies in Beijing”. We were rated among the 2024 Wind Top 100 ESG Best Practices of Chinese Listed Companies and have maintained Wind's Utilities Industry AA rating for three consecutive years.

Consolidating the foundation of governance and leading quality and efficiency enhancement with innovation. This year, Jingneng Clean Energy adopted digital and intelligent management tools to upgrade our internal management model that features “unmanned shifts, minimal staffing, centralized monitoring, and smart O&M”. Our Smart Supervision Center in Beijing oversees 13 centralized control centers and all operational sites nationwide, markedly improving both management and production efficiency, and driving our high-quality growth by fostering new core competitiveness. Committed to fortifying the foundation of governance and following Party building guidance, we practiced corporate governance in accordance with laws and regulations, improved our internal systems, achieved full legal scrutiny on major decisions, and promoted synergistic governance across inspections, disciplinary oversight, audits, and operations. Additionally, we deepened ESG management. By approving and publishing a series of systems for compliance, internal control, employee training, procurement management, commercial anti-bribery, and corporate governance, we comprehensively consolidated ESG responsibilities. This year, we invested RMB880 million in technological innovation, with R&D spending intensity of 3.6%. We secured 19 invention patents, 76 utility model patents, and 34 software copyrights. Notably, our “Research and Application of Key Technologies for Ensuring Gas Turbine Air Intake Cleanliness” project earned the industry's First Prize of Science and Technology Progress Award, underscoring our exceptional strength in the field of technological innovation.

Focusing on primary responsibilities and core business and practicing the green development philosophy. This year, dedicated to our core business of clean energy, Jingneng Clean Energy actively explored the path to green development, with installed renewable energy capacity in total installed capacity above 70%. Through the “Green Power to Beijing” program, despite difficulties, we continuously intensified the development of green power projects and actively prepared for the construction of projects including the Mentougou and Guanting pumped storage facilities and the Chengde Base for Green Power to Beijing. Our 1GW Wind Power, Solar Power, Thermal Power, Energy Storage and Hydrogen Energy Demonstration Project at Chagan Nur Power Station completed China's first-ever cross-provincial ultra-high voltage (“UHV”) “point-to-point” green power transaction, significantly boosting Beijing's green energy consumption capacity. As a leading gas-fired thermal power provider in Beijing, we operate seven plants with a combined installed capacity over 4.7 GW, generating approximately

47% of the annual electricity produced by gas-fired power plants in Beijing, providing over 43% of the city's centralized heating capacity. Annually, we reduce coal by approximately 6.1 million tons, CO₂ by 9 million tons, nitrogen oxides by 2,600 tons, and dust by 700 tons, contributed great strength to Beijing's green energy transition.

Embracing a people-centric approach to foster shared growth. This year, with people as our priority, Jingneng Clean Energy deepened the reform of “three systems”. We implemented tenure-based contractual management, enhanced performance evaluation for all employees, and created clear “dual career channels” (position-based and rank-based). Over 40% of our new leadership positions were filled through competitive selection processes. We also introduced equity incentives for key talent and improved our talent selection and appointment mechanism. These initiatives have effectively boosted employees' enthusiasm, creativity, participation, and sense of belonging. Externally, we firmly keep our SOE mission and responsibility in mind. Many of our new energy projects are located in economically disadvantaged and remote regions. In addition to improving local infrastructure, these projects have created numerous jobs for surrounding communities. We also actively serve the national rural revitalization strategy with targeted support initiatives, thus contributing to local economic development and fulfilling our corporate social responsibility.

Amid challenges on the long journey, we must work harder for heavy responsibilities. Embarking on this new journey in the new era, Jingneng Clean Energy align with the policy directives of the 20th CPC National Congress. Committed to the key task of “high-quality development” and “high-standard security” and strategic guideline of “pursuing fast and quality progress amid stability”, we will embrace our role as a guarantor of green energy, a trailblazer for technological innovation, and a pioneer in the low-carbon transition. We will fulfill social responsibility at high standards across full process of operations and management. We will resolutely ensure a safe clean energy supply for Beijing, focusing on clean energy core business to support environmental protection. Through exceptional governance, we will create brand value. Adhering to the spirit of putting people first, works internally and externally, creates shared well-being for people's well-being. Dedicated to advancing new successes and reach new heights in sustainable development, we will embed green value principles into every facet of development. We aim to become a “smarter, lower-carbon, more flexible, and more resilient” world first-class clean energy service provider in Beijing, contributing to high-quality energy development of China's energy industry and the construction of new energy system!

Party secretary, chairman of the Board
Chen Dayu

ABOUT JINGNENG CLEAN ENERGY

Established in August 2010, Beijing Jingneng Clean Energy Co., Limited was listed on the Main Board of the Hong Kong Stock Exchange on December 22, 2011. The Company is a holding subsidiary and the primary investment operation platform for clean energy projects of Beijing Energy Group Co., Ltd.

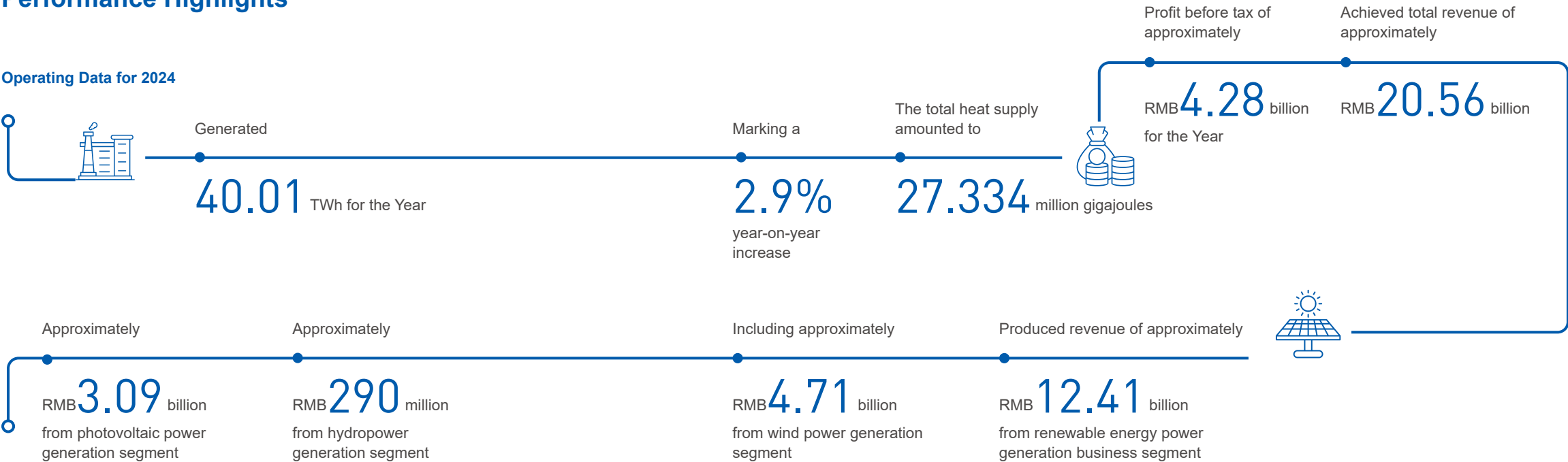
The Company operates and manages over 150 subsidiaries and associates, with nine branches in Beijing, Southwest China, Inner Mongolia, Northwest China, South China, Northeast, Shanxi, Central China and Xinjiang. Our core business spans 26 provinces, municipalities, and autonomous regions including Beijing, Inner Mongolia, Ningxia, Sichuan, Hunan, and Guangdong. Our operations encompass wind power generation, photovoltaic power generation, gas-fired power generation and heating, small and medium-sized hydropower generation, and power generation from other clean energy sources, positioning us as China's leading wind and photovoltaic power generator and Beijing's largest gas-fired thermal power supplier.

By the end of 2024, the Company's operating installed capacity¹ reached 17.437 GW, with 12.662 GW from non-fossil energy sources, representing approximately 73%. The installed capacity of wind power accounted for 6.858 GW, concentrated in wind-rich areas of Inner Mongolia, Shaanxi-Gansu-Ningxia region, and the Beijing-Tianjin-Hebei region. The installed capacity of photovoltaic power contributed 5.268 GW, primarily in solar-rich areas of Northwest China, North China, and South China. The installed capacity of the seven gas-fired cogeneration plants in Beijing and one in Yichang of Hubei Province amounted 4.775 GW, generating approximately 47% of the annual electricity produced by gas-fired power plants in Beijing, and supplying over 43% of the city's centralized heating capacity, . The installed capacity of small and medium-sized hydropower installations in water-rich Southwest China amounted to 310 MW. The installed capacity of the independent shared energy storage mainly located in Guangxi and Ningxia amounted to 226 MW.

Grounded in a modern energy system characterized by cleanliness, low carbon, safety, and efficiency, Jingneng Clean Energy has been driven by advanced innovations in energy technology. With national priorities in mind, the Company upholds the spirit of national excellence, commits to creating high-quality projects, serves the strategic development of the capital, and strives to become a “smarter, lower-carbon, more flexible, and more resilient” world-class clean energy service provider based in Beijing.

Performance Highlights

Operating Data for 2024



¹ Only on-grid installations are included in the Report, excluding projects under construction.

Awards and Honors



Company Honors



ESG Recognition



LEADING CLEAN ENERGY FORWARD WITH SUSTAINABILITY PHILOSOPHY

In recent years, the global energy sector has experienced significant transformations. Driven by national “dual-carbon” goals, China’s clean energy industry has seen continuously rapid growth, accelerated technological innovation, faster market-oriented reform, and deeper international cooperation. Nonetheless, the industry grapples with uncertainties, including mounting pressures on energy consumption, heightened competition in project development, and policy adjustments.

As a Beijing-based clean energy service provider listed in Hong Kong, Jingneng Clean Energy has engaged in ESG management and information disclosure for eight years in a row. Guided by ESG principles, we realize that corporate sustainability extends beyond merely fulfilling ESG responsibilities. ESG should be embedded as an advanced management experience throughout whole process of the internal production and operations of the enterprise, dynamically reshaping corporate value from a development perspective.

In 2024, leveraging our unique position as a state-controlled listed company, we reassessed our management and development status through a fresh ESG lens. By benchmarking against industry leaders, we identified key improvement directions and deepened reforms by innovative means, driving high-quality SOE development in this new era with a sustainability philosophy.



Digital Intelligence-driven Industry Management

Digital intelligence-driven industry management was a highlight feature of our ESG work in 2024. We actively identified new application scenarios of technological innovation in the power industry. By reengineering our management processes digitally, we established a digital production, operation, and management system, and gradually transformed our traditional O&M platform and software system, in turn fostering management model innovation. These efforts have markedly enhanced management and production efficiency and ensured a secure energy supply, empowering high-quality internal management with new core competencies. Moving ahead, we will intensify our comprehensive application of diverse digital intelligence technologies, harnessing innovation to drive quality enhancements, develop new quality productive forces and core competencies, promote both innovative and high-quality development.



Enhanced Risk Prevention and Control

Another ESG highlight feature in 2024 of Jingneng Clean Energy was enhancing risk prevention and control. Capital markets and investors increasingly emphasize corporate risk management capabilities and behaviors. In response, Jingneng Clean Energy have developed a comprehensive internal control and risk management system based on management requirements for state-controlled listed companies. We are incorporating ESG risk perspectives comprehensively to better identify and prevent potential operational and management risks across 17 categories, including corporate governance, investment and construction, compliance, safety and environmental protection, financial and tax, procurement and ESG risks. Moving forward, we will strengthen our comprehensive risk management system from an ESG perspective, requiring relevant departments and affiliates to take appropriate risk prevention measures to safeguard the bottom line of risk management for escorting high-quality development.



Governance Responsibility

Governance responsibility, one of Jingneng Clean Energy’s three ESG focus areas in 2024, is presented in the section “Digging Deeper to Build a Solid Governance Foundation”. Excellent governance drives high-quality and sustainable corporate development, forms the cornerstone of enterprises’ operational and production practices, and serves as a strategic asset for future success. For Jingneng Clean Energy, the core of governance responsibility centers on consistent, standardized internal management through a vertical-to-the-end and horizontal-to-the-horizon governance system, responding to changing internal and external complexities with stable corporate governance. Going forward, we will continue to leverage the advantages of the system and mechanism of our SOE to optimize policies according to evolving sustainability requirements and trends, while identifying and assigning targeted improvement initiatives to responsible departments, ensuring corporate governance continues to lead the industry and support high-quality corporate development.



Environmental Responsibility

Environmental responsibility, another focus area in Jingneng Clean Energy’s 2024 ESG work, is presented in the section “Moving Toward Green to Create a Better Ecology”. The CPC Central Committee and the State Council have called for expediting the creation of a new energy system characterized by cleanliness, low carbon, safety and efficiency. For Jingneng Clean Energy, the core of our environmental responsibility lies in providing the society with safe, stable, reliable clean energy consistently, strongly supporting China’s climate change response and “dual-carbon” goals, and operating each plant and station in an eco-friendly manner to minimize negative ecological impact resulted by our activities. Looking ahead, committed to our primary responsibilities and core business, we will vigorously expand renewable energy sources while maintaining eco-friendly operations across all sites.



Social Responsibility

Social responsibility, Jingneng Clean Energy’ third ESG focus area in 2024, is presented in the section “Putting People First to Safeguard People’s Wellbeing”. Corporate social responsibility is vital for both enterprise long-term business operations and sustainable social prosperity. Social sustainability centers on people, spanning multiple dimensions including employees, partners, supply chains, and communities. For Jingneng Clean Energy, our social responsibility focus on the people-oriented spirit and always centers on the principal of “people-oriented”. Going forward, we will continue to uphold a highly responsible attitude toward employees, partners, suppliers, and the public by updating key objectives and action plans for the next phase, increasing investment in talent selection and training, exchanges and cooperation, supply chain management, and social responsibility activities, as well as strengthening our corporate image and help contribute to a sustainable and prosperous society.

ESG Performance Highlights

Governance Data

 Maintained a board of directors (the “Board” or “Board of Directors”) consisting of **10** members including **4** independent directors **40%**

 Held **4** shareholders’ meetings **10** board meetings

 Conducted **47** compliance training sessions with **2,127** participant attendances **67** legal training sessions with **2,327** participant attendance

 Organized **123** anti-corruption training sessions with **4,275** participant attendance

 Provided **3** sustainability training sessions including **1** at the Board level

Environmental Data

Ensured all emissions met compliance requirements for the Year

 Generated **21.05** TWh of electricity from renewable energy sources for the Year equivalent to reducing CO₂ emissions by **1,752.4** tons²

 Invested **RMB20.379** million in environmental protection for the Year

Environmental Data

 Conducted **135** training sessions on environmental protection for the Year

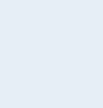
 Organized **98** environmental emergency **Drills covering all outsourced entities³**

Social Data

 Invested **RMB212.468** million for the Year in safety production **Provided comprehensive coverage of safety training and emergency drills, including outsourced entities**

 Achieved **100%** coverage in occupational health checks for employees for the Year

 Invested **RMB880** million in technological innovation for the Year with a **3.6%** R&D intensity obtained **9** high-tech enterprise certifications

 initiated **63** technology projects secured **19** invention patents **76** utility model patents **34** software copyrights

 Cooperated with **1,362** suppliers with quality, occupational health, environmental, or energy management system certifications signed transparent bidding procurement agreement with **1,120** suppliers

 Contributed **RMB11.59** million to public welfare for the Year including **RMB4.15** million for rural revitalization

² This conversion uses the “National Fossil Energy Electricity CO₂ Emission Factor” of 0.8325kgCO₂/KWh from the “Announcement on the Release of the 2022 Electricity CO₂ Emission Factor” issued by the Ministry of Ecology and Environment and the National Bureau of Statistics.

³ The Company outsourced certain non-core tasks.

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FEATURE 1

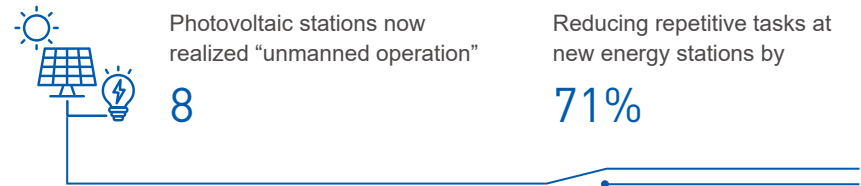
DIGITAL AND INTELLIGENT MANAGEMENT

Guided by the “Green, Innovative, Digital Jingneng” vision, Jingneng Clean Energy actively explores innovation in management tools through digital and intelligent approaches to boost production efficiency, enhance enterprises’ operational management capabilities, and establish an efficient intelligent O&M model for clean energy companies.

To realize this vision, Jingneng Clean Energy has designed and implemented a smart supervision center, serving as a hub for big data, intelligent diagnostic analysis, and technical support. Vertically, we have put in place a three-tiered management structure of “Smart Supervision Center-Centralized Control Operation Center/Gas-fired Power Plant-Station”.

Horizontally, data across multiple domains including production, safety, human resources, and finance has been integrated, eliminating “information silos” between business areas. Building on this foundation with big data and hyper-converged server clusters, the Company is transitioning to production management characterized by “unmanned shifts, minimal staffing, centralized monitoring, and smart O&M”. Looking ahead, this smart supervision center will further incorporate artificial intelligence (AI), gradually implementing advanced AI models for clean energy and new energy power generation.

In 2024, Jingneng Clean Energy formulated the *Digital Transformation Plan* to redesign management processes with digital intelligence, while coordinating management model innovation and production efficiency upgrades. By the end of 2024, Beijing’s smart supervision center had successfully integrated with smart control systems of 13 centralized control centers, 2 green electricity centers, and 8 gas power plants, enabling oversight of all renewable energy power stations. Eight photovoltaic stations now realized “unmanned operation”, reducing repetitive tasks at new energy stations by 71%, which significantly reduces operational costs, boosted operational efficiency, and improved employee working environment.



Practising digital transformation to build smart power plants

In response to the rising digitalization trend, we have positioned “smarter” as one of our main strategic objectives in the future. Utilizing cutting-edge technologies like digital twins, smart centralized control platforms, drones, and robotics, we have achieved smart power plant management.

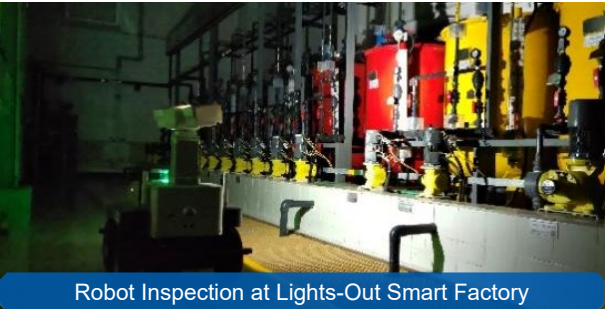
Beijing Smart Supervision Center

Technologies like digital twins, industrial big data, edge computing, data governance, AI, industrial IoT, and network security are employed by the Beijing Smart Supervision Center built by Jingneng Clean Energy. Through the deployment of private cloud, the center enables data collection, storage, processing, and application, achieving real-time, dynamic monitoring of all subsidiary power stations.



Lights-Out Smart Factory

Lights-Out Smart Factory Jingyang Power is at the forefront of advancing smart power plants, having executed 5G IoT, 5G robotics, and smart tube well projects. Leveraging innovative technologies such as IoT data collection, 5G smart image recognition, big data analytics, and cloud computing, Jingyang Power gets full monitoring data promptly. While reducing a large number of manual inspections to improve operational efficiency, this approach detects safety hazards information like excessive toxic, harmful gas levels and abnormal water levels, markedly boosting safety risk prevention and systematically advancing the development of “Lights-Out Smart Factory”.



Application of Digital Twin Technology

We employ digital twin technology for panoramic digital monitoring of wind power, photovoltaic power, energy storage, booster stations, overhead transmission lines, and collector lines in the new energy field. This technology provides all-round visual surveillance across our new energy fields.



Ensure the Safety of Unmanned Operation

To safeguard our unmanned sites, we utilize our smart supervision system’s digital management feature, involving AI-powered cameras with facial recognition, two-way intercom, vigilance and evacuation alerts, and personnel tracking. With intelligent safety helmet monitoring technology, we have boosted oversight of high-risk operations and critical switching tasks, ensuring monitoring of on-site conditions and the bottom line of safety.

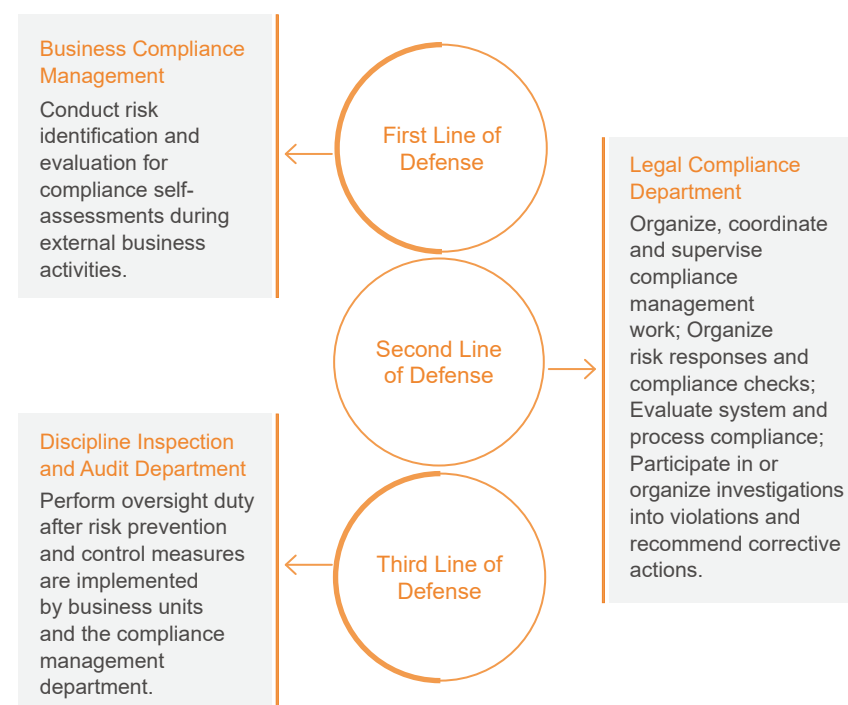


FEATURE 2 ENHANCED RISK PREVENTION AND CONTROL

Risk prevention and control form the cornerstone of a company's survival. Capital markets and investors now look beyond traditional financial risks, increasingly scrutinizing non-financial risk factors and sustainability performance of enterprises. In response, we are enhancing our capabilities to identify and mitigate ESG risk factors, incorporating these risks into our comprehensive risk management framework, protecting our operational baseline and strictly preventing safety incidents that could impact our operations or market valuation.

