



国家能源集团
CHN ENERGY

龙源电力
LONGYUAN POWER



2024 SUSTAINABILITY REPORT

CHINA LONGYUAN POWER GROUP CORPORATION LIMITED



Global top 500 new energy enterprises

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About This Report

This report is the fourteenth independent report issued by China Longyuan Power Group Corporation Limited. With the deepening of practices and the renewal of ideas, this report has been renamed to be the Sustainability Report from the Environmental, Social and Governance Report since 2024. It is also the first sustainability report issued by the Company.

Scope of organization

This report covers China Longyuan Power Group Corporation and its subsidiaries (consistent with the scope of consolidated financial statement).

Reporting period

This report covers the period from January 1, 2024 to December 31, 2024. In order to enhance its comparability and integrity, some information has been traced backward or forward, as appropriate.

Name description

China Longyuan Power Group Corporation Limited is referred to as “Longyuan Power”, “we/our” and “the Company” in this report.

Source of information

The financial data disclosed herein are from the 2024 Annual Report of China Longyuan Power Group Corporation. Other data are all from Longyuan Power’s formal documents and statistical reports, which have been approved by the Company’s relevant departments and verified by independent third-party institutions. Unless otherwise specified, the monetary unit in this report shall be the RMB.

Quality assurance

We guarantee the completeness, substance, balance, comparability, etc. of the report, which systematically explains Longyuan Power’s concepts, systems, behaviors, and performance in pursuing development, economy, ecology, and society. There are no false records, misleading statements, or significant omissions. We hope to improve the Company’s ESG management level, strengthen stakeholder communication, and promote sustainability of the Company through the release of the report.

Reporting principles

This report follows the reporting principles of “materiality”, “quantification”, and “consistency” in the HKEX Guidelines. We consider rating criteria at home and abroad, the ESG latest trends, and the questionnaires of stakeholders to screen out material issues in response to the “materiality” principle. By establishing an ESG indicator information system covering the Company’s headquarters and subsidiaries, we quantify key disclosure indicators in the ESG reports statistically in response to the “quantification” principle. By referring to the disclosure scope of the Company’s annual reports, we adopt the same data disclosure standard and statistical method to meet the “consistency” principle.

Preparation standards

Shenzhen Stock Exchange Self-Regulatory Guidelines for Listed Companies No. 17 – Sustainability Report (Trial)

The Environmental, Social, and Governance Reporting Guidelines of the Stock Exchange of Hong Kong Limited (the “HKEX Guidelines”)

International Sustainability Standards Board (ISSB) IFRS Sustainability Disclosure Standards

ISO 26000: Guidance on Social Responsibility (2010) of the International Organization for Standardization (ISO)

The GRI Sustainability Reporting Standards (“GRI Standards”)

The 2030 Agenda for Sustainable Development

China’s Corporate Social Responsibility Reporting Guidelines (CASS-ESG 6.0) of the Chinese Academy of Social Sciences

Report access

This report is available in simplified Chinese, traditional Chinese and English, and published in the electronic PDF version. You can read and download it from the HKEX’s website (www.hkexnews.hk), the Shenzhen Stock Exchange’s website (<https://www.szse.cn>), and the Company’s website (<http://www.clypg.com.cn/>). In case of any discrepancy, the simplified Chinese version shall prevail.

Chairman's Statement



In recent years, the global attention to sustainability has been growing steadily, and ESG concepts have become a key guide for corporate development. Faced with an increasingly strict regulatory environment, the Company actively responds to policy guidance, integrates ESG concepts into corporate strategic layout and production operations, and is committed to the forefront of sustainable development in the industry.

In 2024, we paid more attention to the concerns of the market and actively promoted green economic value, social value and environmental value. This year, we were selected into the CCTV 2024 "China Listed Company Pioneer 100" list. Moreover, we also obtained the "Best ESG Information Disclosure Award" and "Best ESG Practice Case Award" on the Hong Kong International ESG List. Additionally, we were included in the Fortune China ESG Influence List, leading the innovation of ESG practices as an industry benchmark.