Risk management lies at the heart of our operations. Jingneng Clean Energy has formulated systems such as the *Comprehensive Risk Management Measures* and established a three lines of defense risk management system. Our Board of Directors and its audit committee serve as the highest authority overseeing internal control and risk management. Under the management's direct guidance, the legal compliance department of the Company organizes and carries out annual risk assessments and report preparation detailing annual risk assessment results as well as management and coping measures for significant risks. When significant risks or hazards emerge, the legal compliance department promptly makes special reports and activates emergency disposal plans.

Three Lines of Defense in Risk Management



We identify risks comprehensively across both operational and business levels. Our comprehensive risk management strategy enables effective risk identification, forming a risk list. A risk warning system has been built upon four principles: relevance, sensitivity, feasibility, and measurability for risk evaluation and ranking. Risks are categorized into major, critical, and general, with customized management approaches for each tier.

In 2024, we reassessed and refined our risk management system through an ESG lens. Both the internal control system and risk governance structure were revised to align with the latest national laws, regulations, and standards. Potential risks during operational and production processes were identified and analyzed from 17 dimensions. By incorporating ESG risks, assigning risk management categories to appropriate departments, and integrating and updating the requirements of departments and affiliates for risk indicators routinely tracked and monitored, we have broadened and deepened our risk management across the board.

Based on this year's updates on risk identification and analysis, we refined and published a suite of risk and compliance management policies of Jingneng Clean Energy, including the *Internal Control Management Manual*, the *Internal Control Self-Assessment Manual*, the *Authority Guidelines*, the *Procurement Compliance Management Guidelines*, the *Project Acquisition Compliance Management Guidelines*, the *Commercial Anti-Bribery Compliance Management Guidelines*, and the *Corporate Governance Compliance Management Guidelines*. We also strengthened legal reviews on all major decisions and implemented co-governance across patrols, disciplinary oversight, audits, and operations, further enhancing our precise risk prevention and control capabilities. This year, three major risks were identified: policy and regulation risk, investment project demonstration and decision-making risk, and construction preparation risk. We tailored coping plans for these risks, significantly boosting our risk control capabilities.

Jingneng Clean Energy's 17 Risk and Compliance Management Categories



In particular, for climate risk management in 2024, some selected affiliates began using the TCFD framework to identify and analyze potential climate risks in their regions. By analyzing historical data and future extreme weather projections, we identified high-probability local threats including typhoons, floods, droughts, and severe cold. We then refined specialized emergency response plans, conducted emergency drills, and promptly replenished emergency supplies to effectively prevent and control extreme weather impacts.

FEATURE 2
ENHANCED RISK
PREVENTION AND CONTROL



Addressing climate change – Taking preventive measures against Typhoon Yagi

In September 2024, our South China Branch took preventive measures and preparation for flood control and typhoon defense against Typhoon Yagi (No. 11) to maintain a stable power supply under the typhoon weather. Their swift response protected both personnel and equipment, showing strong capability in managing acute climate risks.

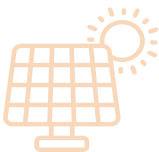
Zhanjiang Centralized Control Center

responded to the typhoon warning by organizing a typhoon defense meeting. It maintained constant monitoring of high-risk areas via video surveillance systems to always stay alert. This vigilance enabled prompt detection and handling of irregularities, ensuring the safety and stability of both personnel and equipment during the typhoon period.



Xuwen Photovoltaic Power Station

immediately held a typhoon deployment meeting to analyze the approach to prevention against typhoons and floods and assign clear responsibilities. Their staff replenished emergency protective supplies, activated pumps in flood-prone areas, inspected flood embankments in the photovoltaic zone, and reinforced both internal and external infrastructure.



Dingrui Photovoltaic Power Station

conducted thorough embankment inspections across the zone. By recovering and reinforcing fire extinguishers and maintenance vessels in the booster stations and photovoltaic zone, temporarily removing vulnerable components like transformer fences and lighting fixtures, and performing comprehensive drainage system checks, the power station ensured that all potential issues were identified and addressed promptly, strengthening defense against the typhoon.



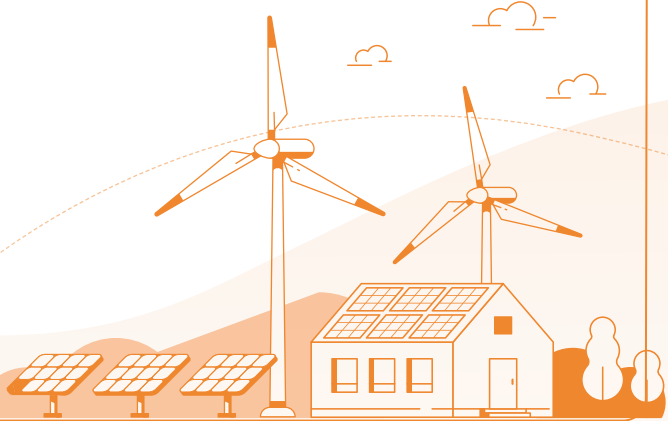
Preparation against Typhoon Yagi at Centralized Control Operation Center



Inspection against Typhoon Yagi at Xuwen Photovoltaic Power Station



Inspection against Typhoon Yagi at Xuwen Photovoltaic Power Station



01

DIGGING DEEPER TO BUILD A SOLID GOVERNANCE FOUNDATION

Governance forms the cornerstone of our corporate operations. Guided by Party building leadership and implementing principles from the Third Plenary Session of the 20th CPC Central Committee, we continuously refine our governance structure. The Board supervises ESG work while we integrate ESG goals and metrics into internal management processes and enhance our ESG system. We maintain active stakeholder communication and ensure governance complies with all laws and regulations. Through strengthened internal controls and compliance management, we offer solid corporate value through governance excellence.

- Anti-corruption and Business Ethics
- Corporate Governance
- Operational Compliance and Risk Management
- Innovative R&D and Intellectual Property Rights (IPR) Protection

UN SDGs focused in this section:



Party Building Leadership

Jingneng Clean Energy maintains strong leadership under the Communist Party of China (CPC). We adhere to the Party’s general requirements in the new era and resolutely implement the Party Central Committee’s decisions and plans. By fostering synergy in Party building leadership, integrating Party building with business, and conducting preliminary research on major issues at Party Committee meetings, we drive high-quality corporate development through effective Party building. This year, 43 Party Committee meetings were convened to deliberate on 539 proposals, effectively playing the Party Committee’s role as the leadership core and political core in setting the right direction, keeping in mind the big picture, and ensuring the implementation of decisions.



This year,
43 Party Committee
meetings were convened

Deepening Theoretical Study

Guided by principles from the Third Plenary Session of the 20th CPC Central Committee, we organize publicity and study to continuously strengthen theoretical understanding and reinforce ideological and political foundations. Through collective study and training, specialized guidance lectures, thematic reading groups, and knowledge assessments, combined with organizational life activities such as “Three Meetings and One Lecture”, Thematic Party Day, and Party classes, we encourage Party members and cadres to thoroughly study, internalize, and implement principles from the Third Plenary Session of the 20th CPC Central Committee. We focus on priority topics and deliver Party discipline education to enhance Party members’ literacy. By playing the leading group’s “key few” role and earnestly implementing the “First Topic” system, this year, we organized 15 collective study sessions and 31 “First Topic” study sessions at the Theoretical Center Group.

to deliberate on
539 proposals

This year, we organized
15 collective study sessions

Reinforcing Institutional Development

Reinforcing institutional development is crucial for advancing Party building and improving organizational quality. This year, we refined our Party organization structure and operational mechanism and built a comprehensive organizational institutional framework. We also developed internal Party regulations such as the *Implementing Measures for Standardizing Party Organizational Life* and the *Implementing Measures for the Decision-making System for Important Matters*. These measures ensure Party leadership through decision-making, implementation, and supervision processes. Additionally, we established a mechanism of communication and coordination between Party organizations and the management of the Company and improved the Party leadership system characterized by operational oversight and cross-departmental coordination, aligning our strategic objectives politically with Party organizations effectively executing them in practical operations.

Vanguard Program for Party Members

Aligned with the requirements in the Vanguard Program for Party Members, we have developed “5+2+N” measures under the guideline of “enhancing literacy, striving to be vanguards, fulfilling roles, and promoting development”. This year, we strengthened Party member development through collective training rotations, discipline and legal knowledge exams, and knowledge competitions, achieving a 100% commitment letter signing rate. These initiatives have built a vanguard Party member team that exemplifies contributions, new achievements, and high standards in our pursuit of quality development.



Achieving a
100% commitment letter
signing rate

Corporate Governance

To develop a comprehensive structure and a sound, effective operating mechanism for corporate governance, Jingneng Clean Energy adopts the operational mechanism for the decision-making system of important matters, appointment and removal of employees on key positions, arrangement of important projects and use of large funds. We have established a modern corporate governance structure operating in a coordinated manner and with effective counterbalances.

Our Objective



Achieve full compliance evaluation coverage for all affiliates by 2025

Governance System

The Board deliberates on and makes decisions on major issues affecting business operations, and has established four specialized committees. This year, the Board comprised ten directors, including four independent directors. In strict accordance with the provisions in the *Company Law of the People’s Republic of China* for director tenure and in The Stock Exchange of Hong Kong’s *Listing Rules* for director appointment, we re-elect directors every three years, which is also the average Board tenure.

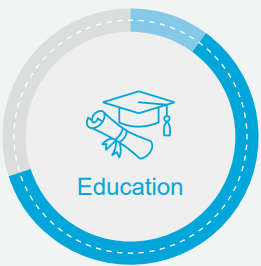
The Board maintains high operational efficiency, with all directors regularly conducting debriefing and self-assessments. This year, ten Board meetings were held, with a 100% attendance rate. All convening, holding, and voting procedures complied with relevant laws, regulations, and regulatory rules, and all voting results were legal and valid, establishing a solid foundation for our standardized operations.

We place a high premium on Board diversity. We have formulated the *Board Diversity Policy*, incorporating multiple considerations such as gender, age, educational background, skills, knowledge, and professional experience to enhance the Board’s business capabilities and embrace diverse values. Six members possess professional industry backgrounds, four specialize in financial audit management and risk management, and three are female directors.

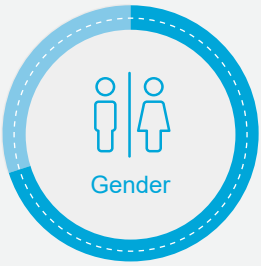
Composition of Board Diversity



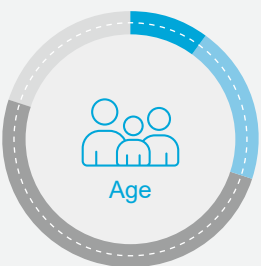
- 4 independent non-executive directors
- 3 executive directors
- 3 non-executive directors



- 1 Doctorate
- 6 Master’s degrees
- 3 Bachelor’s degrees



- 7 males
- 3 females



- 1 aged 30–40
- 2 aged 40–50
- 5 aged 50–60
- 2 aged 60–70

Shareholders’ Meeting

The Company is dedicated to creating an equal and impartial governance environment. By strictly complying with laws and regulations including the *Company Law of the People’s Republic of China*, we ensure equal protection of all shareholders’ legitimate rights and interests, particularly minority shareholders. We have also developed institutional regulations such as the *Rules of Procedure for Shareholders’ Meetings* to regulate the organization and behavior of shareholders’ meetings, ensuring the legal exercise of authority. This year, four shareholders’ meetings were convened.

Investor Relations Management

The Company places great emphasis on investor relations management, striving to provide investors with transparent and open operational information. We have established a dedicated department to handle investor relations and leverage modern information technology for performance roadshows and investor communication meetings. These efforts enable us to deliver timely and accurate financial and non-financial information to investors, thereby enhancing their understanding of and trust in our Company.

In-depth investor communication through self-organized reverse roadshow

On April 28, 2024, as a Hong Kong-listed company, Jingneng Clean Energy organized an investor reverse roadshow in Beijing. This event was designed to deepen engagement with investors. By sharing our future development trajectory and strategy with investors and analysts, we strengthened mutual understanding and trust with capital markets. Then Mr. Zhang Wei, executive director, deputy general manager, and Board Secretary led investors and analysts on a tour of the Taiyangong Gas-fired Thermal Power Plant and the Smart Supervision Center. The roadshow expanded communication avenues and conveyed our corporate value, significantly improving our market recognition.

Communication Session

Exchange Visit Site

ESG Management

Jingneng Clean Energy firmly believes that robust ESG governance drives the company-wide implementation of ESG strategies. In 2024, internally, we ramped up the Board’s supervision and control over ESG work to consolidate ESG responsibilities and tasks; externally, we enhanced stakeholder communication to convey Jingneng Clean Energy’s ESG brand value.

ESG Governance Structure

We have established a three-tier governance structure centered around the Board, ensuring a thorough guarantee for the implementation of ESG work.



Assessment and Evaluation System

According to requirements and plans for carbon peaking, carbon neutrality, energy security and transition, environmental protection, anti-corruption, and compliance operation, the Company has established an ESG indicator system combining short- with long-term objectives and incentives with constraints. This system serves as a key measure for advancing management, performing supervision, compiling reports, and conducting assessments, among others.

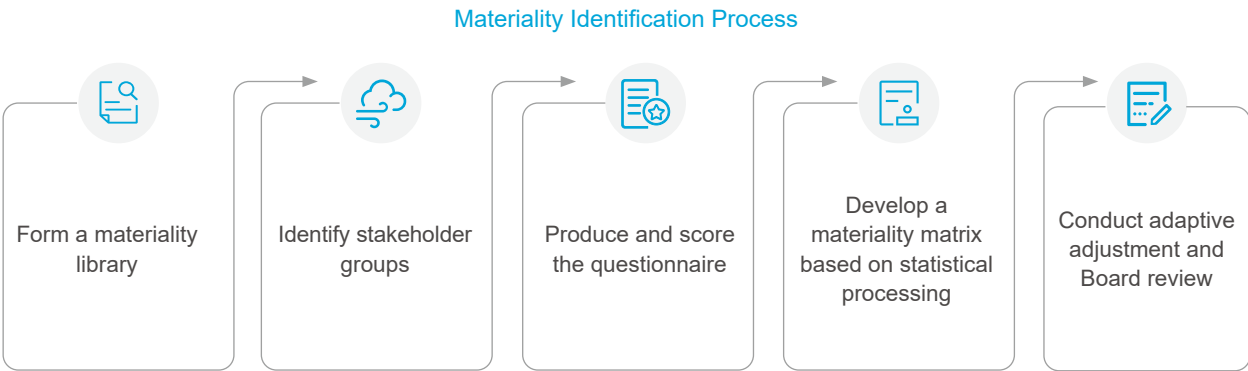
We have established a performance-based reward and punishment mechanism. In the short term, we will recognize exceptional ESG achievements through internal awards. As our ESG management matures, we will progressively integrate assessment results with performance evaluations to enhance our assessment and evaluation management system. Ultimately, we aim to build a mechanism that links ESG performance with the remuneration of senior management and relevant responsible personnel.

Stakeholder Communication

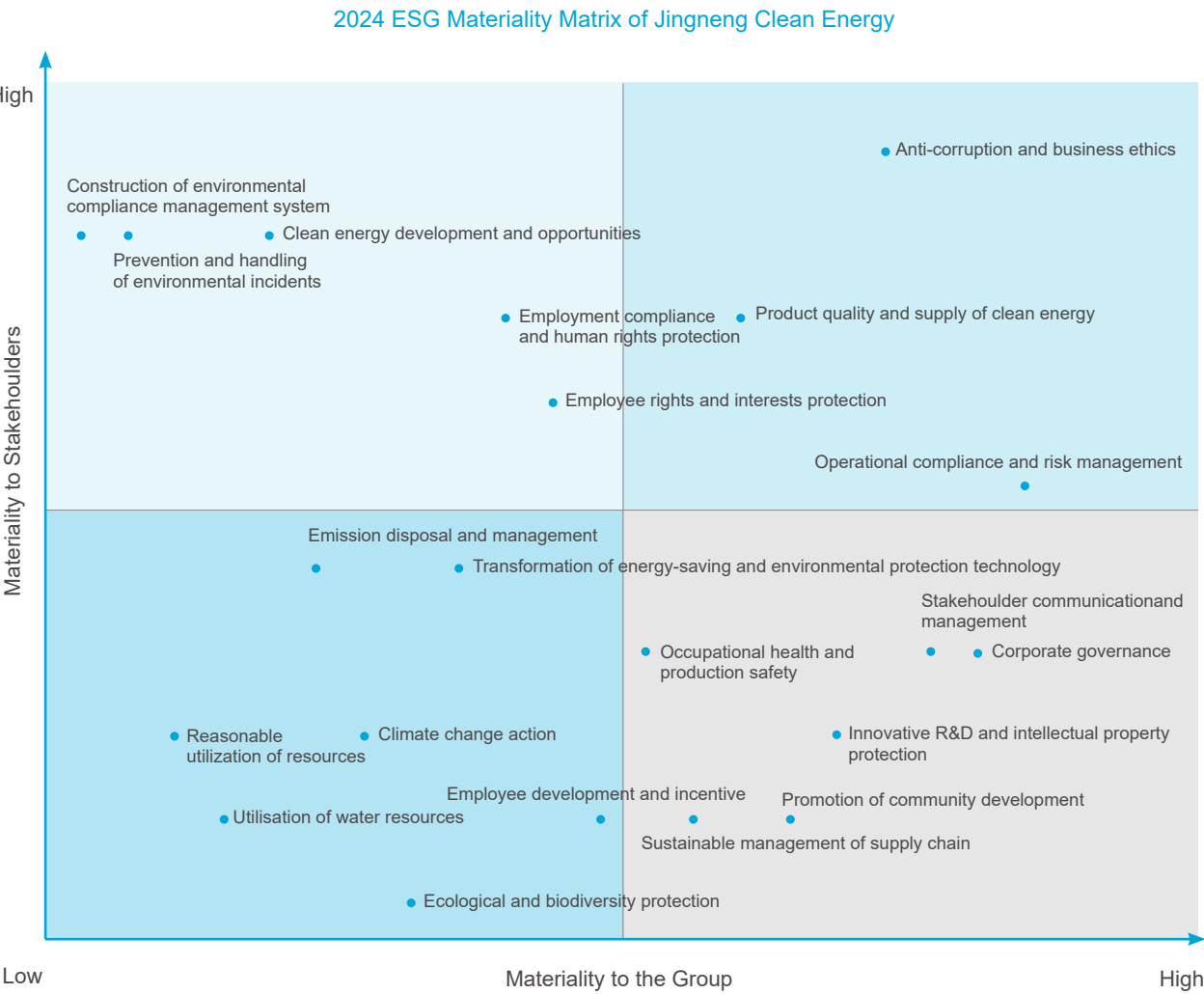
We highly value stakeholder contributions to our sustainability journey. Through regular communication, we clearly identify and address stakeholder needs. This year, we identified seven key stakeholder categories and implemented a regular communication mechanism to ensure responsive engagement with their concerns.

Category of Stakeholder	Main Communication Method	Key Focus
 Directors and the Management	- Board Meeting - Company Meeting - Regular Reporting	- Clean Energy Development and Opportunities - Operational Compliance and Risk Management - Corporate Governance
 Government and Regulators	- Communication Meeting - Regular Reporting - Irregular Inspection	- Compliance Operation - Environmental Incident Prevention and Management - Emission Disposal and Management - Ecological and Environmental Diversity Conservation
 Shareholders and Investors	- Shareholders' Meeting - Roadshow - Information Disclosure	- Corporate Governance - Operational Compliance and Risk Management - Stakeholder Communication and Management
 Partners and Suppliers	- Forums and Other Exchange Conferences - Supplier Review - Due Diligence	- Sustainable Supply Chain Management - Product Quality and Clean Energy Supply - Anti-Corruption and Business Ethics
 Employees	- Employees' Congress - Employee Satisfaction Survey - Employee Mailbox	- Employment Compliance and Human Rights Protection - Employee Rights and Protection - Employee Development and Incentives - Occupational Health and Work Safety
 Community and the Public	- Contract Information Disclosure - Public Communication - Rural Revitalization	- Product Quality and Clean Energy Supply - Community Development Promotion - Stakeholder Communication and Management
 Non-Governmental Organizations (NGOs)	- Roadshow - Targeted Communication - Forums and Other Exchange Conferences	- Rational Resource Utilization - Water Resource Utilization - Climate Change Response - Energy Saving and Environmental Technology Transformation - Community Development Promotion

Following the “Materiality” principle outlined in Appendix C2 *ESG Reporting Guide* of the *Listing Rules*, we conduct annual ESG materiality assessments. We update our materiality library according to macroeconomic trends, industry developments, and sustainability directions and requirements. This work is fully integrated into our ESG risk management framework to identify how highly material issues impact our ESG work.



This year, we identified and updated 21 material issues across three dimensions: 9 for environmental, 8 for social, and 4 for governance issues. We engaged both internal and external stakeholders to score on each issue from “Importance to corporate development” and “Importance to personal growth”. Considering both impact by our development on environment and how resources and society impact our development, we collected 254 valid questionnaires. Following adjustments based on statistical analysis and expert opinions, we finalized this year’s materiality matrix, which reviewed by the Board.



ESG best practice sharing with industry stakeholders

On December 16, 2024, the China ESG Conference themed “ESG and New Quality Productive Forces” was held in the Beijing Economic-Technological Development Area. Mr. Chen Dayu, Jingneng Clean Energy’s Party Committee Secretary and Chairman, was invited to attend and give a keynote speech to regulatory representatives, industry partners, investors, and other stakeholders. He presented the Company’s ESG journey, highlighting our initiatives across energy security, green transition, economic development and increase, and high-quality development. Mr. Chen also expressed the Company’s commitment to creating an ESG ecosystem in Beijing with all parties.

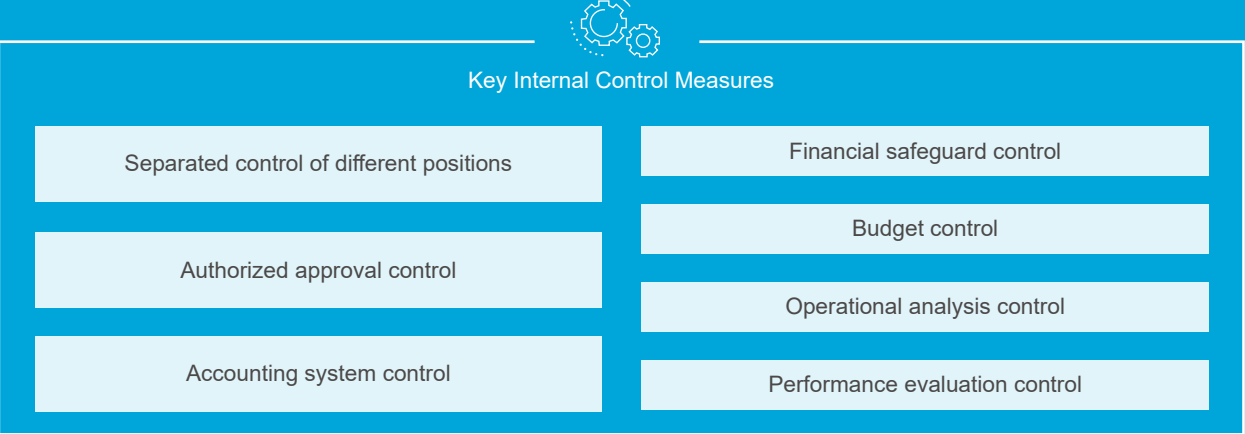


Internal Control and Compliance Management

The Company keeps refining its internal control and compliance management framework. With internal control as the foundation, compliance management as the baseline, and legal management as the supplement, we create a positive cycle that drives high-quality corporate development.

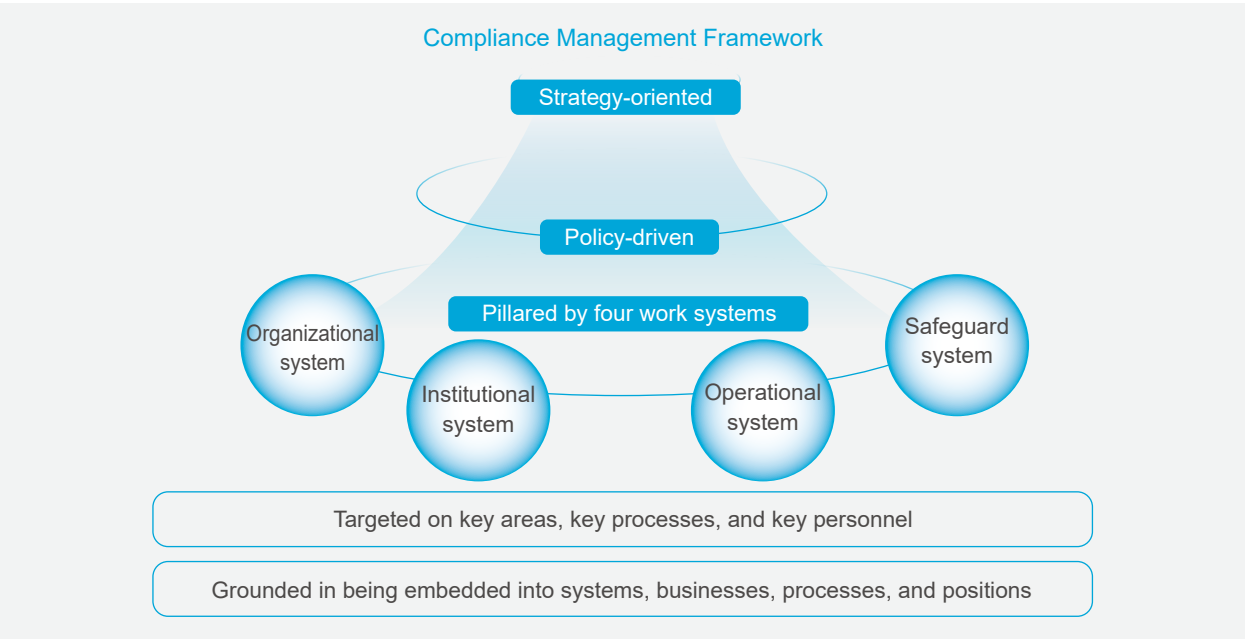
Internal Control System

With internal control as the foundation, the Company has developed a three-tiered authorization and control system founded on the principles of “tiered responsibility, rational centralization, systematic classification, regulated authorization, and appropriate authority”. To support internal control objectives, we have formulated and issued a series of standardized policies, including the *Internal Control Management Manual*, the *Three-Tiered Authorization and Control Manual*, and the *Internal Control Management Measures*. They clearly define our organizational structure, institutional framework, risk assessment processes, internal control measures, division of powers and responsibilities, and self-evaluation guidelines, further reinforcing our internal control achievements.



Compliance Operation

With compliance management as the baseline, the Company has developed an organizational structure for compliance management, forming a three-tiered institutional framework covering basic systems, specialized systems, and compliance guidelines for compliance management. We have established ten operational and safeguard mechanisms, including joint meetings and compliance risk reporting and response. These efforts ensure that compliance principles are deeply embedded throughout our operations processes and extend to all levels of subsidiaries.



The Company has implemented compliance reviews for management processes through an information system. Compliance reviews for major decisions, major project operations, rules and regulations, and contracts are performed online via our information system⁴.



Based on our *Compliance Evaluation and Assessment Management Measures*, we have developed the *Compliance Management Effectiveness Evaluation Work Plan* to assess compliance management effectiveness. This year, we conducted evaluations on six subsidiaries, achieving a coverage rate of 30%. We plan to complete evaluations on all the remaining subsidiaries in 2025 to achieve full two-year coverage of effectiveness evaluations on the compliance management framework.

⁴ Excluding matters involving company confidentiality that are unsuitable for online review.

Business Ethics

Good business ethics are fundamental to earning market trust and a positive brand image. Starting from top-level design, we have refined a suite of policies for business ethics and integrity. We firmly oppose unfair competition and ensure there are regulations to follow in daily work. Through diverse publicity and educational initiatives, we reinforce ethical and integrity awareness across all employee levels, infusing “integrity momentum” into our sustainable, high-quality development.

Integrity Philosophy

The Company maintains zero tolerance for both business ethics violations and corruption. Through the *Anti-Commercial Bribery Compliance Management Guidelines*, we make clear potential bribery and corruption risks, while providing and incorporating preventive measures and behavioral codes into the compliance aspect of employee performance evaluation to effectively prevent commercial bribery. This year, 106 integrity education and training sessions were organized, with 3,665 participant attendance.

We emphasize integrity education by disseminating warning cases via our internal portal “Integrity Window”, social media platforms, and OA systems. We regularly organize visits to the Museum of Family Letter at Renmin University of China and the Red Building of Peking University for integrity education and produce related videos, building a solid ideological foundation against corruption. No corruption litigation cases occurred at the Company this year.



This year,
106 integrity education and training sessions were organized

Whistleblowing and Whistleblower Protection

The Company provides accessible whistleblowing channels, including mailbox, hotline, and email address. Besides, all branches and subsidiaries are required to establish appropriate whistleblowing channels to ensure timely receipt and feedback on reports from both employees and external stakeholders.

Whistleblowing Hotline

+86-10-87407055

Whistleblowing Website⁵

www.12388.gov.cn



⁵ In accordance with the *Supervision Law of the People’s Republic of China*, the *Regulations of Discipline Inspection Organs of the Chinese Communist Party on the Work to Handle Complaints and Petitions*, and the *Rules of the Discipline Inspection and Supervision Organs on the Work to Handle Reports and Complaints*, please visit the website of the National Supervision Commission of the People’s Republic of China for whistleblowing.

We have established a rigorous whistleblower protection system for strict confidentiality of whistleblower identity and prohibited disclosure of either content and their personal information. Our anti-retaliation policy forbids any form of retaliatory behavior, thereby fostering a safe and fair reporting environment that underpins our business ethics development and integrity work.

Audit Management

The Company has developed policies such as the *Internal Audit Rectification Management Measures* and the *Audit Rectification Interview Measures* to standardize internal audit rectification processes and enhance remediation quality. Through the *Management Measures for the Handover of Economic Matters upon Departure of Heads of Clean Energy Subsidiaries*, we clearly delineate the economic responsibilities of departing and incoming leaders to improve our economic responsibility audit system and promote standardized business management. This year, we conducted 226 engineering audits and 16 merger and other special audits, and regularly monitored and urged audit rectification progress, achieving a 96% audit rectification completion rate.



Achieving a
96% audit rectification completion rate

IPR Management

We prioritize IPR protection and utilization. In strict compliance with relevant laws and regulations, we have built a comprehensive and systematic IPR management system. Notably, we were shortlisted among the “National IPR Advantageous Enterprises” published by the National Intellectual Property Administration.



02

MOVING TOWARD GREEN TO CREATE A BETTER ECOLOGY

As a Beijing-based clean energy service provider, we regard supporting society's carbon reduction with an increasing share of renewables as the core mission of our development journey. Mitigating fossil fuel consumption and environmental pressures at the source represents our most significant contribution to "Steady Promotion of Green and Low-Carbon Transformation of Energy Sources" in China. Adhering to the philosophy that "lucid waters and lush mountains are invaluable assets", we have established a comprehensive environmental management system. We identify potential climate change risks and impacts while actively preventing and controlling these risks. We embrace biodiversity principles, minimizing the negative impacts on surrounding environments and ecosystems. We promote rational resource utilization, with emissions from our Beijing gas-fired thermal power plants remaining substantially below national standards. These endeavors have enabled us to achieve a harmonious balance between economic and environmental benefits.

- Clean Energy Development and Opportunities
- Compliance Environmental Management System Development
- Environmental Incident Prevention and Management
- Rational Resource Utilization
- Water Resource Utilization
- Emission Disposal and Management
- Climate Change Response
- Energy Saving and Environmental Technology Transformation
- Ecological and Environmental Diversity Conservation

UN SDGs focused in this section:



Climate Change Response

In recent years, frequent extreme weather events caused by climate change have posed potential risks to global socioeconomic development while threatening corporate business stability and asset security. In response, nations worldwide have made commitments to combat climate change. China has committed “dual carbon” goal, prompting businesses to effectively identify potential climate-related risks and opportunities. The clean energy sector will contribute to the nation’s in-depth low-carbon transition by providing society with clean power.

To align with national “dual-carbon” goals, we have fully integrated climate change into our ESG risk management framework. The Board and its Strategy Committee serve as the highest supervisory body, overseeing the Company’s climate risks and response strategies while regularly reviewing the identification and analysis of climate risks and opportunities to ensure our strategic direction remains precise and appropriate.

At the execution level, the Company requires all subsidiaries to regularly identify and evaluate climate risks in their respective locations, develop tailored climate risk management systems and processes, and conduct regular disaster emergency response drills to mitigate climate change impacts.

The Company has formulated the *Carbon Peak Implementation Plan* in accordance with the “14th Five-Year” Plan and achieved its target of renewable installations exceeding 70% by the end of the “14th Five-Year” Plan period. Through fine management and technological innovation, we have reduced both energy consumption and CO₂ emissions per unit of GDP, fostering a solid foundation for achieving carbon neutrality and peaking carbon emissions. This year, we generated 21.05 TWh of electricity from renewable sources, equivalent to reducing CO₂ emissions by 1,752.4 tons.

Regarding energy-saving and emissions reduction, the Company and all subsidiaries enforce strict regulations on air-conditioning and heating usage in office areas. We have developed the *Company Vehicle Management Measures*, encouraging the transition to new energy-electric vehicles when the budget permits to minimize GHG emissions from our office and mobility activities. This year, several facilities including the Gaoantun Power and the Jingqiao Power upgraded to smart lighting systems by replacing traditional lighting control. Following implementation, each power plant can save approximately 140 MWh of electricity annually, equivalent to reducing CO₂ emissions by 75.1 tons⁶.

Smart practice of energy-saving and efficiency enhancement – Smart lighting renovation at Gaoantun Power

To drive the Company’s vision of becoming “a world-class clean energy service provider based in Beijing”, Gaoantun Power under the Company rolled out a smart lighting renovation project. Leveraging advanced smart technology, this initiative aimed to enhance energy utilization efficiency, thereby forming a smart energy ecosystem.

Focusing on “multi-energy integration” and “smart control”, this project updated the traditional lighting system to a smart one. The new system enables on-off control with clock timers and illumination sensors, remote monitoring and data analysis using IoT technology, and automatic and real-time control through the central supervision center. The renovated smart lighting system has slashed energy consumption by approximately 30% via rational control of illumination duration and intensity, demonstrating significant achievements in green and energy-saving efforts.

⁶ The equivalent emission reduction is calculated using the 2022 national average CO₂ emission factor of 0.5366 kg CO₂/kWh for electricity released by the Ministry of Ecology and Environment and the National Bureau of Statistics on December 26, 2024.

Climate Scenario Analysis

To analyze and assess climate-related risks and opportunities more effectively, while considering current international and domestic contexts, we adopted the Representative Concentration Pathways⁷ (RCPs) 2.6 and 8.5 published by the Intergovernmental Panel on Climate Change (IPCC) for assessing the Company’s potential risks and opportunities.

- ▶ Organizational scope: All primary business segments, including wind power generation, photovoltaic power generation, hydropower generation, natural gas power generation, and standalone energy storage
- ▶ Time range: Short-term (1-3 years), Medium-term (3-5 years), Long-term (5-10 years)

Scenario		Description	Projected temperature increase by 2100
Physical risk assessment and stress test	RCP2.6	A low emissions scenario that represents a substantial cut on GHG emissions in the future, demanding large-scale decarbonization and sustainable endeavors.	Rise by 1.5°C-2°C
	RCP8.5	A high emissions scenario that represents sustained high levels of GHG emissions in the future, leading to a higher global warming trajectory with severe climate impacts.	Rise by >4°C

Risk and Opportunity Management

Climate-related Risks and Responses in a High Emissions Scenario

Risk Category		Risk Name	Risk Description	Response
Physical risks	Acute risks	Typhoons	Increasingly frequent typhoons may affect operational locations in South China	Require all branches, subsidiaries, and power plants to develop emergency response plans with graded incident response conditions and establish internal emergency response teams to address extreme weather events
		Floods	Increasingly frequent floods may affect operational locations across North China, Southwest China, South China, and other regions	
	Chronic risks	Heightened pressure on water resources	The greenhouse effect may cause alterations to global precipitation patterns, leading to increasingly unbalanced water resource distribution	Require all branches and subsidiaries to minimize reliance on freshwater by utilizing municipal reclaimed water or other recycled water and taking water conservation measures
		Rising average temperature	More frequent extreme summer temperatures may affect employee health and safety while increasing combustion risks for flammable materials	Develop the <i>Fire Accident Emergency Plan</i> , install fire extinguishing devices, and conduct regular fire warning drills to strictly ensure operational and personnel safety

⁷ Sourced from the *Intergovernmental Panel on Climate Change Sixth Assessment Report*.



Risk Category	Risk Name	Risk Description	Response
Transition risks	Policy and law	Evolving international geopolitical dynamics may necessitate energy restructuring and indirectly affect new energy development, potentially requiring the Company to adjust its strategy and incur increased operational costs	Keep tabs on policy developments, follow the national direction and strategic deployment for energy transition, and timely adjust corporate strategy to ensure alignment with policy objectives, thereby mitigating uncertainties and risks associated with policy changes
	Market preferences	China's unevenly distributed energy resources lead to variations in market preferences for energy Fluctuations in domestic carbon trading prices may bring financial impacts on the Company	Promptly optimize the Company's energy business structure and layout according to changes, strengthen carbon emissions management, closely monitor carbon market policy evolution, and increase R&D investment in green technology and low-carbon solutions

Climate-related Opportunities and Responses in a High Emissions Scenario

Opportunity Description	Response
More frequent extreme cold and hot weather events increase demand for electricity and heating	Increasingly severe weather events will further heighten global awareness of environmental protection and energy-saving, with an expanding clean energy market as a result. In 2024, China's cumulative newly installed wind and solar power capacity stood at 358 GW, representing 82.6% of the total. The combined wind and solar power installed capacity reached 1.41TW, surpassing coal-fired power generation capacity for the first time ⁸ . The growing demand for clean electricity and heating has brought more opportunities for the Company's future development.

⁸ Relevant data is from authoritative sources such as the National Energy Administration and the China Electricity Council.



Contributing to China's green transition in energy – The first cross-provincial UHV point-to-point green power transaction concluded successfully

In recent years, we have strategically capitalized on clean energy development opportunities. By overcoming difficulties around the “Green Power to Beijing” program, we have integrated several key projects to the grid, including the Integrated Power Source-Network-Load-Storage Demonstration Project in Lingshou County, the Distributed Photovoltaic Project in Administrative Offices of Beijing Municipal Administrative Center, the Distributed Photovoltaic Power Generation Project at Tencent WeStart Industrial Park in Changping District, and the Xiasheng Dongjituo Wind Power Project in Tianjin. Our ongoing projects include the Mentougou and Guanting Pumped Storage facilities and the Chengde Base for Green Power to Beijing. Through the construction of safe, reliable power stations in Beijing, we are contributing to the city's energy transition toward greener alternatives. In 2024, our photovoltaic projects within Beijing reached a capacity of 42.1MW.

Our 1 GW Wind Power, Solar Power, Thermal Power, Energy Storage and Hydrogen Energy Demonstration Project at Chagan Nur Power Station marked China's first cross-provincial UHV “point-to-point” green power transaction and first cross-provincial UHV green power transaction involving a large-scale wind and photovoltaic base in a desert, Gobi, or any arid area. It was also the first purchase of green power from a UHV new energy base in a desert, Gobi, or any arid area by consumers in Beijing and Tianjin. In November 2024, this project successfully completed its inaugural green power transmission, supplying 2.64TWh annually and saving 800,000 tons of standard coal equivalent. While facilitating new energy consumption in Xilin Gol League, this project has further elevated Beijing's capacity to consume green power and the Company's capacity to serve and ensure green energy supplies for this city.



Climate-related Risks and Responses in a Low Emissions Scenario

Risk Category		Risk Name	Risk Description	Response
Physical risks	Acute risks	Cold waves	Extreme low temperatures easily disrupt equipment operations in operational locations across Northwest China, Inner Mongolia, Northeast China, and North China	Require all branches and subsidiaries to develop emergency response plans for meteorological disasters including freezing rain and snow, formulate measures to prevent equipment outages and protect personnel from frostbite, and conduct regular emergency response drills
		Earthquakes or other geological disasters	Earthquakes or other geological disasters are likely to cause foundation and pit deformations, creating safety hazards or property damage	Require all vulnerable branches and subsidiaries to conduct monitoring of geological disasters, clearly delineate earthquake risk zones, and conduct regular drills according to the <i>Emergency Response Plan for Preventing Earthquakes</i>
	Chronic risks	Rising sea levels	Global glacier melting and rising sea levels resulting from the greenhouse effect may impact operational locations in coastal areas	Periodically monitor negative impacts from rising sea levels, near-term impact on the Company was minimal
Transition risks	Policy and law		Improved management policies such as the national measures for the protection of the ecology and environment may affect conditions necessary for new energy development such as land, potentially increasing compliance costs of the Company	Regulate project management to minimize operational impacts on land and the ecology
	Technological progress		Rising prices of some parts brought by energy equipment updates and technological progress may increase investment costs	Stick to technological innovation, build a talent team, and stay abreast of new technologies' impact on the Company
	Reputation		Given increased public and media attention, failure to balance ecological protection and development may generate negative sentiment, harming the Company's brand reputation and market valuation	Prioritize the of protection of land resources, water resources, biodiversity, etc. as key topics and manage the practices

Climate-related Opportunities and Responses in a Low Emissions Scenario

Opportunity Description	Response
Growth in downstream industries rapidly expands market demand for green power	Capitalize on increased demand for new energy driven by downstream market expansion, align with the national energy transition pace, and arrange the development of new energy segments such as wind power, photovoltaic power, hydropower, and energy storage

We actively identify and leverage opportunities presented by climate change. Our participation in carbon emissions markets and issuance of ABS products has continued for several consecutive years. This year, the Company's carbon emissions trading totaled approximately 300,000 tons of CO₂.