Planning leads and controlling development opportunities.

We focus on low-carbon transformation and emphasize both scale and quality. In 2024, we have made every effort to expand the investment scale in new energy. The installed capacity of new energy has reached 41.14 million kilowatts, and the proportion of clean energy accounts for 100%. We have actively engaged in the construction of large-scale energy bases and offshore wind power projects. The world's first floating platform integrating wind power and fishery, "CHN Energy Sharing Platform", has been put into operation. In collaboration with multiple industries, we will steadily advance the demonstration of a new type of multi-energy complementary power system, and inject strong impetus into the green transformation of the energy structure.

Driving by innovation and empowering the future with technology.

We have created a new energy scientific innovation R&D platform, and the ability to change and innovation has been significantly improved. In 2024, we launched the implementation of the "164" digital transformation and upgrading plan, expanding the world's largest digital platform for new energy production. Established the innovation joint research institute in collaboration with Xi'an Jiaotong University, we added 5 internationally leading scientific and technological achievements. Relying on the "Longteng No.1" new energy intelligent management platform to achieve full process digital control, we were selected as a pilot enterprise for digital transformation of state-owned enterprises by the State-owned Assets Supervision and Administration Commission.

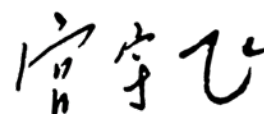
Creating green value through low-carbon development.

We adhere to the sustainability concept of "lucid waters and lush mountains are invaluable assets", and integrate ecological environment protection into the entire process of project construction and operation. Actively addressing climate change, we have prevented and defused extreme climate risks, and effectively respond to multiple typhoons like "Capricorn". In 2024, "zero-waste enterprises" the demonstration project had achieved initial results, and the experience of photovoltaic desertification control had made a brilliant appearance at the United Nations Conference on Desertification, contributing "Longyuan wisdom" to global ecological governance and setting a benchmark for green development in the new energy industry.

Gathering development momentum with people oriented.

We insist on building a high-quality talent team, adding 1 great national craftsman and 2 CHN craftsmen. The proportion of young cadres and technological talents has increased to 31% and 13% respectively, and the structure of the talent team has been significantly optimized. We continuously build a specialized talent training system for skills and technology, and polish the training brands of "Craftsman Training Camp" and "Expert Lecture Hall", providing solid talent support for the sustainable development of enterprises.

Looking ahead, we will continue to focus on the "12556" working concepts, fully promote the integration of ESG concepts into the Company's development strategy and daily operations with a higher position and stronger determination, and work together in the economic, environmental, and social aspects to promote the Company's high-quality and sustainable development.



Secretary of Party Committee and
chairman of Longyuan Power

About Longyuan Power

Founded in 1993, China Longyuan Power Group Corporation Limited is the earliest specialized company to develop wind power and leader in exploring wind power fields such as offshore, low wind velocity and high altitude in China. It took the lead in "going global" in the whole industry chain of wind power in China and keeps leading industry development and technological advance. In 2009, it was listed on the Main Board of the Hong Kong Stock Exchange. In 2022, it was listed on the A-share market, becoming a company listed in both Shenzhen and Hong Kong stock markets.

Longyuan Power owns diverse energy projects, such as wind, photovoltaic (PV), tidal, geothermal and etc. Its business expands in 32 provinces and municipalities in China as well as foreign countries, such as South Africa, Canada, and Ukraine, and makes positive contributions to the green low-carbon energy development and use of renewable energy worldwide.

As of the end of December 2024, the Company's consolidated installed capacity amounted to 41,143.20 MW, including 30,408.77 MW of wind power, 10,698.33 MW of photovoltaic, and 36.10 MW of other renewable energy. Its revenue and assets totaled RMB 37.07 billion and RMB 257.11 billion, respectively.