Seizing climate opportunities – Carbon Neutral ABS achieves excellence again

In 2024, the Company advanced the third issuance of state-subsidy ABS, with underlying assets once again certified as “carbon neutral” from the exchange. While revitalizing receivable subsidy assets and achieving the goal of controlling the leverage ratio and reducing inventory funds and accounts receivable funds, this move has markedly boosted the brand value of Jingneng Clean Energy for green development, demonstrating our responsible corporate citizenship as a Beijing-based SOE in this new era.

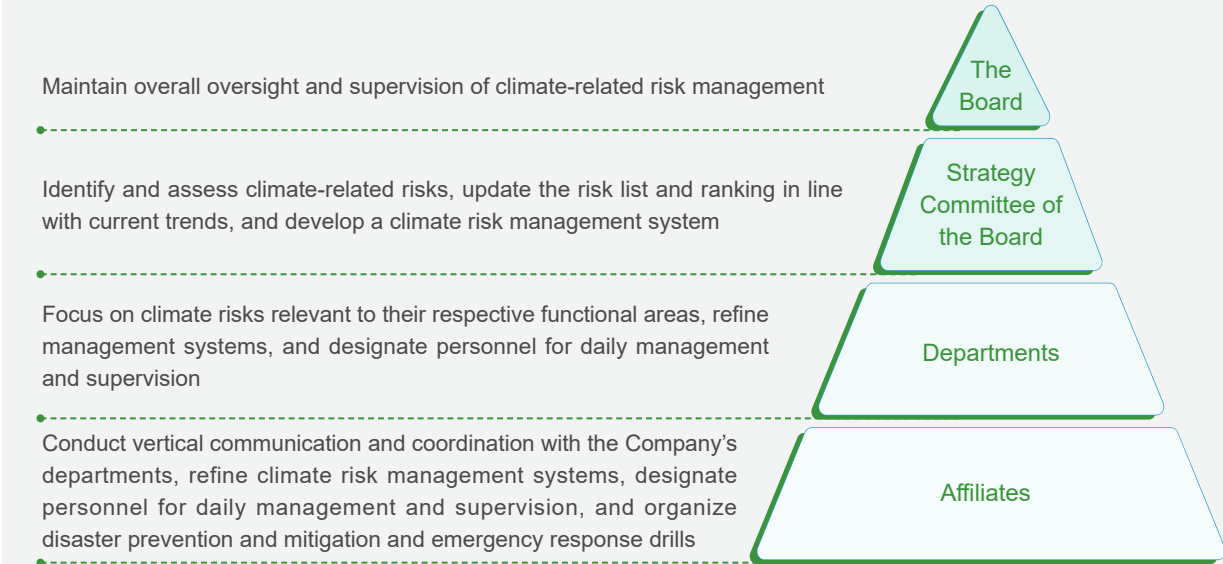


Third Issuance of ABS Products by Jingneng Clean Energy

Climate Risk Management

Jingneng Clean Energy identifies climate risk as a priority under monitoring among physical risks. We have implemented standardized systems and processes for climate risk identification, assessment, and management. Through regular scenario analyses and risk assessments, we clearly define risk management boundaries and develop targeted measures to minimize risks from climate change. We also monitor management status on a regular basis and disclose information transparently to external stakeholders.

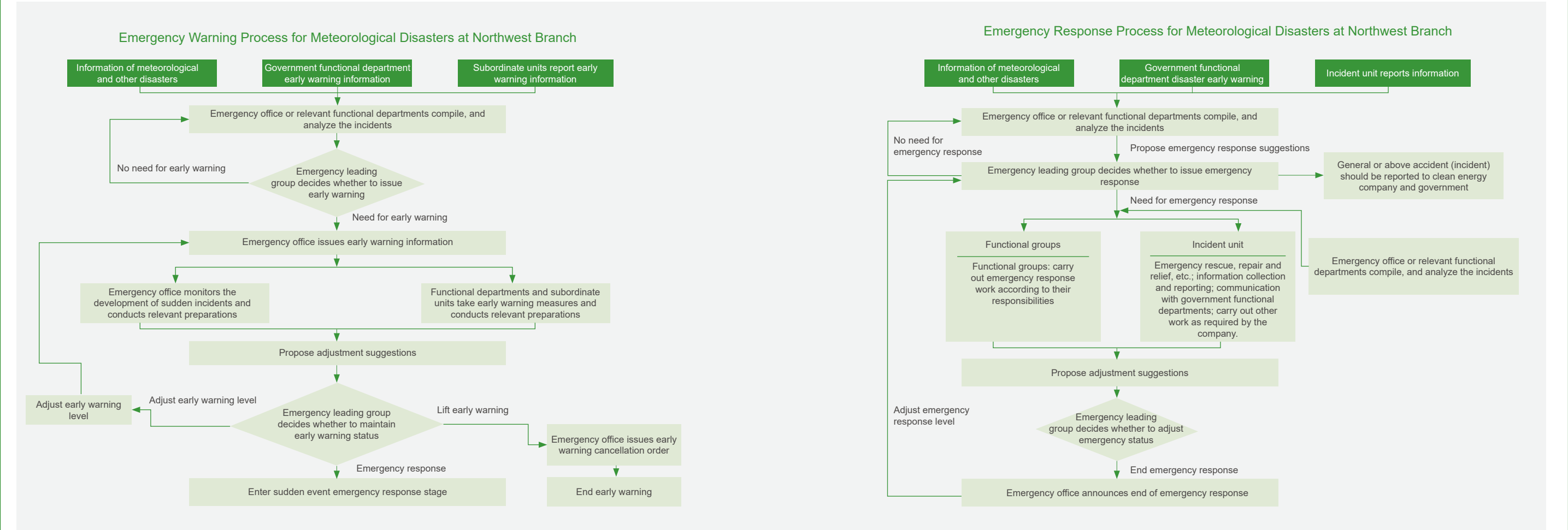
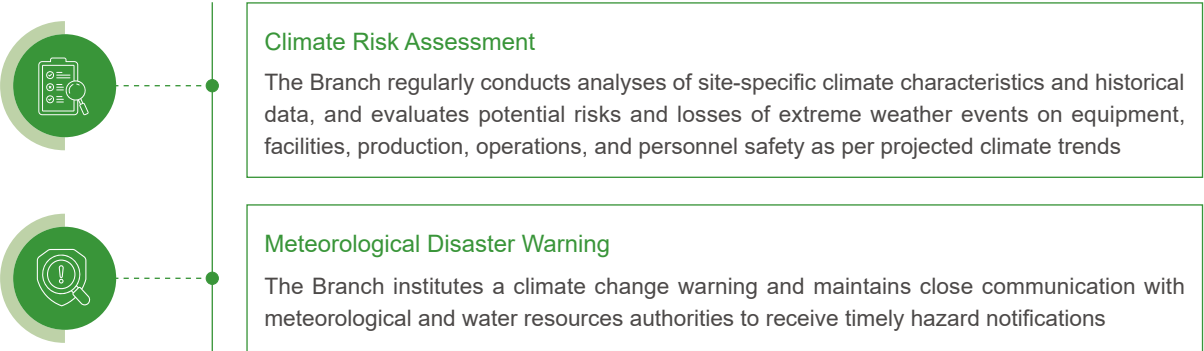
Climate Risk Management Framework of Jingneng Clean Energy



Northwest Branch Company conducts meteorological disaster risk identification

The Northwest Branch operates across Ningxia, Qinghai, Gansu, Xinjiang, and Shaanxi, where climate conditions are complex and variable. The increasing frequency and intensity of extreme weather events, including heavy rainfall, flooding, high temperatures, drought, and frozen, pose potential impacts to the branch's operational activities.

In 2024, the Northwest Branch successfully mitigated climate change risks and ensured both workplace safety and operational stability through risk assessment and early warning mechanisms, emergency response plans and drills, protective measures for equipment and facilities, and personnel training and management policies. As a result, there have been no major equipment damages or personnel casualties from extreme weather events such as heavy rainstorms, floods, heatwaves, droughts, and freezing conditions.



Indicators and Targets

Jingneng Clean Energy aligns with national dual carbon goals and the objectives outlined in the “14th Five-Year Plan”. Guided by a “Green Jingneng” philosophy, we have set our carbon reduction goal in the *Carbon Peak Implementation Plan*: striving to reduce carbon emission intensity per unit of new investment from the level during the “13th Five-Year Plan” period. We maintain stringent monitoring for greenhouse gases, including sulfur hexafluoride (SF6), with specialized equipment installed at relevant facilities that immediately trigger alerts and operational shutdowns when potential leakage trends are detected, effectively preventing gas leakage. This year, no SF6 leakage occurred.



Biodiversity

“A civilization may thrive if its natural surroundings thrive”. Jingneng Clean Energy prioritizes environmental and ecological protection. By developing clean energy power plants in harmony with nature, we strike an ideal balance between a beautiful ecology and high-quality economic development.

We commit to

- Embedding biodiversity conservation philosophy into the design and construction of all power plants
- Avoiding construction or operations within ecological conservation redlines
- Preventing deforestation of natural forests and prioritizing certified sustainable forestry products
- Maximizing restoration and rehabilitation of temporarily affected environments and land during construction to minimize long-term ecological impacts

We aim to

- Conduct biodiversity conservation and ecological assessments for all our projects and be open to environmental impact reviews and public oversight

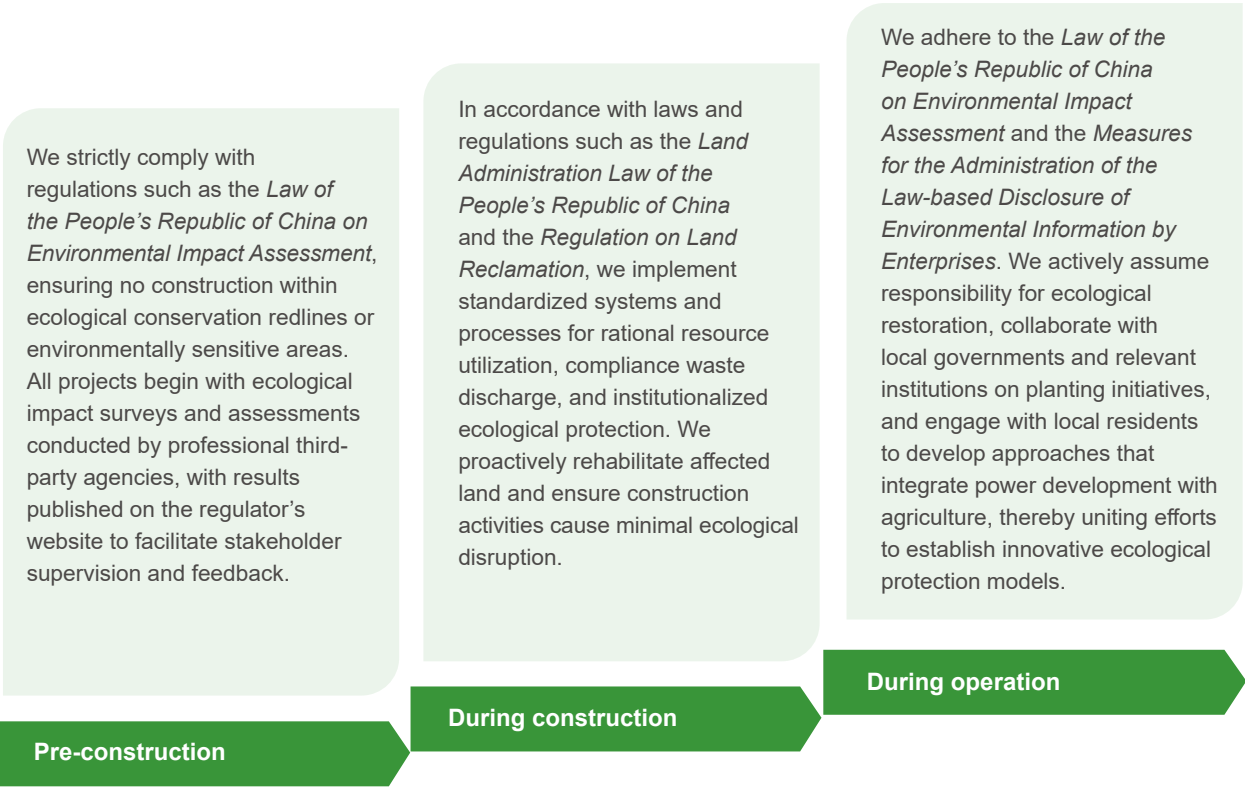
Our power stations span the a wide range of areas, including Xinjiang and Ningxia in the Gobi desert, the meadow plateaus of Inner Mongolia and Gansu, and the water-rich and biologically diverse Sichuan, Yunnan, and Guangxi. This year, we used the TNFD’s LEAP model⁹ to assess the ecosystems in key operational locations, gradually analyzing the relationships, impacts, risks, and opportunities between our operations and the ecological environments.



To mitigate our operational environmental footprint, we have developed policies including the *Technical Supervision Guidelines for Environmental Protection* and implemented a series of safeguard measures throughout project construction and operation:

⁹ TNFD: Taskforce on Nature-related Financial Disclosures; LEAP is an acronym for: Locate, Evaluate, Assess, Prepare.





Practicing Eco-friendly Philosophy

The Company consistently explores innovative approaches to ecological conservation and green development in parallel. Guided by our commitment to corporate responsibility, we leverage opportunities presented by ecological progress. By simultaneously pursuing economic development and environmental stewardship, we have implemented exemplary initiatives including garden-style power plants, integrated wind and photovoltaic power generation with desertification control, and eco-friendly photovoltaic power stations, contributing to China's modern ecological progress. This year, we planted 1,462 trees and established 7,152.4 mu of grassland.



Green Engine safeguarding Beijing's water source — Guanting Wind Farm

Our Guanting Wind Farm is located in the Guanting Reservoir area in northwestern Beijing, an important water source and habitat for many migratory birds in Beijing. During its construction and operation, the wind farm has prioritized water quality protection and ecological conservation. Through a host of innovative moves, Jingneng Clean Energy has harmonized clean energy development with environmental stewardship.

Since the Guanting Reservoir is one of Beijing's main water supply sources, maintaining its water quality is a top priority. The wind farm uses advanced permanent magnet direct-drive wind turbine units, which eliminate the need for lubricating oil, preventing potential water contamination from accidental leaks.

During the planning and construction stages, the wind farm fully considered the ecological impact, ensuring the normal activities of migratory birds by bypassing their key habitats and flight paths. It also features bird monitoring devices that track bird activity in real time, allowing operational tweaks to reduce the impact on these birds.

Managing Ecological Risks

The Company places a premium on the potential impacts of biodiversity and ecological changes. With numerous power plants and stations distributed across various regions, we have summarized common ecological and environmental impacts, risks, and responses:

Impact/Risk	Response
Centralized renewable energy power stations that occupy substantial land areas during construction may lead to habitat loss	Prohibit construction or development within ecological conservation redlines or environmentally sensitive areas in the site location selection phase Cooperate in local ecological conservation and restoration
Photovoltaic array installations may alter soil temperature and humidity conditions	Develop innovative wind-breaking and sand-fixing techniques based on the characteristics of photovoltaic power stations
Wind power generation turbines may affect migratory bird populations	Avoid migration corridors during site selection and prioritize construction paths with minimal impact on biodiversity
Hydropower generation projects, particularly dam construction, may interrupt natural river flow and affect the migration paths of aquatic species	Bypass core ecological zones and avoid critical watersheds and areas that may cause a significant impact on riverine ecology
Increasing prominence of biodiversity may impact the reputation of power generation companies	Proactively explore ecological conservation partnerships with governmental bodies, non-governmental organizations, and local communities, and disclose key ecological conservation initiatives and achievements as appropriate



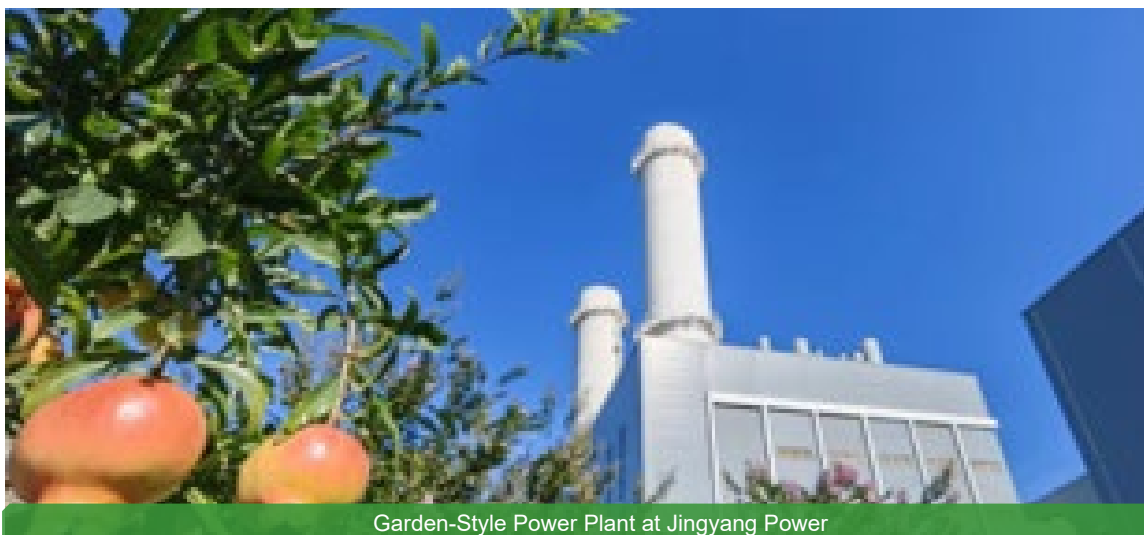
Green Engine Safeguarding Beijing's Water Source — Guanting Wind Farm



Garden-Style Power Plant in the core area of Beijing — Jingyang Power

Garden-style power plants offer a fresh approach to modern urban development by smoothly combining power supply with ecological progress. By weaving eco-friendliness into management from top to down, valuing unity of environmental harmony and beautification, and meeting ultra-low emission standards, Jingyang Power has become integral to urban power and heating supply systems.

As the garden-style power plant closest to Tiananmen Square, Jingyang Power uses recycled urban sewage water for its entire production waters. Through multiple noise reduction techniques, such as sound absorption, noise cancellation, and vibration isolation, the plant has met China's Class I noise standards at its boundaries. It also keeps nitrogen oxide emissions consistently more than 50% below Beijing's standard, earning numerous awards for excellence in energy conservation and emissions reduction.



Garden-Style Power Plant at Jingyang Power



Innovative path to desertification control through wind and photovoltaic power generation— Inner Mongolia Branch and Northwest Branch

Our “photovoltaic-storage-grassland-livestock” power generation projects offer an innovative solution for ecological desertification control in Inner Mongolia and Northwest China. By making use of the shade from photovoltaic panels and the need to clean photovoltaic parts on a regular basis, alongside ecological treatment means and measures, these projects deliver both economic and ecological gains. This year, we invested RMB619.5 million in efforts to combat desertification.

The Inner Mongolia Branch actively participated in the Bordered Yellow Banner 2024 Desertification Control Program of Xilin Gol League's Desertification Control and Wind and Photovoltaic Power Generation Integration Project. This project passed acceptance inspections in September 2024, meeting all construction standards and financial obligations.



Desertification Control Effect by Inner Mongolia Branch through Wind and Photovoltaic Power Generation

The Northwest Branch set up the Zhongwei Photovoltaic Power Station along the edge of the Tengger Desert, planting drought-tolerant vegetation like Artemisia species and using grid-based techniques to fix the sand. By syncing periodical vegetation watering with cleaning photovoltaic modules, the project has achieved an impressive 80% vegetation survival rate in this harsh environment.



Zhongwei Photovoltaic Power Station



Exploring “agriculture-photovoltaic complementarity” new model– Beipiao Photovoltaic Power Station

“Agriculture-photovoltaic complementarity” has emerged as a key move for photovoltaic power stations to make use of the most of land resources while advancing sustainable green agriculture and renewable energy use. Our Northeast Branch's Beipiao Photovoltaic Power Station in Chaoyang, Liaoning Province, showcases this approach by using land in multiple ways: generating electricity with raised panels, growing crops in the spaces between them, and letting livestock graze underneath. This combined approach has assisted in agricultural restructuring and rural revitalization.



Exploring “Agriculture-Photovoltaic Complementarity” Model – Beipiao Photovoltaic Power Station

Rational Resource Utilization

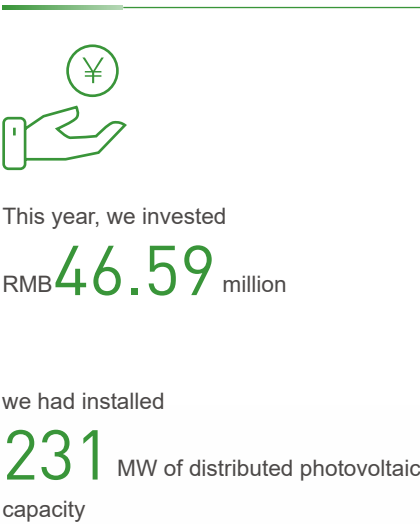
In active response to the national call on resource recycling, the Company has advanced the energy-saving technology upgrade program. We promote rational water use and conduct useful practices for sustainable recycling to minimize resource waste. This year, we invested RMB20.379 million in environmental protection.

Energy-saving Action

In strict compliance with relevant laws and regulations such as the *Energy Law of the People's Republic of China*, the Company has developed and implemented the *Energy-Saving Technical Supervision Guidelines* and the *Energy-Saving Technical Supervision Guidelines for Hydropower Generators*. Additionally, we arrange dedicated energy-saving renovation management roles at production positions responsible for implementing the Company's energy-saving renovation plan and action.

We require all branches and subsidiaries to innovate and plan for their energy-saving work annually and meet renovation targets as required. This year, we invested RMB46.59 million. All affiliates completed significant upgrades including green technology innovations in production facilities and energy-saving renovations in residential areas. We conducted multiple publicity and training sessions on energy-saving renovations, aiming to boost energy utilization efficiency, elevate energy-saving awareness across our workforce, and reduce energy intensity to meet our annual energy-saving targets.

Jingneng Clean Energy employs a "self-consumption, surplus feed-in grid" model to address the demand for green power consumption of its plants. To ensure access to green power during maintenance shutdowns, Beijing-based gas-fired thermal power plants have deployed distributed photovoltaic systems within their facilities. By the end of the Reporting Period, we had installed 231 MW of distributed photovoltaic capacity. Our branches outside Beijing similarly employ self-generation and self-consumption approaches, utilizing outsourced power during safety inspection shutdowns only while relying on internally generated green power during normal operations. This year, our comprehensive site electricity consumption reached 780 GWh, with a rate of 2.01%.



Rational Water Resource Utilization

We place a strong emphasis on the protection and rational utilization of water resources, strictly adhering to national laws and regulations related to water resource protection. The Board of Directors serves as the highest responsible body for the Company's water resource usage. According to our regulations, we assess the potential impacts on the surrounding water environment before starting new projects to ensure water environmental safety. We also regularly conduct water resource stress and risk assessments for all plants and stations, including water quality testing and baseline water stress evaluations.

We source fresh water from municipal water, groundwater, and surface water¹⁰. At power facilities using municipal water, we limit consumption to domestic purposes only and implement a suite of conservation measures. Where groundwater and surface water are utilized, we adhere strictly to local governmental requirements, maintaining all necessary permits¹¹, submitting to regulatory oversight, and remitting quarterly water resource taxes based on consumption to ensure rational water taking and a sound, safe water resource environment.

All our gas-fired thermal power plants purchase reclaimed water for production. Reclaimed water is processed at our own chemical water production facilities to operational standards, thereby minimizing fresh water consumption. Additionally, all landscape irrigation relies exclusively on recycled water, substantially improving our water recycling ratio and reducing water repetition and waste. This year, our reclaimed water usage¹² reached 16,660,576.3 tons, achieving a water recycling rate of 92%.



This year, our reclaimed water usage reached

16,660,576.3 tons

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92%

Sustainable Materials and Recycling

We respond actively to the national call on circular economy. We advocate for waste reduction and recycling policies and have developed the *Management Measures for Office Supplies* and the *Management Measures for Fixed Asset Depreciation*. By streamlining office processes and improving material utilization efficiency, we minimize waste generation. For unavoidable waste streams, through classification, reuse, and reprocessing, we realized resource recovery.

In routine office work, we guide employees to establish eco-friendly, conservative, sustainable principles. For example, we prioritize procurement of sustainable forestry-certified paper and encourage recovery of large-format paper and wood packaging materials. For hazardous items such as toner cartridges, we collect and exchange them with qualified third parties, ensuring their proper handling and recycling.

¹⁰ In 2024, we have been free from any challenge in water taking.

¹¹ i.e., Water taking permits.

¹² The Company's reclaimed water is recycled from municipal reclaimed water.

Wastewater, Waste Gas, Solid Waste, and Noise Management

The Company continuously improves management measures for environmental protection. By strictly abiding by laws and regulations such as the *Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution*, the *Water Pollution Prevention Law of the People's Republic of China*, and the *Law of the People's Republic of China on Prevention and Control of Environmental Pollution by Solid Waste*, we have developed policies including the *Technical Supervision Guidelines for Environmental Protection* and the *Management Measures for Environmental Protection Inspection*. We assign dedicated roles responsible for environmental compliance monitoring, ensuring no negative environmental impact during our production and operational processes. This year, we conducted 98 environmental incident emergency response drills to strengthen employees' response capabilities.

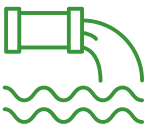
We aim for

- Zero general or above environmental emergencies the Company is held accountable
- Zero environmental notifications (penalties) from provincial or higher government authorities
- Zero discharges of waste gas, wastewater, and particulate matter above the standards
- Compliance with national and local regulations regarding solid waste (including hazardous substances), radioactive substances, noise, electromagnetic radiation, and fugitive emissions

Wastewater Management

All our power plants with industrial wastewater and domestic sewage discharge outlets are required to discharge wastewater to municipal sewage networks or self-built reclaimed water treatment plants. All our production wastewater streams are detected with devices and uploaded to the national regulatory platform, while domestic sewage undergoes quarterly environmental monitoring. This year, the Company discharged 79,818.6 thousand tons of wastewater, with an ammonia nitrogen concentration at approximately 10 mg/L, all up to the discharge standards.

- Our gas-fired thermal power plants are required to minimize water use by monitoring recirculated cooling water quality and dynamically adjusting the chemical dosage and concentration ratio of recirculated cooling water based on the operating conditions of units, thereby reducing the wastewater discharge volume of recirculated water.
- Our wind and photovoltaic power stations are required to conduct annual wastewater sampling testing and issue relevant testing reports.



with an ammonia nitrogen concentration at approximately

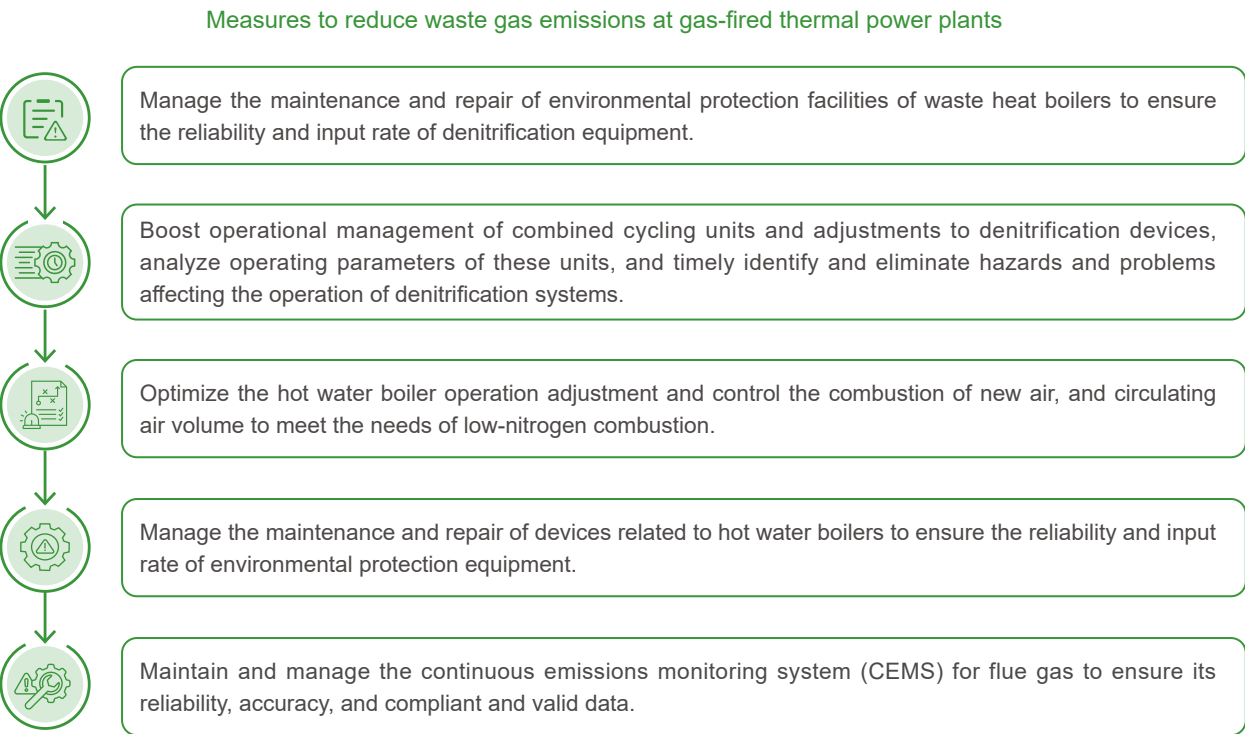
10 mg/L

all up to the discharge standards

Waste Gas Management

As a company specializing in clean energy, we have fundamentally slashed waste gas emissions. This year, all affiliates achieved pollutant concentrations below regulatory thresholds, ensuring a 100% compliance rate. Nevertheless, we maintain rigorous oversight of atmospheric emissions and implement stringent controls that meet both national and local emission density requirements.

All emission outlets are equipped with automated concentration detection and alert devices that transmit data to regulatory authorities on a real-time basis. We have also installed denitrification devices to effectively control nitrogen oxide discharge. This year, all Beijing-based gas-fired thermal power plants achieved compliance with emission standards, with several operating at ultra-low emission levels—maintaining concentrations at or below 50%¹³ of Beijing's emission standards. Our new energy power plants do not involve waste gas emissions.



¹³ Discharge standards in Beijing: An average NO_x concentration of 12mg/m³ for waste heat boiler flue gas and an average NO_x concentration standard of 40mg/m³ for hot water boiler flue gas.



Waste Management

The Company strictly abides by the waste classification¹⁴ requirement. Upholding principles of resource conservation and waste minimization, we either repurpose internally or transfer recyclable materials to qualified third parties for recycling. Regarding kitchen waste, we sign contracts with qualified third parties for compliance processing. For hazardous waste¹⁵, we engage qualified third parties for disposal according to national hazardous waste regulations.



Waste management publicity and education — Jingxi Power's call for waste classification

Jingxi Power has proactively aligned with the national waste classification policy through waste classification publicity and education within its facility and in surrounding communities. This program features multiple innovative approaches, including a dedicated waste classification demonstration area, a waste classification lecture, and encouraging employees to bring waste classification philosophy to home. These efforts have fostered a positive environmental culture, contributing positive strength to environmental protection.



Waste Classification Demonstration Area at Jingxi Power



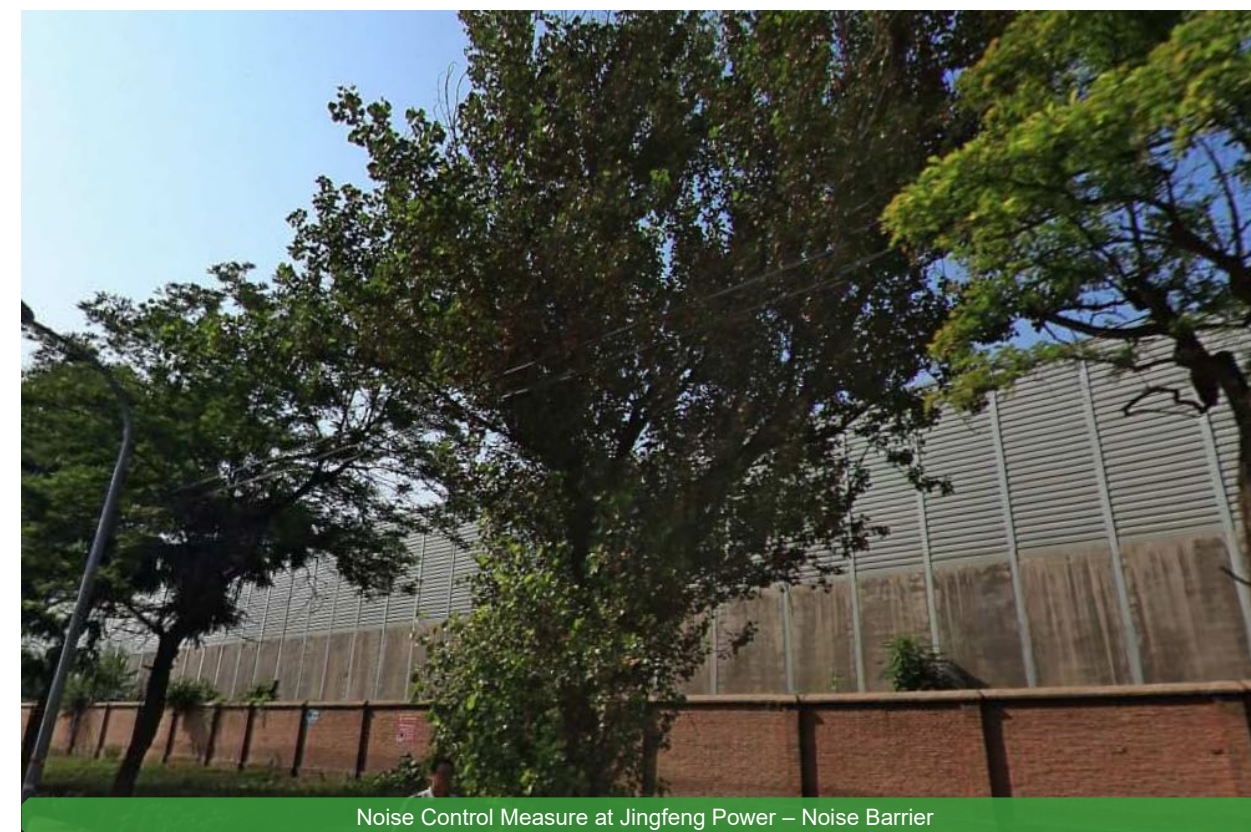
Encouraging Employees to Bring Waste Classification Philosophy to Home

¹⁴ The Company's non-hazardous waste primarily includes recyclable waste, kitchen waste and other non-hazardous waste.

¹⁵ The Company's hazardous waste primarily includes liquid waste and oil-containing waste generated during production processes.

Noise Control

The Company conducts social and environmental impact assessments, including noise evaluations, during the preliminary phase of all projects strictly in accordance with national regulations. This ensures no noise pollution to nearby residents or communities from our power plants. For our gas-fired thermal power plants situated in urban environments, we require them to use multiple noise mitigation techniques, such as sound absorption, noise cancellation, vibration isolation, and acoustic barrier installations, reducing boundary noise levels to meet China's Class I noise standards.



Noise Control Measure at Jingfeng Power – Noise Barrier

03

PUTTING PEOPLE FIRST TO SAFEGUARD PEOPLE'S WELFARE

Sustainability in society encompasses multiple dimensions, all closely linked to the core element of "people." We adhere to a people-centered approach and actively fulfill our corporate social responsibilities. The Company views talent as a vital cornerstone for sustainable development and promotes high-quality employment for our employees. With a focus on innovating talent cultivation and promotion mechanisms, we aim to ensure employee health and safety, safeguard their well-being, and transform our talent advantages into core competitiveness, thus injecting continuous vitality and innovation momentum into the Company's high-quality development. Additionally, we proactively respond to national strategies. We are committed to establishing a responsible supply chain and engaging in external exchanges and cooperation with various partners to promote the development of communities and local industries, thereby contributing to the building of a sustainable and prosperous society.

- Employment Compliance and Human Rights Protection
- Employee Rights and Interests Protection
- Employee Development and Motivation
- Occupational Health and Work Safety
- Sustainable Supply Chain Management
- Product Quality and Clean Energy Supply
- Promoting Community Development

UN SDGs focused in this section:



High-Quality Employment

Talent development is the driving force behind the development of enterprises. We firmly believe that long-term talent cultivation and support are essential to facilitating high-quality employment for talents. In 2024, Jingneng Clean Energy continued to effectively safeguard the legitimate rights and interests of every employee, prioritize the cultivation of every talent, and encourage employees to leverage their strengths. We also provided internal mobility opportunities and innovated long-term incentive measures to achieve sustainable talent development.

Innovation in Talent Selection and Cultivation

In 2024, Jingneng Clean Energy prioritized innovation in talent selection and cultivation. Through precise job matching and scientific incentive mechanisms, we ensure that every talent can demonstrate their abilities in their areas of expertise, thus achieving optimal utilization of talents and maximizing the synergy between personal value and organizational effectiveness.

We proactively promote the implementation of the "Three-System " reform within the Jingneng Clean Energy system. We conduct rational job positioning and staffing, optimize the human resource structure, implement plans for talent team development, improve talent hierarchy development, and refine talent growth channels. We implement hierarchical mobility for managers and talents, and scientifically conduct job-level management and job exchange programs. We offer employees reasonable evaluation mechanisms, promotion channels, and cross-departmental rotation opportunities. More than 40% of newly appointed managers were selected through competitive processes.

We focus on cultivating outstanding managers and core technical talents through building "Three-Talent Teams."

Build an "Entrepreneur Team"

- Organized a "New Leadership Training Program" for 45 newly promoted middle-level managers.
- Cultivated and selected managers and talents through the "Thousand Talents Cultivation Program" and the "Elite Talent Program", with 40% of participants achieving job promotions and 24 outstanding participants being included in the talent pool.

Build the "Engineer Corps"

- Organized internal skill competitions within the Company focusing on gas, photovoltaic, and wind turbine technologies, selecting and nurturing outstanding technical talents through practical training on the job.
- Won the Second Prize in the Wind Turbine Skill Competition for Teams across Five Provinces in Northwest China.

Cultivate a "Group of Master Craftsmen"

- Hosted the first Highly Skilled Talents Seminar of BEH, with 49 participants passing the qualification assessment. The proportion of highly skilled talents in the Company reached 34%. The talent development goal of the 14th Five-Year Plan has been achieved ahead of schedule.
- Launched two study tours focusing on wind turbines and photovoltaics, exploring a seminar model that integrates "theory+practical operation+skill level enhancement".
- Jingfeng Gas' "Leng Liuxi Studio" successfully applied for the status of a National Skill Master Studio, marking the first case of its kind within Jingneng Clean Energy.

Concurrently, we have continued to deepen performance management for all employees by revising and refining the Performance Appraisal Management Measures for the Headquarters and the Employee Remuneration Management Measures. We have implemented these measures in a tiered approach and organized affiliated enterprises to establish performance appraisal systems for all employees. We actively urge affiliated enterprises to establish a mechanism for upward and downward mobility, facilitating internal personnel flow and promotion channels.

Furthermore, we have improved the performance and remuneration management system for executives, intensifying the assessment and incentives for personnel in critical leadership positions. To continuously enhance the quality of term-based and contractual management, we have formulated the Work Plan for Term-Based and Contractual Management of Managers, the Implementation Measures for Term-Based and Contractual Management of Mid-Level Managers, and the Professional Manager Management Plan. In 2024, the Company achieved 100% term-based and contractual management of mid-level managers, and implemented equity incentives for core and key personnel, effectively stimulating employees' enthusiasm and creativity.

Implementing Medium- to Long-Term Equity Incentives to Spark Talent Motivation

In 2024, to further enhance the incentive mechanisms for key talents, the Company officially launched a medium- to long-term equity incentive scheme. This scheme granted stock appreciation rights to 139 key personnel, closely aligning the interests of key employees, shareholders, and the Company. By deeply binding the long-term interests of employees with the Company's sustainable development, we fully mobilized the enthusiasm, initiative, and creativity of outstanding talents and key personnel, achieving mutually beneficial outcomes for the Company, shareholders, and employees alike.

Employee Growth and Development

Employee development is the core driving force behind a Company's sustained growth, with employee growth and the Company's growth mutually reinforcing each other. By establishing a comprehensive and multi-tiered talent development system, we provide each employee with a clear career growth path. Through systematic training and development programs, we unleash their potential, enhance their professional skills, and achieve win-win results for both personal value and corporate goals.

In 2024, we revised and released the Training Management Measures, clarifying the training responsibilities and collaboration methods of each department. We introduced evaluation criteria and incentives for excellence, including awards such as "Outstanding Training Unit", "Excellent Internal Trainer", and recognition for "Professional Title and Skill Improvement". These enhancements complement our "3+3+X" training system, creating a robust framework for employee training, motivation, and promotion, and fostering a more diverse range of training initiatives.

Annual Key Training Initiatives		
"Thousand Talents Program" Training	"Assistance Programme" Training	"Elite Talent Plan" Training
We organized training for participants in the "Pilot" and "Takeoff" classes, with a total of 374 attendees.	The third session of the "Assistance Programme" training was successfully completed, with 12 participants honored as "Outstanding Students". Approximately 40% of the employees received promotions during the training program.	In 2024, we arranged nine employees to participate in the "LinkedIn" training, with one recognized as an "Outstanding Student"; 25 employees took part in the "Elite" training, with four earning the title of "Outstanding Student"; and 85 new employees participated in the "Nurturing Talent" training, with 19 honored as "Outstanding Students", representing a remarkable 22.3% excellence rate that showcases the promising potential of our new recruits.

Nurturing Young Talents to Propel Corporate Growth – "Assistance Programme"

On October 28, 2024, the Company's 2024-2025 "Assistance Programme" training program was officially launched at Tianhu Conference Center. Fifty outstanding young talents from 19 tertiary-level enterprises under Jingneng Clean Energy participated in this training session, engaging in field study tours, centralized teaching sessions, and a combination of "field study tours and action learning" activities. The year 2024 marks the 4th consecutive year that Jingneng Clean Energy has organized the "Assistance Programme" training program, with a total of 410 graduates from the previous three sessions.



"Assistance Programme"

Labor Rights and Interests Protection

The Company has adhered to the principle of breaking down barriers such as geography, gender, age, and educational background. We are open to recruit talents from all walks of life and provide fair employment opportunities for all. We strictly comply with the Labor Law of the People's Republic of China and have formulated regulations such as the Management Measures on Recruitment, Hiring, and Resignation, the Management Measures on Labor Employment, and the Management Measures on Labor Contracts. We have established a labor union to safeguard all employees' rights to freedom of association and to voice their opinions. We resolutely prohibit the employment of child labor and forced labor. Upon discovery of any such violations, we will actively cooperate with law enforcement authorities to deal with them severely. In 2024, the Company's per capita recruitment cost reached RMB2,000, which demonstrates that we attach great importance to each new employee's joining and growth.

Our Commitments

- Prohibit the employment of child labor and forced labor
- Prohibit any discriminatory behavior
- Resolutely ensure equal pay for equal work



We are dedicated to creating an equitable, inclusive, and diverse workplace where all employees are safeguarded from discrimination or unequal treatment based on ethnicity, gender, region, or any other factors.

For employees of ethnic minorities

we show full respect and understanding of their beliefs and customs. For example, we have separate Muslim dining halls for them and provide holidays for Eid al-Adha. In 2024, the Company had 241 employees of ethnic minorities, 19 of whom serve as senior executives within their respective enterprises.

The Company's Employees of Ethnic Minorities in 2024

Employees of Ethnic Minorities

Total Number of Employees of Ethnic Minorities

241 persons

- Total Number of Hui Employees 30 persons
- Total Number of Manchu Employees 83 persons
- Total Number of Employees of Other Ethnic Minorities 128 persons

For female employees

we require all affiliated enterprises to uphold the Company's commitment to equality by institutionally safeguarding their legitimate rights and interests. For instance, Jingqiao Power has formulated the Management Measures on Labor Protection for Female Employees while the Northwest Branch regularly transfers female employees from remote stations to the branch's headquarters, taking into account their needs for a balanced work-life development. In 2024, the Company had 29 female experts, 88 female engineers, and 68 female mid-level managers and above, accounting for 14% of its management team.

Paving the Way for Female Employees' Development - The Story of the Female Roses

The Company remains committed to fostering an equal, inclusive, and opportunity-laden development platform for female employees, supporting them at every step of their professional journey. We enable them to unleash their talents and shine brightly in their respective fields. We offer fair promotion opportunities, extensive training resources, and equitable opportunities for excellence recognition. Through a series of policy support and humanistic care, we pave the way for their career development.



The "Mentor-Apprentice" Learning Program for Outstanding Female Employees in Jingneng Clean Energy

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Safeguarding Employee Well-being

The cohesion and unity of our talent team serve as the cornerstone for achieving high-quality development of the Company. The Company places great emphasis on employee care, dedicated to safeguarding employees' well-being and valuing their feedback. In 2024, we conducted three employee satisfaction surveys with a total of 510 participants.

We effectively protect employees' rights, interests and benefits, providing fixed welfare such as five social insurances (Pension Insurance, Medical Insurance, Unemployment Insurance, Work-related Injury Insurance and Maternity Insurance) and two funds (Housing Provident Fund and Enterprise Annuity), paid leave, regular physical examinations, holiday benefits, career promotion opportunities, year-end bonuses, supplementary medical insurance, and heating allowance reimbursements.

To enrich employees' extracurricular cultural life, enhance their physical fitness, and improve their happiness index, the Company has organized diversified sports, cultural, and artistic activities. These activities have promoted communication and cooperation among employees while improving their physical and mental health. In 2024, we organized 44 employee activities with a total of 2,600 participants.



In 2024, we organized

44 employee activities

with a total of

2,600 participants



Bringing Warmth and Care to Female Employees – "Women's Day" Events

In March 2024, as Women's Day approached, the Company and its subsidiaries organized several care events for female employees. During these events, we honored the "March 8" Red Flag teams and outstanding individuals, engaging female employees in handicraft and reading activities on their special day. We paid tribute to each extraordinary "her" for their contributions to shaping the Company into a world-class clean energy service provider in Beijing that is "smarter, more low-carbon, more flexible, and more resilient."



Jingxi Powerorganized a handicraft activity on Women's Day

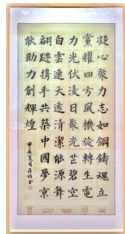


Active Participation in the Inaugural Cultural Festival to Spark Employee Vitality

In 2024, Jingneng Clean Energy actively organized its employees to participate in the BEH's inaugural Cultural Festival. The vibrant and diverse cultural activities provided a platform for employees to showcase their talents, fostering a stronger sense of cohesion and belonging among them and demonstrating the spiritual essence of the corporate culture of a clean energy enterprise.



Grand Prize: "Model of Excellence"



Employee Calligraphy Work

Health and Safety

Health and safety are non-negotiable red lines. In 2024, we continued to implement stringent production safety management and actively cultivated a safety culture. Meanwhile, we paid close attention to collaborative control over our own employees and outsourced units, fully safeguarding the health and safety of all personnel on site.

Work Safety Management

The Company prioritizes safety in all its business operations. We strictly comply with the Work Safety Law of the People's Republic of China, and other relevant laws and regulations. With the Company's top executive as the primary person responsible for safety, we have formulated the Management Regulations on Shared Responsibilities of Party and Administrative Leaders for Work Safety, the Regulations on Work Safety, the Management Regulations of the Work Safety Committee, the Management Measures on the Work Safety Responsibility System, and the Management Measures for Safety Evaluation and Production Performance Evaluation. Every year, we set work safety objectives through the No. 1 Safety Document, ensuring no work-related fatalities or injuries, no plant-wide blackouts, and no severe grid safety accidents. We strictly prevent equipment damage, fires, plant collapses, and traffic accidents to enhance the Company's safety performance.

Meanwhile, we have diligently implemented the three-year action plan to address root causes and tackle key challenges in work safety, strictly enforced the all-staff accountability system for work safety and initiated the "Safety Project" led by key personnel. We have advanced grid-based, checklist-based, digitalized, and technology-driven management in work safety as part of the "Safety Project." Ninety-nine affiliated enterprises (stations) have maintained continuous work safety for more than 1,000 days, 116 enterprises have achieved work safety standardization at Level 3 or above, and 8 pilot unmanned stations have completed the construction of intelligent video systems for identifying unsafe behaviors.

In 2024, building upon our past efforts, we focused on enhancing the identification, prevention, and control of safety risks. We formulated a series of safety supervision and inspection regulations, including the Management Regulations on Pre-control of Safety Risks, the Management Regulations on Safety Supervision of Major Hazards, the Regulations on Supervision over Work Safety, and the Management Measures on Safety Inspection, among others. These regulations further strengthen safety requirements for various special working environments and equipment, strictly standardize daily supervision and inspection work, and conduct identification and rectification of risks and hazards. Additionally, in response to potential acute risk events related to production safety, we released a series of special emergency response plans such as the Emergency Management Regulations for Sudden Environmental Events, the Comprehensive Emergency Response Plan, the Emergency Response Plan for Personal Accidents, the Emergency Response Plan for Natural Disaster Accidents, the Emergency Response Plan for Electric Power Equipment Accidents, and the Emergency Response Plan for Fire Accidents. These plans aim to improve the Company's precise prevention and control capabilities and emergency response capabilities, ensuring the smooth operation of our plants and stations.

To ensure uninterrupted operation of our plants and stations, the Company has taken stringent quality management measures. We formulated the Engineering Quality Management Regulations, the Engineering Construction Management Process, and the Maintenance Quality Management Regulations. These regulations serve as guidance for our quality control and project acceptance processes, and standardize production workflows and equipment maintenance operations to strictly enforce quality assurance. In 2024, we conducted a total of 25,781 maintenance tasks.



In 2024, we conducted a total of

25,781 maintenance tasks

Comprehensive "Health Check" for Thermal Power Plants in Beijing to "Ride Out the Summer Peak"

In June 2024, Beijing faced repeated "red" high temperature warnings. In response to the extreme heat, seven thermal power plants in Beijing successively initiated maintenance and preparatory work. They took proactive measures, conducted meticulous planning and carried out a comprehensive "health check" to promptly eliminate potential equipment hazards, enhance equipment reliability, and ensure the safe and stable supply of electricity for the capital. After the maintenance, Jingneng Clean Energy strictly implemented the energy supply guarantee plan for riding out the summer peak. The seven gas-fired thermal power plants in Beijing safely started and stopped 12 units in June, providing peak shaving support for the capital's energy supply and successfully "riding out the summer peak".



The thermal power plants in Beijing underwent a comprehensive "health check" to prepare for "riding out the summer peak"

Cultivating a Safety Culture

The Company firmly upholds the safety culture philosophy of "Life Above All, Safe Jingneng". We fully implement the work principle that "Safety Responsibility Outweighs Mountains", and enforce relevant regulations such as the Management Regulations on the Development of a Safety Culture and the Management Regulations on Safety Training. In 2024, we organized a total of 4,648 safety training sessions, with the participation of 99,874 employees.

Comprehensive Cultivation of a Safety Culture - "Science Popularization on Emergency Response at the Grassroots Level"

On June 14, 2024, Jingneng Clean Energy organized the "Science Popularization on Emergency Response at the Grassroots Level" experience exchange event as part of the series activities of the safe production month. The event featured video displays of excellent standardized operations from affiliated enterprises, fire-fighting skill demonstrations, fire safety education, escape and evasion drills, emergency rescue experiences, and other sessions, aiming to enhance the professional safety competence of the workforce.



The "Science Popularization on Emergency Response at the Grassroots Level" event

Occupational Safety and Health

The Company attaches great importance to the physical and mental well-being of its employees¹⁶ and arranges health check-ups for all of them. For employees involved in special job types, we have formulated a series of "pre-employment, on-the-job, and post-employment" health examination plans, and provided sufficient labor protection supplies. In 2024, the Company's total investment in safety amounted to RMB212.468 million, maintaining a 100% coverage rate of occupational health examinations.

The Company has formulated and implemented the Management Regulations on Emergency Response for Production Safety, which encompasses comprehensive emergency response plans, specialized emergency response plans, and on-site disposal schemes. We have established a comprehensive safety risk assessment and graded management and control system to prevent and reduce the occurrence of production safety accidents. In 2024, we organized a total of 1,579 emergency drills to ensure that employees and personnel from outsourced units are familiar with safety knowledge, emergency response procedures and operations, thereby enhancing the overall emergency response capabilities of all the employees.

In addition, the Company has provided comprehensive safety training and emergency drill training for all outsourced suppliers, ensuring that they have access to the same work safety protection supplies as the Company's formal employees and safeguarding the safety and health of all on-site operators at work. A total of 15,842 sets of labor protection supplies were distributed in 2024.

Organizing the "Unblocking the Path of Life" Safety Emergency Response Experience Event

On June 18, 2024, taking the opportunity of the national 23rd "Safe Production Month", we launched a safety emergency response experience event with the theme of "Unblocking the Path of Life." We led our employees to the Beijing Public Safety Experience Hall, where they engaged in realistic setups and simulations. The event aimed to enhance the safety awareness of all the employees, lay a solid foundation for safety, and capture the essence of safety education: "beginning with knowledge, shaping with skills, and preventing through awareness."



Visit to the Beijing Public Safety Experience Hall

¹⁶ All activities such as distribution of labor protection supplies, safety emergency drills and training cover employees of outsourced units.

Supply Chain Management

It is our due corporate responsibility to strictly govern and foster the prosperity of both upstream and downstream entities within the value chain. We integrate ESG concepts into our supplier management system and progressively explore responsible supply chain management solutions tailored to characteristics of Jingneng Clean Energy.

The Company has established a supplier management system and digital platform management system. We have formulated a series of regulations including the Contract Management Measures, the Management Measures on Bidding and Procurement, the Procurement Management Measures, and the Management Measures on Non-bidding Procurement. We have improved the supplier evaluation system by introducing a new category of ESG performance appraisal in the evaluation indicators. Suppliers are required to eliminate child labor, forced labor, and discriminatory practices, ensure compliance with national laws and regulations regarding work intensity, working conditions, freedom of association, and labor rights and interests, and meet our key requirements for environmental protection, resource utilization, and emissions management. These measures aim to comprehensively standardize the ESG management framework for suppliers.

We implement full-process supplier management, following the three steps of "access management, review and evaluation, and exit mechanism." This involves strict access screening, qualification review, regular supervision, and strict exit procedures for suppliers. The Company's Board of Directors serves as the highest responsible authority overseeing the implementation of this process.



Access Management

- Implement access management through a combination of unified registration on e-commerce platforms and qualification certification.
- Suppliers gain access after passing qualification reviews through self-recommendation, internal recommendation, or proactive invitation, following the procedures for centralized procurement access, bidding access, and decentralized procurement access.



Regular Monitoring and Evaluation

- Conduct comprehensive evaluations through three preliminary review stages: Qualification Review, Formality Review, and Responsiveness Review.
- The Company and its subsidiaries regularly review and evaluate compliance and dynamically assess and evaluate suppliers' qualifications, procurement processes, contract implementation, and performance effectiveness.
- The Company periodically examines whether suppliers' behavior aligns with the ESG-based management framework. Subsidiaries conduct occasional site visits and supervision to verify suppliers' working environments, product quality, and environmental protection practices.
- In 2024, a total of 1,362 suppliers obtained certifications in quality, occupational safety, environment, or energy management systems.



Exit Mechanism

- Disciplinary measures such as warnings, suspension of bidding qualifications, and blacklist inclusion are enforced against suppliers with misconduct.
- A zero-tolerance policy is adopted for suppliers which violate regulations on human rights, labor rights and interests, environmental protection, anti-corruption, and business ethics, with immediate termination of cooperation upon discovery.
- In 2024, the Company dismissed two non-compliant suppliers.

The Company upholds the "Sunshine Procurement" management philosophy, dedicated to fostering an open, fair, and impartial procurement environment. We implement standardized regulatory frameworks such as the Management Measures on Sunshine Procurement Integrity Commitment and the Management Measures on Professional Conduct of Procurement Personnel, strictly prohibiting any form of corruption and improper trading practices. By enhancing the professionalism and ethical standards of our procurement team, we ensure the rationality of procurement decisions and fairness of outcomes. All suppliers are required to sign the Sunshine Procurement Agreement, which demonstrates our resolute opposition to unfair competition practices. We mandate suppliers' compliance with business ethics, laws, and regulations throughout all collaborations, jointly safeguarding a market environment based on fair competition. In 2024, we organized 409 integrity training sessions for suppliers, with a total of 1,120 suppliers signing the Sunshine Procurement Agreement.



Launching the Special Initiative for Enhancing Tender Procurement to Strengthen Integrity Accountability

The Company adheres to the principles of honesty, transparency, and integrity while continuously improving its tender procurement management systems to enhance the efficiency and quality of procurement. In 2024, through responsible procurement practices and the Special Initiative for Enhancing Tender Procurement - a campaign prioritizing accountability and transparent bidding - we solidified the foundation for the sustainable development of the Company. On June 6, 2024, we convened the Q2 Operational Coordination Meeting and Kickoff Event of the Special Initiative for Enhancing Tender Procurement. All employees were mandated to make a solemn Sunshine Procurement Commitment, which served dual purposes: reinforcing internal integrity awareness and demonstrating our unwavering commitment to integrity and self-discipline to our partners and the public.



Kickoff Event of the Special Initiative for Enhancing Tender Procurement

External Exchanges and Cooperation

As an enterprise committed to fulfilling its social responsibilities, Jingneng Clean Energy proactively engages in exchanges and cooperation with multiple partners while advancing its own business operations. The Company expands university-enterprise partnerships, creates shared value, and fosters a sustainable industry ecosystem to spearhead the development of the industry.

Industry Engagement Highlights

In November 2024, the Company was invited to participate in the World Energy Storage Conference - 2024 themed "Charting New Frontiers in Global Energy Storage: Building Safe, Green Energy Highland". The event aimed to convene stakeholders across government, industry, academia, research, finance, service sectors, and end-users to foster cross-sectoral dialogue and discussion.



In May 2024, the South China Branch was invited to attend the 2024 Smart Power Plant Construction Advanced Technology & Case Study Promotion Conference hosted by the Chinese Society for Electrical Engineering. During the event, the branch shared Jingneng Clean Energy's best practices in the construction of smart power plants.

In September 2024, Gaoantun Power was invited to participate in the 2024 National Power Industry Quality-Trusted Team Development Training & Best Practice Exchange Symposium hosted by the China Association for Water and Electricity Quality Management. The event served as a platform for Gaoantun Power to showcase Jingneng Clean Energy's quality management expertise and insights in the power sector.



University-Enterprise Cooperation

To align with national policies such as the "Integrated Reform on Education, Science and Technology, and Talent Systems and Mechanisms", the Company signed a University-Enterprise Cooperation Agreement on Establishing a University Student Internship & Practice Base with North China Electric Power University. This initiative aims to deepen the Company's engagement with universities while opening its facilities to university students for on-site learning opportunities. In 2024, Jingyang Thermal Power organized over 400 students from North China Electric Power University and more than 20 students from Tsinghua University to visit its facilities and experience industry operations.



The Inner Mongolia Branch and Zhejiang University Win the First Prize for an Outstanding Industry-University-Research Collaboration Project

The Industry-University-Research (IUR) collaboration project "R&D and Application of Key Technologies for Large-Capacity Permanent Magnet Wind Power Generator Systems Under Complex Operating Conditions", co-developed by the Inner Mongolia Branch and Zhejiang University, was awarded the First Prize of the 2024 Shanghai Outstanding IUR Collaboration Projects Awards. The research, jointly conducted by the Inner Mongolia Branch, Zhejiang University, and other partners, achieved significant breakthroughs in enabling permanent magnet wind generator systems - a core component of large wind turbines - to withstand harsh environments, including extreme low temperatures, sandstorms, frosting, lightning strikes, salt spray, typhoons, high altitudes, and high-speed airflow.



2024 Award Ceremony for Shanghai Outstanding IUR Collaboration Projects

Public Communication

The Company prioritizes open communication channels with the public. All power plants are required to prominently display contact information for public feedback. Accessible communication channels were provided through our official website and social media accounts, ensuring timely responses to public suggestions and concerns.

Every year, we participate in the Capital State-Owned Enterprise Open Day. In 2024, Jingxi Thermal Power - a century-old garden-like power plant - was selected as a host site. Over 70 citizens registered for guided tours, learning about power plant operations and electricity generation processes. This activity fostered deeper engagement between the power plant and local communities.



Science Popularization Session at the Capital State-Owned Enterprise Open Day

Promoting Public Well-being Together

As a state-owned enterprise based in the capital, Jingneng Clean Energy proactively fulfills its social responsibilities by driving local economic growth, contributing to rural revitalization, and advancing social welfare initiatives - all in collaboration with communities to build a better society.

Driving Economic Growth

We leverage our main business to improve local infrastructure in regions where our power plants operate, while prioritizing local hiring and procuring to boost local economies. Administrative and functional roles are preferentially filled by local talents, and canteen procurement prioritizes locally sourced ingredients, provided that operational needs are met.

In 2024, we invested RMB2,747.165 million in local procurement, engaged in cooperation with 1,380 local suppliers engaged, and provided 708 local local employment positions.

Our Goal

- All affiliated enterprises shall allocate 30% of their canteen procurement budgets to product purchases that support rural revitalization.



Leading Energy Supply to Support Regional Economy - Central China Branch's First Self-Developed Photovoltaic (PV) Project Successfully Generates Electricity

At 8:18 am on November 2, 2024, the first batch of PV units at Jiuwanxi 100MW PV Power Station - the first ground-mounted centralized PV project independently developed and constructed by the Central China Branch - successfully generates electricity and synchronized with the grid. Located in the Three Gorges Dam area of Zigui County, Yichang City, the Jiuwanxi project marks the first self-developed "tea-solar power complementarity" PV project in the clean energy sector. It serves as a vivid demonstration of the Central China Branch's strategic commitment to "based in Yichang, exploring the Hubei, and radiating across the Yangtze River Economic Belt."



Aerial view of Jiuwanxi PV Power Station



Main Business Catalyzes Regional Economy – Southwest Branch Secures Construction Approval for First Wind Power Project in Guangxi

On April 18, 2024, the Southwest Branch received approval for the construction of its first centralized wind power project - the Phase I Project of Quanzhou Hualiu Mountain Wind Farm. Located on Hualiu Mountain in Quanzhou, Guangxi, the project involves a total investment of approximately RMB570 million. It underscores Jingneng Clean Energy's contribution to accelerating the development of local high-quality wind power resources, ensuring safe and stable energy supply, and driving economic and social development in the region.



Phase I Project of Quanzhou Hualiu Mountain Wind Farm

Rural Revitalization

The Company has thoroughly studied and implemented the guiding principles outlined in General Secretary Xi Jinping's important speeches and directives on rural revitalization. We have successively stationed dedicated First Secretaries in Shixia Village, Yanqing District and Xiaolongmen Village, Mentougou District (both located in Beijing's rural areas) to actively explore innovative paths for rural revitalization through "Party leadership, cultural exchanges, resource complementarity, and cooperation for win-win results." These efforts have effectively consolidated and expanded poverty alleviation achievements while bridging the transition to sustainable rural development, accelerating China's achievement of national rural revitalization goals. In 2024 alone, we invested RMB4.15 million in consumption-driven poverty alleviation initiatives and created 141 local job opportunities.



Dispatching Village Officials to Spur Rural Development Through Industrial Revitalization

Mr. Song Xuan from Jingfeng Gas, subsidiary of the Company serves as the First Secretary stationed in Xiaolongmen Village. He proactively integrated resources through field research, studied the advanced experience of model villages, personally demonstrated agricultural cultivation techniques, and seasonally updated the village's agricultural product portfolio. With these efforts, he has driven industrial growth and transformed Xiaolongmen Village into a candidate for the "Poetic and Picturesque Village" initiative.



The Stationed First Secretary participated in Xiaolongmen Village's community singing competition to engage with the villagers



The Stationed First Secretary assisted farmers in the fields, contributing to the construction of a beautiful village

Volunteering and Public Welfare Initiatives

The Company aligns corporate growth with regional sustainability through diverse volunteering and public welfare initiatives, contributing the strength of Jingneng Clean Energy people to building a harmonious society and thriving communities. During the Year, we invested RMB11.59 million in public welfare donations.

In 2024, on the 61st National Lei Feng Commemoration Day, we championed the volunteer spirit of "dedication, fraternity, mutual assistance, and progress" to strengthen the development of corporate culture. By organizing diverse volunteering activities, we mobilized employees across all subsidiaries to engage in community service, environmental protection, and other public welfare initiatives. These efforts aimed to revitalize the Lei Feng spirit in the new era, encourage employees to actively take greater responsibilities for public welfare undertakings, and unite collective strength for China's socialist modernization and national rejuvenation.



Universal love for all, providing answers and solutions for patients



Fostering environmental protection awareness through waste sorting advocacy and public welfare initiatives

APPENDIX 1: ESG PERFORMANCE OVERVIEW

In 2024, Jingneng Clean Energy, in line with the latest regulatory requirements and the most recent domestic and international standards, updated its ESG indicator system as deemed appropriate, building on previous ESG data collection work. It clarified the data collection criteria, effectively enhancing the precision and scientific management of ESG data.

Environmental Performance

Indicator Name	Unit	2024	2023	2022
Total Nitrogen Oxides (NO _x) Emissions	Ton	1,299.55	1,405	1,365
Total Sulfur Dioxide (SO ₂) Emissions	Ton	76.5	84	82
Total Particulate Matter Emissions	Ton	74.8	93	78
Total Hazardous Waste Volume ¹⁷	Ton	1,593.4	194	186
Total Hazardous Waste Emissions Density	Ton per billion kilowatt-hours	4.0	0.5	0.51
Total Non-Hazardous Waste Volume ¹⁸	Ton	3,252.4	366	369
Non-Hazardous Waste Emission Density	Ton per billion kilowatt-hours	8.1	0.94	1.01
Total Gas Consumption	Megawatt-hour (MWh)	43,760,311.8	45,063,253	43,033,931
Total Gasoline Consumption	Megawatt-hour (MWh)	4,857.8	9,017	10,335
Total Diesel Consumption	Megawatt-hour (MWh)	42.6	362	240
Total Direct Energy Consumption	Megawatt-hour (MWh)	43,765,212.1	45,870,462	43,647,595
Total Purchased Electricity Consumption	Megawatt-hour (MWh)	125,717.2	109,755	98,993
Total Comprehensive Energy Consumption ¹⁹	Megawatt-hour (MWh)	44,575,752.7	45,980,217	43,746,588
Comprehensive Energy Consumption Density	Megawatt-hour per billion kilowatt-hours	111,411.5	118,232	119,428
Fresh Water Intake ²⁰	Ton	2,610,617.5	1,878,168	1,673,525
Fresh Water Intake intensity	Ton per billion kilowatt-hours	6,524.9	4,829.44	4,568.73

¹⁷ The total volume of hazardous waste witnessed a substantial increase in 2024, mainly attributable to the rare hailstorm that struck the Southwest Branch. This natural disaster necessitated the normal scrapping and replacement of a large number of PV modules, resulting in the generation of hazardous waste such as discarded PV modules, all of which were properly disposed. In addition, the Beijing Branch and the South China Branch also conducted routine replacements of PV modules due to the expiration of their service life.

¹⁸ The total volume of non-hazardous waste witnessed a substantial increase in 2024, mainly attributable to the rare hailstorm that struck the Southwest Branch. This natural disaster necessitated the normal scrapping and replacement of a large number of photovoltaic (PV) modules, resulting in the generation of non-hazardous waste such as metal supports, all of which were properly disposed.

¹⁹ The total comprehensive energy consumption encompasses self-generated and self-consumed electricity.

²⁰ The fresh water intake increased in the Year, mainly due to the fact that production water usage is related to heat supply. When heat supply decreases, the unit's consumption of production water increases. As the average temperature during the heating season in 2024 was higher than those in previous years, the heat supply from gas-fired thermal power plants in Beijing decreased year-on-year, leading to an increase in the unit's consumption of production water and, consequently, an increase in fresh water intake.

Indicator Name	Unit	2024	2023	2022
Reclaimed Water Intake ²¹	Ton	16,660,576.3	/	/
Total Fresh and Reclaimed Water Intake	Ton	19,271,193.8	/	/
Fresh and Reclaimed Water Intake Intensity	Ton per billion kilowatt-hours	48,165.9	/	/
Scope 1: Direct Greenhouse Gas Emissions	10,000 tons of CO ₂ equivalent	877.1	901.24	860.57
Scope 2: Indirect Greenhouse Gas Emissions	10,000 tons of CO ₂ equivalent	6.7	6.31	5.69
Scope 1 & 2: Total Greenhouse Gas Emissions	10,000 tons of CO ₂ equivalent	883.8	907.75	866.35
Scope 1 & 2: Total Greenhouse Gas Emission Intensity	10,000 tons of CO ₂ equivalent per billion kilowatt-hours	2.2	2.33	2.37
Scope 3 ²²	10,000 tons of CO ₂ equivalent	0.1	0.2	0.09
Total Greenhouse Gas Emissions	10,000 tons of CO ₂ equivalent	883.9	907.95	866.44
Environmental Notifications (Penalties) from Provincial or Higher Government Authorities	Incident	0	0	0

Human Resources Management Performance

Indicator Name	Unit	2024	2023	2022
Total Full-Time Employees	Person	3,176 ²³	3,301	3,190
Total Male Employees	Person	2,555	2,643	2,533
Total Female Employees	Person	621	658	657
Total Employees Aged 35 and Below	Person	1,454	1,537	1,548
Total Employees Aged 36-45	Person	986	901	769
Total Employees Aged 46-55	Person	627	730	744
Total Employees Aged 56 and Above	Person	109	133	129
Total Employees in China	Person	3,133	3,258	3,172
Total Overseas Employees	Person	43	43	18
Number of Female Employees in Middle Management and Above	Person	68	65	79
Total Employees with Doctoral Degrees	Person	5	3	2
Total Employees with Master's Degrees	Person	241	216	172

²¹ To further strengthen performance management of water resource utilization, a new indicator for reclaimed water intake was added in the Year.

²² In 2024, Scope 3 emissions calculated only cover employees' commuting data.

²³ In 2024, the Southwest Branch of the Company experienced a reduction in workforce due to policy impacts such as the hydroelectricity disconnection from the grid.

Indicator Name	Unit	2024	2023	2022
Total Employees with Bachelor's Degrees	Person	2,251	2,151	1,999
Total Employees with Associate Degrees or Below	Person	679	931	1,017
Total Employees with Disabilities	Person	7	10	13
Labor Contract Signing Rate	%	100	100	100
Social Insurance Coverage Rate	%	100	100	100
Proportion of Employees Joining the Labor Union	%	100	100	100
Employee Turnover Rate	%	3.0	3	5
Male Employee Turnover Rate	%	2.7	3	5
Female Employee Turnover Rate	%	4.1	6	6
Attrition Rate of Regular Employees Aged 35 and Below	%	2.7	2	3
Attrition Rate of Regular Employees Aged 36-45	%	1.9	4	7
Attrition Rate of Regular Employees Aged 46-55	%	3.7	3	5
Attrition Rate of Regular Employees Aged 56 and Above	%	13.9	13	16
Turnover Rate of Chinese Employees	%	3.0	3	5
Turnover Rate of Overseas Employees	%	0	9	17
Total Investment in Employee Training	RMB10,000	1,182.4	1,300.87	473.12
Employee Training Coverage Rate	%	100.0	100	98.46
Total Number of Trained Employees	Person	3,133	3,311	3,141
Total Training Hours	Hour	522,682.4	249,754	256,820
Average Training Investment per Employee	RMB10,000	0.4	0.39	0.15
Average Training Hours per Male Employee	Hour	174.0	73	85
Average Training Hours per Female Employee	Hour	127.7	85	69
Average Training Hours per Senior Management Employee	Hour	105.0	96	101
Average Training Hours per Middle Management Employee	Hour	135.9	96	73
Average Training Hours per Regular Employee	Hour	169.6	72	82
Proportion of Trained Male Employees	%	80.6	80	79
Proportion of Trained Female Employees	%	19.4	20	21
Proportion of Trained Senior Management Employees	%	3.4	3	3
Proportion of Trained Middle Management Employees	%	12.2	13	11
Proportion of Trained Regular Employees	%	84.4	89	86

Safety Production Performance

Indicator Name	Unit	2024	2023	2022
Number of Major Equipment Accidents	Time	0	0	0
Total Annual Investment in Safety Production	RMB10,000	21,246.8	21,669.66	8,885
Total Number of Employees Participating in Safety Training	Participant	99,874	43,747	27,318
Number of Workplace Accidents	Incident	0	0	0
Total Annual Number of Work-Related Fatalities	Person	0	0	0
Total Annual Number of Workdays Lost Due to Work-Related Injuries	Day	0	0	0
Lost Time Injury Frequency Rate (LTIFR) per Million Employee Hours	%	0	0	0
Lost Time Injury Frequency Rate (LTIFR) per Million Contractor Hours Related to projects of the Company	%	0	0	0

Technological Innovation Performance

Indicator Name	Unit	2024	2023	2022
Total Annual Investment in Technological Innovation	RMB100 million	8.8	7.2	/
Total Number of Approved Technological Projects	Count	63	48	/

Supply Chain Management Performance

Indicator Name	Unit	2024	2023	2022
Number of Suppliers in North China	Count	2,177	1,605	1,698
Number of Suppliers in Northeast China	Count	315	215	301
Number of Suppliers in East China	Count	295	234	190
Number of Suppliers in Central China	Count	220	309	221
Number of Suppliers in Northwest China	Count	180	171	180
Number of Suppliers in South China	Count	234	219	154
Number of Overseas Suppliers	Count	1	42	141
Total Number of Suppliers	Count	3,422	2,795	2,885

APPENDIX 2: APPENDIX C2 OF THE LISTING RULES OF THE HONG KONG STOCK EXCHANGE

Subject Areas, Aspects, General Disclosures and KPIs			Section/Document
A. ENVIRONMENTAL			
Aspect A1: Emissions	General Disclosure: Relating to air emissions, discharges into water and land, and generation of hazardous and non-hazardous waste: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer. <i>Note: Air emissions include NO_x, SO_x, and other pollutants regulated under national laws and regulations. Hazardous wastes are those defined by national regulations.</i>		2 Moving Toward Green to Create a Better Ecology
	Key Performance Indicator A1.1	The types of emissions and respective emissions data.	Wastewater, Waste Gas, Solid Waste, and Noise Management ESG Performance Overview
	Key Performance Indicator A1.3	Total hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility).	ESG Performance Overview
	Key Performance Indicator A1.4	Total non-hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility).	ESG Performance Overview
	Key Performance Indicator A1.5	Description of emission target(s) set and steps taken to achieve them.	Wastewater, Waste Gas, Solid Waste, and Noise Management
	Key Performance Indicator A1.6	Description of how hazardous and non-hazardous wastes are handled, and a description of reduction target(s) set and steps taken to achieve them.	Wastewater, Waste Gas, Solid Waste, and Noise Management
	General Disclosure: Policies on the efficient use of resources, including energy, water and other raw materials. <i>Note: Resources may be used in production, in storage, transportation, in buildings, electronic equipment, etc.</i>		2 Moving Toward Green to Create a Better Ecology
Aspect A2: Use of Resources	Key Performance Indicator A2.1	Direct and/or indirect energy consumption by type (e.g. electricity, gas or oil) in total (kWh in '000s) and intensity (e.g. per unit of production volume, per facility).	ESG Performance Overview
	Key Performance Indicator A2.2	Water consumption in total and intensity (e.g. per unit of production volume, per facility).	ESG Performance Overview
	Key Performance Indicator A2.3	Description of energy use efficiency target(s) set and steps taken to achieve them.	Rational Resource Utilization

Subject Areas, Aspects, General Disclosures and KPIs			Section/Document
Aspect A2: Use of Resources	Key Performance Indicator A2.4	Description of whether there is any issue in sourcing water that is fit for purpose, water efficiency target(s) set and steps taken to achieve them.	Rational Resource Utilization
	Key Performance Indicator A2.5	Total packaging material used for finished products (in tonnes) and, if applicable, with reference to per unit produced.	Due to the nature of our business, this indicator is not involved
Aspect A3: The Environment and Natural Resources	General Disclosure: Policies on minimizing the issuer's significant impact on the environment and natural resources.		2 Moving Toward Green to Create a Better Ecology
	Key Performance Indicator A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them.	Biodiversity
B. SOCIAL			
Employment and Labour Practices			
Aspect B1: Employment	General Disclosure: Relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination, and other benefits and welfare: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to preventing child and forced labour.		3 Putting People First to Safeguard People's Welfare
	Key Performance Indicator B1.1	Total workforce by gender, employment type (for example, full- or part-time), age group and geographical region.	ESG Performance Overview
	Key Performance Indicator B1.2	Employee turnover rate by gender, age group and geographical region.	ESG Performance Overview
	General Disclosure: Information relating to providing a safe working environment and protecting employees from occupational hazards: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer		3 Putting People First to Safeguard People's Welfare
Aspect B2: Health and Safety	Key Performance Indicator B2.1	Number and rate of work-related fatalities occurred in each of the past three years including the reporting year.	ESG Performance Overview
	Key Performance Indicator B2.2	Lost days due to work injury.	ESG Performance Overview
	Key Performance Indicator B2.3	Description of occupational health and safety measures adopted, and how they are implemented and monitored.	Health and Safety
Aspect B3: Development and Training	General Disclosure: Policies on improving employees' knowledge and skills for discharging duties at work. Description of training activities. <i>Note: Training refers to vocational training. It may include internal and external courses paid by the employer.</i>		3 Putting People First to Safeguard People's Welfare

Subject Areas, Aspects, General Disclosures and KPIs			Section/Document
Aspect B3: Development and Training	Key Performance Indicator B3.1	The percentage of employees trained by gender and employee category (e.g. senior management, middle management).	ESG Performance Overview
	Key Performance Indicator B3.2	The average training hours completed per employee by gender and employee category.	ESG Performance Overview
Aspect B4: Labour Standards	General Disclosure: Relating to preventing child and forced labour: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer.		3 Putting People First to Safeguard People's Welfare
	Key Performance Indicator B4.1	Description of measures to review employment practices to avoid child and forced labour.	High-Quality Employment
	Key Performance Indicator B4.2	Description of steps taken to eliminate such practices when discovered.	Our company has not engaged in any child labor or forced labor throughout the Year, so this clause is not applicable
Operating Practices			
Aspect B5: Supply Chain Management	General Disclosure: Policies on managing environmental and social risks of the supply chain.		3 Putting People First to Safeguard People's Welfare
	Key Performance Indicator B5.1	Number of suppliers by geographical region.	ESG Performance Overview
	Key Performance Indicator B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, how they are implemented and monitored.	Supply Chain Management
	Key Performance Indicator B5.3	Description of practices used to identify environmental and social risks along the supply chain, and how they are implemented and monitored.	Supply Chain Management
	Key Performance Indicator B5.4	Description of practices used to promote environmentally preferable products and services when selecting suppliers, and how they are implemented and monitored.	Supply Chain Management
Aspect B6: Product Responsibility	Information relating to health and safety, advertising, labelling and privacy matters relating to products and services provided and methods of redress: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer.		3 Putting People First to Safeguard People's Welfare
	Key Performance Indicator B6.1	Percentage of total products sold or shipped subject to recalls for safety and health reasons.	The company's main business is clean energy power generation and gas heating, not involving product recal

Subject Areas, Aspects, General Disclosures and KPIs			Section/Document
Aspect B6: Product Responsibility	Key Performance Indicator B6.2	Number of products and service related complaints received and how they are dealt with.	The company does not handle complaints regarding products and services due to bussiness nature
	Key Performance Indicator B6.3	Description of practices relating to observing and protecting intellectual property rights.	Business Ethics
	Key Performance Indicator B6.4	Description of quality assurance process and recall procedures.	Health and Safety The company does not involve recall procedures due to bussiness nature.
	Key Performance Indicator B6.5	Description of consumer data protection and privacy policies, how they are implemented and monitored.	The company does not involve consumer data protection and privacy due to bussiness nature.
	General Disclosure: Relating to bribery, extortion, fraud and money laundering: (a) the Policy; and (b) compliance with relevant laws and regulations that have a significant impact on the.		1 Digging Deeper to Build a Solid Governance Foundation
Aspect B7: Anti-corruption	Key Performance Indicator B7.1	Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the Reporting Period and the outcomes of the cases.	Business Ethics
	Key Performance Indicator B7.2	Description of preventive measures and whistle-blowing procedures, how they are implemented and monitored.	Business Ethics
	Key Performance Indicator B7.3	Description of anti-corruption training provided to directors and employees.	Business Ethics
Community			
Aspect B8: Community Investment	General Disclosure: Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take into consideration the communities' interests.		3 Putting People First to Safeguard People's Welfare
	Key Performance Indicator B8.1	Focus areas of contribution (e.g. education, environmental concerns, labour needs, health, culture, sport).	Promoting Public Well-being Together
	Key Performance Indicator B8.2	Resources contributed (e.g. money or time) to the focus area.	Promoting Public Well-being Together

APPENDIX 3: ESG SPECIALIZED REPORTING
REFERENCE INDICATOR SYSTEM FOR CENTRAL
SOE-CONTROLLED LISTED COMPANIES

Environmental Dimension

Tier 1 Indicator	Tier 2 Indicator	Tier 3 Indicator	Corresponding Chapter
E.1 Resource Consumption	E.1.1 Water Resources	E.1.1.1 Freshwater consumption volume	ESG Performance Overview
		E.1.1.2 Recycled water consumption volume	ESG Performance Overview
		E.1.1.3 Recycled water utilization ratio	ESG Performance Overview
		E.1.1.4 Water consumption intensity	ESG Performance Overview
	E.1.2 Materials	E.1.2.1 Non-renewable material consumption	ESG Performance Overview
		E.1.2.2 Hazardous material consumption	ESG Performance Overview
		E.1.2.3 Material consumption intensity	ESG Performance Overview
	E.1.3 Energy	E.1.3.1 Fossil energy consumption	ESG Performance Overview
		E.1.3.2 Non-fossil energy consumption	ESG Performance Overview
		E.1.3.3 Non-fossil energy utilization ratio	ESG Performance Overview
		E.1.3.4 Total energy consumption	ESG Performance Overview
		E.1.3.5 Energy consumption intensity	ESG Performance Overview
	E.1.4 Packaging Materials	E.1.4.1 Packaging material usage	ESG Performance Overview
		E.1.4.2 Lightweighting and reduction of packaging materials	Rational Resource Utilization
E.2 Pollution Prevention & Control	E.2.1 Wastewater	E.2.1.1 Compliance with wastewater discharge standards	Wastewater, Waste Gas, Solid Waste, and Noise Management
		E.2.1.2 Wastewater management & emission reduction measures	Wastewater, Waste Gas, Solid Waste, and Noise Management
		E.2.1.3 Total wastewater discharge volume	ESG Performance Overview
		E.2.1.4 Wastewater pollutant discharge volume	ESG Performance Overview
		E.2.1.5 Wastewater pollutant discharge concentration	ESG Performance Overview
	E.2.2 Exhaust Gas	E.2.2.1 Compliance with exhaust gas emission standards	Wastewater, Waste Gas, Solid Waste, and Noise Management

Tier 1 Indicator	Tier 2 Indicator	Tier 3 Indicator	Corresponding Chapter
E.2 Pollution Prevention & Control	E.2.2 Exhaust Gas	E.2.2.2 Exhaust gas pollutant discharge volume	ESG Performance Overview
		E.2.2.3 Exhaust gas pollutant emissions concentration	ESG Performance Overview
	E.2.3 Solid Waste	E.2.3.1 Regulatory compliance in solid waste disposal	Wastewater, Waste Gas, Solid Waste, and Noise Management
		E.2.3.2 General industrial solid waste management	Wastewater, Waste Gas, Solid Waste, and Noise Management
		E.2.3.3 Disposal volume of general industrial solid waste	ESG Performance Overview
		E.2.3.4 Hazardous waste management	Wastewater, Waste Gas, Solid Waste, and Noise Management
E.3 Climate Change	E.3.1 Greenhouse Gas (GHG) Emissions	E.2.3.5 Disposal volume of hazardous waste	ESG Performance Overview
	E.3.2 Emission Reduction Management	E.3.1.1 Sources and types of GHG emissions	Wastewater, Waste Gas, Solid Waste, and Noise Management
		E.3.1.2 GHG emission management practices	Wastewater, Waste Gas, Solid Waste, and Noise Management
		E.3.1.3 Scope 1 emissions	Climate Change Response
		E.3.1.4 Scope 2 emissions	Climate Change Response
		E.3.1.5 Scope 3 emissions	Climate Change Response
		E.3.1.6 GHG emission intensity	Climate Change Response
	E.3.3 Environmental Equity Trading	E.3.2.1 GHG emission reduction management practices	Climate Change Response
		E.3.2.2 Achieved GHG emission reductions	Climate Change Response
	E.3.4 Climate Risk Management	E.3.3.1 Participation in carbon emissions trading markets	As a clean energy thermal power generation and operation enterprise not subject to mandatory carbon market participation, the Company has proactively engaged in green electricity trading and related business.
		E.3.3.2 Engagement in energy use rights, water rights, and pollutant discharge rights trading	Not applicable
		E.3.3.3 Participation in green electricity trading schemes	Climate Change Response
E.4 Biodiversity	E.4.1 Impacts of Production, Services and Products on Biodiversity	E.3.4.1 Climate-related risk management	Climate Change Response
		E.4.1.1 Impacts of Production, Services and Products on Biodiversity	Biodiversity

Tier 1 Indicator	Tier 2 Indicator	Tier 3 Indicator	Corresponding Chapter
E.5 Resource and Environmental Governance Regulations and Measures	E.5.1 Formulation of Low-Carbon Development Goals and Strategic Measures	E.5.1.1 Formulation of Low-Carbon Development Goals and Strategic Measures	Climate Change Response
	E.5.2 Resource Management Measures	E.5.2.1 Water Resource Utilization Management	Rational Resource Utilization
		E.5.2.2 Material Utilization Management	Rational Resource Utilization
		E.5.2.3 Energy Utilization and Conservation Management	Rational Resource Utilization
	E.5.3 Energy-Carbon Performance Monitoring Assessment, Reward and Punishment System	E.5.3.1 MRV Protocol for Energy Efficiency & Carbon Emission Tracking	ESG Management
	E.5.4 Green Environmental Protection Actions and Initiatives	E.5.4.1 Clean Production	Climate Change Response
		E.5.4.2 Green Technological Upgrades & Circular Economy Practices	Rational Resource Utilization
		E.5.4.3 Green Building Retrofit	Not applicable
		E.5.4.4 Green Office and Operations	Efficient Resource Utilization
		E.5.4.5 Green Procurement & Sustainable Supply Chain Management	Supply Chain Management
		E.5.4.6 Environmental Protection & Public Welfare Programs	Promoting Public Well-being Together
		E.5.6.1 Environmental Emergency Response Protocol	Wastewater, Waste Gas, Solid Waste, and Noise Management
	E.5.6 Environmental Compliance	E.5.6.2 Environmental Non-Compliance Incidents	Wastewater, Waste Gas, Solid Waste, and Noise Management

Social Dimension

Tier 1 Indicator	Tier 2 Indicator	Tier 3 Indicator	Corresponding Chapter
S1 Employee Rights and Interests	S1.1 Employee Recruitment & Employment Practices	S1.1.1 Corporate Recruitment Policies and Implementation	High-quality Employment
		S1.1.2 Workforce Demographics	ESG Performance Overview
		S1.1.3 Prohibition of Child Labor and Forced Labor	High-quality Employment
	S1.2 Employee Remuneration & Benefits	S1.2.1 Remuneration Philosophy and Policies	High-quality Employment
		S1.2.2 Working Hours, Rest & Leave Entitlements	High-quality Employment

Tier 1 Indicator	Tier 2 Indicator	Tier 3 Indicator	Corresponding Chapter
S1 Employee Rights and Interests	S1.2 Employee Remuneration & Benefits	S1.2.3 Remuneration and Welfare	High-quality Employment
		S1.2.4 Employee Democratic Participation Mechanisms	High-quality Employment
	S1.3 Employee Health & Safety	S1.3.1 Employee Occupational Health and Safety Management	Health and Safety
		S1.3.2 Employee Safety Risk Prevention and Control	Health and Safety
		S1.3.3 Emergency Response to Accidents and Injuries	Health and Safety
		S1.3.4 Employee Care and Support Programs	High-quality Employment
	S1.4 Employee Development & Training	S1.4.1 Employee Performance Incentive and Promotion Policies	High-quality Employment
		S1.4.2 Employee Education and Training	High-quality Employment
		S1.4.3 Employee Career Planning and Mobility Support	High-quality Employment
	S1.5 Employee Satisfaction	S1.5.1 Employee Satisfaction Survey	High-quality Employment
		S1.5.2 Labor Dispute	ESG Performance Overview
		S1.5.3 Employee Mobility	ESG Performance Overview
S2 Product & Service Management	S2.1 Product Safety & Quality	S2.1.1 Production Standard Management Policies and Measures	Health & Safety
		S2.1.1 Production Standard Management Policies and Measures	Health and Safety
		S2.1.2 Quality Control	Health and Safety
		S2.1.3 Product Recall/Withdrawal	Not applicable
		S2.1.4 Product/Service-Related Adverse Incidents	Not applicable
		S2.2.2 Customer Complaint & Handling	Health and Safety
	S2.2 Innovative Development	S2.2.1 R&D and Innovation Management System	Feature 1: Digital and Intelligent Management
		S2.2.2 R&D Investment	Feature 1: Digital and Intelligent Management
		S2.2.3 Innovation Outcomes	Feature 1: Digital and Intelligent Management
		S2.2.4 Intellectual Property Protection	Feature 1: Digital and Intelligent Management

Tier 1 Indicator	Tier 2 Indicator	Tier 3 Indicator	Corresponding Chapter
S3 Supply Chain Security and Management	S3.1 Supplier Management	S3.1.1 Supplier Selection and Management	Supply Chain Management
		S3.1.2 Number and Distribution of Suppliers	ESG Performance Overview
	S3.2 Supply Chain Management	S3.2.1 Supply Chain Management Policies and Measures	Supply Chain Management
		S3.2.2 Supply Chain Security Assurance and Emergency Plan	Supply Chain Management
		S3.2.3 Significant Risks and Impacts (Supply Chain)	Supply Chain Management
S4 Social Contribution	S4.1 Tax payment status	S4.1.1 Tax Payment Status	Promoting Public Well-being Together
	S4.2 Community Partnerships	S4.2.1 Policies and Measures for Participation in Local Community Building	Promoting Public Well-being Together
		S4.2.2 Contribution to and Impact on the Local Community	Promoting Public Well-being Together
	S4.3 Social Welfare Activities	S4.3.1 Policies and Measures for Participation in Social Welfare Activities	Promoting Public Well-being Together
		S4.3.2 Input and Effectiveness of Participation in Social Welfare Activities	ESG Performance Overview
	S4.4 Response to National Strategies	S4.4.1 Industrial Transformation	Promoting Public Well-being Together
		S4.4.2 Rural Revitalization and Coordinated Regional Development	Promoting Public Well-being Together
		S4.4.4 Industry Characteristics and Performance of Other Social Responsibilities	Promoting Public Well-being Together

Governance Dimension

Tier 1 Indicator	Tier 2 Indicator	Tier 3 Indicator	Corresponding Chapter
G1 Governance Strategies and Organizational Structure	G1.1 Governance Strategies and Processes	G1.1.1 Formulation of Governance Strategies	Corporate Governance
		G1.1.2 Oversight Processes for Governance Strategies	Corporate Governance
		G1.1.3 Approval and Review Processes for Governance Strategies	Corporate Governance
		G1.1.4 Party Building Leadership	Party Building Leadership
	G1.2 Organizational Composition and Functions	G1.2.1 Ownership Responsibilities	Corporate Governance
		G1.2.2 Organizational Structure and Functions of the Board of Directors, Board of Supervisors, and Management Team	Corporate Governance
		G1.2.3 Appointment Procedures and Composition of the Board of Directors, Board of Supervisors, and Management Team	Corporate Governance

Tier 1 Indicator	Tier 2 Indicator	Tier 3 Indicator	Corresponding Chapter
G1 Governance Strategies and Organizational Structure	G1.3 Remuneration Management	G1.3.1 Remuneration Plans for Directors and Supervisors	Corporate Governance
		G1.3.2 Transparency of Board Remuneration	Corporate Governance
		G1.3.3 Rationality of the Remuneration for the Management Team	Corporate Governance
G2 Compliant Governance	G2.1 Internal Control	G2.1.1 Internal Audit	Business Ethics
		G2.1.2 Internal Control Structure, Mechanisms, and Processes	Internal Control and Compliance Management
	G2.2 Integrity Building	G2.2.1 Institutional Norms for Integrity Building	Business Ethics
		G2.2.2 Effectiveness of Integrity Building Measures	Business Ethics
	G2.3 Fair Competition	G2.3.1 Institutional Norms for Fair Competition	Business Ethics
		G2.3.2 Effectiveness of Fair Competition Measures	Business Ethics
G3 Investor Relations Management and Shareholder Rights and Interests	G3.1 Investor Relations Management	G3.1.1 Investor Relations Management Strategy	ESG Management
		G3.1.2 Investor Communication	ESG Management
		G3.1.3 Development of Investor Relations Management Department	ESG Management
	G3.2 Shareholder Rights and Interests	G3.2.1 Shareholders' Meeting Overview	Corporate Governance
		G3.2.2 Shareholder Communication Overview	Corporate Governance
		G3.2.3 Shareholders' Right to Information and Participation in Decision-Making	Corporate Governance
G4 Transparency in Information Disclosure	G4.1 Information Disclosure System	G4.1.1 Financial Information Disclosure	About the Report
		G4.1.2 Non-Financial Information Disclosure	About the Report
G5 Compliant Operations and Risk Management	G4.2 Quality of Information Disclosure	G4.2.1 Regular Supervision, Audit, and Evaluation of All Disclosed Information	Business Ethics
	G5.1 Compliant Operations	G5.1.1 Compliant Operations System	Internal Control and Compliance Management
		G5.1.2 Development status of a Compliance Framework	Internal Control and Compliance Management
		G5.1.3 Specific Processes for Compliance Review Process	Internal Control and Compliance Management
	G5.2 Risk Management	G5.2.1 Risk Identification and Early Warning	Feature 2: Enhanced Risk Prevention and Control
		G5.2.2 Risk Control and Tracking	Feature 2: Enhanced Risk Prevention and Control
		G5.2.3 Risk Reporting and Management	Feature 2: Enhanced Risk Prevention and Control

APPENDIX 4: INDEPENDENT LIMITED ASSURANCE REPORT



德勤华永会计师事务所 (特殊普通合伙)
中国上海市延安东路222号
外滩中心30楼
邮政编码: 200002

Independent Limited Assurance Report

DTT(25)BAR00018

To the Board of Beijing Jingneng Clean Energy Co., Limited:

We have been engaged to perform a limited assurance engagement on selected 2024 Key ESG Indicators (the “Selected Indicators”) in the 2024 Environmental, Social and Government Report (“ESG Report”) prepared by Beijing Jingneng Clean Energy Co., Limited (“Jingneng Clean Energy”).

Subject Matters for Limited Assurance

The subject matters of this assurance engagement include the following Selected Indicators in the 2024 ESG Report:

- Total Nitrogen Oxides (NOx) Emissions
- Total Particulate Matter Emissions
- Discharged of wastewater
- Total Non-Hazardous Waste Volume
- Total Gas Consumption
- Total Gasoline Consumption
- Total Diesel Consumption
- Total Purchased Electricity Consumption
- Scope 1: Direct Greenhouse Gas Emissions
- Scope 2: Indirect Greenhouse Gas Emissions
- Total Annual Number of Workdays Lost Due to Work-Related Injuries
- Total Annual Investment in Safety Production
- Total Full-Time Employees
- Total Male Employees
- Total Female Employees
- Employee Turnover Rate
- Employee Training Coverage Rate
- Total Number of Suppliers
- Public welfare contribution

Our limited assurance engagement is limited to the Selected Indicators in the ESG Report above, and does not extend to information disclosed in the ESG Report that is not included in the “Subject Matters for Limited Assurance”, as well as the 2023 and prior years' KPIs and other information.

Applicable Criteria

The applicable criteria used by Jingneng Clean Energy in the preparation of the Selected Indicators are set out in the Appendix to this report.

Responsibility of Management and Those Charged with Governance

The management of Jingneng Clean Energy is responsible for the preparation of the Selected Indicators in accordance with the applicable criteria. This responsibility includes designing, implementing, and maintaining internal control relevant to the preparation of the Selected Indicators that is free from material misstatement, whether due to fraud or error.

Those charged with governance are responsible for overseeing the reporting process.

Inherent Limitations of Applicable Criteria

We draw attention of the users of this report to the fact that there is no generally accepted evaluation and measurement basis for the preparation of non-financial information, which may affect the comparability of sustainability information between entities and over time.

Our Independence and Quality Management

We have complied with the independence and other ethical requirements of the *International Code of Ethics for Professional Accountants (including International Independence Standards)* issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality, and professional behavior.

Our firm applies *International Standard on Quality Management 1*, which requires the firm to design, implement and operate a system of quality management including policies or procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Our Responsibilities

Our responsibility is to perform limited assurance in accordance with the *International Standard on Assurance Engagements 3000 (Revised) – Assurance Engagements other than Audits or Reviews of Historical Financial Information*. We express assurance conclusions with limited assurance on whether the Selected Indicators in the 2024 ESG Report have been prepared in all material respects in accordance with the applicable criteria.

Assurance Approach

The procedures performed in a limited assurance engagement substantially vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement. Therefore, the level of assurance obtained by limited assurance was less than reasonable assurance. We do not provide reasonable assurance that the Selected Indicators in the ESG Report were disclosed in all material respects in accordance with the applicable criteria. Our assurance included identifying areas where Selected Indicators for 2024 may be materially misstated in the ESG Report, designing, and implementing assurance procedures to address these identified areas, and obtaining evidence accordingly. The assurance procedures we carried out depend on our professional judgment and risk assessments of assurance.

We carried out the following assurance procedures:

- Interviewed Jingneng Clean Energy's management and staff responsible for information collection, consolidation and disclosure to understand the process of reporting in relation to these Selected Indicators;
- Tested relevant supporting documents on a sample basis;
- Performed analytical procedures on Selected Indicators;
- Recalculated Selected Indicators on a sample basis.

Limited Assurance Conclusions

Based on the above work performed and the evidence we have obtained, nothing has come to our attention that would lead us to believe that there is any material misstatement related to the Selected Indicators in Jingneng Clean Energy's 2024 ESG Report prepared in accordance with the applicable criteria.

Use of Independent Limited Assurance Report

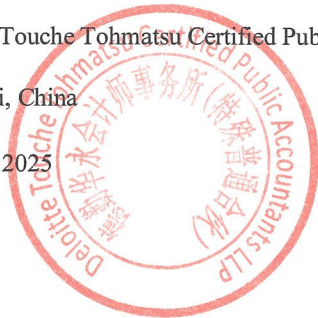
This independent limited assurance report is solely for the purpose of preparing Jingneng Clean Energy's 2024 ESG Report, and is not suitable and cannot be used for other purposes. We do not assume responsibility or accept liability to any other person or third party other than Jingneng Clean Energy's Board of Directors for this report.

This is the English translation of the Independent Limited Assurance Report in Chinese version. If there is any conflict between the translated and Chinese version, the Chinese version shall prevail.

Deloitte Touche Tohmatsu Certified Public Accountants LLP

Shanghai, China

30 April 2025



Appendix

1. **Total Nitrogen Oxides (NOx) Emissions:** The total amount of NOx emitted from the production and operation of Beijing Jingneng Clean Energy Co., Limited and its subsidiaries from January 1, 2024 to December 31, 2024, in tons.
2. **Total Particulate Matter Emissions:** Total amount of particulate matter emitted from the production and operation of Beijing Jingneng Clean Energy Co., Limited and its subsidiaries from January 1, 2024 to December 31, 2024, in tons.
3. **Discharged of wastewater:** Total volume of wastewater discharged from the production and operation of Beijing Jingneng Clean Energy Co., Limited and its subsidiaries from January 1, 2024 to December 31, 2024, in tons.
4. **Total Non-Hazardous Waste Volume:** The total amount of hazardous waste generated from the production and operation of Beijing Jingneng Clean Energy Co., Limited and its subsidiaries from January 1, 2024 to December 31, 2024, with the classification of hazardous waste based on the "National Catalog of Hazardous Waste (2021 Edition)", in tons.
5. **Total Gas Consumption:** The total amount of natural gas consumed by Beijing Jingneng Clean Energy Co., Limited and its subsidiaries for production and operation from January 1, 2024 to December 31, 2024, in MWh, with the coefficients converted with reference to the relevant provisions in the "Comprehensive Energy Consumption Calculation Guidelines" (GB/T 2589-2020) to determine a reasonable conversion coefficient/factor.
6. **Total Gasoline Consumption:** The total amount of gasoline consumed by Beijing Jingneng Clean Energy Co., Limited and its subsidiaries for production and operation from January 1, 2024 to December 31, 2024, in MWh. The coefficients were determined with reference to the relevant provisions in the "General Rules for the Calculation of Comprehensive Energy Consumption" (GB/T 2589-2020) to determine the reasonable conversion coefficients/factors.
7. **Total Diesel Consumption:** The total amount of diesel fuel consumed for production and operation from January 1, 2024 to December 31, 2024 by Beijing Jingneng Clean Energy Co., Limited and its subsidiaries, in MWh. The coefficients were determined with reference to the relevant provisions in the "General Rules for the Calculation of Comprehensive Energy Consumption" (GB/T 2589-2020) to determine the reasonable conversion coefficients/factors.
8. **Total Purchased Electricity Consumption:** The total amount of purchased electricity consumed by Beijing Jingneng Clean Energy Co., Limited and its subsidiaries for the period from January 1, 2024 to December 31, 2024 for production and operation, in MWh.
9. **Scope 1: Direct Greenhouse Gas Emissions:** Direct greenhouse gas emissions generated from the consumption of natural gas, gasoline, diesel and other direct energy sources for production and operation from January 1, 2024 to December 31, 2024 by Beijing Jingneng Clean Energy Co., Limited and its subsidiaries. The coefficients were determined with reference to the relevant provisions in the "Technical Guidelines for the Verification of Greenhouse Gas Emissions from Enterprises - Power Generation Facilities" to determine the reasonable conversion factors/emission factors.
10. **Scope 2: Indirect Greenhouse Gas Emissions:** Indirect greenhouse gas emissions generated from January 1, 2024 to December 31, 2024 from the consumption of purchased electricity for production and operation of Beijing Jingneng Clean Energy Co., Limited and its subsidiaries. The coefficients were determined with reference to the relevant regulations in the "Announcement on the Release of the 2022

- Electricity Carbon Dioxide Emission Factors” issued by the Ministry of Ecology and the Environment to determine a reasonable conversion factor/emission factor.
11. **Total Annual Number of Workdays Lost Due to Work-Related Injuries:** The number of working days lost due to work-related injuries from January 1, 2024 to December 31, 2024 for regular employees of Beijing Jingneng Clean Energy Co., Limited and its subsidiaries. Work-related injuries were determined in accordance with the relevant provisions of the Work Injury Insurance Ordinance.
12. **Total Annual Investment in Safety Production:** The amount of safety inputs to be accrued for the year 2024 as determined by Beijing Jingneng Clean Energy Co., Limited and its subsidiaries in accordance with the “Measures for the Administration of the Extraction and Utilization of Enterprise Safety Production Expenses”.
13. **Total Full-Time Employees:** Total number of employees with formal full-time contracts as of December 31, 2024 at Beijing Jingneng Clean Energy Co., Limited and its subsidiaries.
14. **Total Male Employees:** Total number of male employees with formal full-time contracts as of December 31, 2024 at Beijing Jingneng Clean Energy Co., Limited and its subsidiaries.
15. **Total Female Employees:** Total number of female employees with formal full-time contracts as of December 31, 2024 at Beijing Jingneng Clean Energy Co., Limited and its subsidiaries.
16. **Employee Turnover Rate:** Ratio of the number of employees who voluntarily left the company from January 1, 2024 to December 31, 2024 to the total number of full-time employees as of December 31, 2024 for Beijing Jingneng Clean Energy Co., Limited and its subsidiaries.
17. **Employee Training Coverage Rate:** Ratio of the total number of full-time employees participating in staff training as of December 31, 2024 to the total number of full-time employees as of December 31, 2024 for Beijing Jingneng Clean Energy Co., Limited and its subsidiaries.
18. **Total Number of Suppliers:** Total number of suppliers registered in the supplier system as of December 31, 2024 for the headquarters and all affiliated molecular companies of Beijing Jingneng Clean Energy Co., Limited and its subsidiaries.
19. **Public welfare contribution:** Total funds donated for public welfare activities from January 1, 2024 to December 31, 2024 by Beijing Jingneng Clean Energy Co., Limited and its subsidiaries.

APPENDIX 5 FEEDBACK FORM

Dear Readers,

Thank you for reading Beijing Jingneng Energy Power Co., Ltd. 2024 Environmental, Social and Governance Report. (hereinafter referred to as the “Report”). We sincerely invite you to provide valuable opinions and suggestions on the Report to improve our work.

Please check your choices in the appropriate places for the following questions.

Option	Scoring
1. Your overall satisfaction with the Report	☐ Very poor ☐ Poor ☐ General ☐ Good ☐ Very good
2. The Report fully responds and discloses issues of stakeholders	☐ Very poor ☐ Poor ☐ General ☐ Good ☐ Very good
3. The information and materials in the Report are clear, accurate, and complete	☐ Very poor ☐ Poor ☐ General ☐ Good ☐ Very good
4. The Report comprehensively and accurately reflects Jingneng Clean Energy's significant impact on society and environment.	☐ Very poor ☐ Poor ☐ General ☐ Good ☐ Very good
5. The logical flow, language, and layout of the Report are well-organized and highly readable.	☐ Very poor ☐ Poor ☐ General ☐ Good ☐ Very good

Please provide brief answers to the following questions.

1. Which part of the Report’s content are you most concerned about or satisfied with?

2. Is there any content you care about that the Report hasn’t covered?

3. Do you have other opinions or suggestions regarding the Report?

You can respond to the form by mail, email, or fax, or you can call us directly. We willfully consider your opinions and suggestions.

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