Mission:

To devote to clean energy for
a beautiful China

Vision:

To become a world-class new
energy company with global
competitiveness

Core Values:

Endeavor, efficiency,
innovation, harmony

RMB **257.11** billion
Total assets*

41,143.20 MW
Total consolidated
installed capacity

RMB **37.07** billion
Total revenue

30,408.77 MW
Wind Power
installed capacity

RMB **0.7535** per share
Earnings per share

100%
Proportion of renewable
energy in the total consolidated
installed capacity

* : The financial data in this report prepared in accordance with IFRSs (International Financial Reporting Standards) issued by IASB (International Accounting Standards Board).




Honors of 2024





2024 Fortune
China Impact List




“China ESG Listed Companies Pioneer
100 (2024)” List of China Media Group
64th place



“Central enterprise ESG Pioneer
100 Index” of SASAC
34th place




Hong Kong International ESG
Alliance Best Information Disclosure and
Best Practice





“New Energy+” Integrated Development
Project in Hailing Island, Guangdong
Province has been awarded as an excellent
ESG case for Chinese enterprises





China's Wind Power Installed Capacity
of 500 million KW · Outstanding
Contribution Enterprise awarded by
Beijing International Wind Energy
Association




Zhejiang Wenling Tidal Power Station
was rated as the witness of the “Republic
Mark” announced by the National
Cultural Heritage Administration and
the Ministry of Industry and Information
Technology, and a typical case of national
industrial heritage protection



Longyuan Yongxiu Household Distributed
Photovoltaic Project in Jiujiang, Jiangxi
Province has won the national new quality
productivity benchmark award



Longyuan Power “Research on the
Application of New Energy Cloud Data
Intelligence Integration Based on Dual
Cloud Fusion Architecture” has been
selected into the top ten typical cases of
industrial digital transformation in 2024



The case of “Longyuan Carbon Asset
Management Practice” has won the
“2024 Excellence in Management
Award” from Harvard Business Review



Data of 2024

Environment



57.59 million tons

Carbon dioxide emissions reduced
by renewable power generation



68,383.22 GWh

Renewable power generation



90.52%

Proportion of power generated
from renewable energy

Social



RMB **56.63** million

Expenditure on training



RMB **523** million

Research and development investment



RMB **36.88** million

Total donations

Governance



33.33%

Proportion of female
independent directors



22,749 person-time




Legal compliance training



0 case

Number of corruption
proceedings

Our Actions

Undertakings in 2023		► Fulfillment of undertakings in 2024
<div>Renewable energy opportunities</div> <div></div>	<p>We adhere to the strategy of advancing both onshore and offshore developments, creating a highland for new energy development. We persist in innovation through technology and business models and focus on multi-scenario integrated development, building a fusion-style new natural economy. We intensify our efforts in integrated energy development and explore innovative paths for collaborative and win-win cooperation.</p>	<p>In 2024, the installed capacity of new energy reached 41.1432 million KW, and we obtained the development quota of 14,720 MW for new energy projects. The world's first floating wind-fishery integration project "CHN Energy Sharing Platform" created a new natural economic model of "green electricity + blue granary." 1.21 million KW/2.42 million kWh of energy storage projects were put into operation, intensifying the efforts for the consumption of clean energy.</p>
<div>Response to climate change</div> <div></div>	<p>Establishing a carbon emission management system for thermal power plants, carry out carbon emission assessments as required. Carbon emission intensity is incorporated into the binding indicators for performance assessment of thermal power enterprises and corporate leaders, promoting the shift from dual control of energy consumption to dual control of carbon emissions.</p>	<p>Thermal power plant strictly followed the carbon emission management system, and carbon emission intensity was incorporated into the indicators for annual performance assessment. Tianshenggang Power Plant completed the energy-saving motor transformation of the coal mill, and the Liaoning Dandong Ocean Red project (factory) area completed the trial use of new energy vehicles.</p>
<div>Ecological conservation</div> <div></div>	<p>In the early planning stages of projects, we conduct biodiversity surveys for site selection. During construction, we strictly adhere to the "three-simultaneous" requirement, regularly conduct ecological environment monitoring, and hazard investigation and rectification. We enhance biodiversity conservation publicity and advocate the concept of respecting, complying with, and protecting nature.</p>	<p>In the feasibility study report of the project, the biodiversity survey within the project site selection scope was separately documented, and the "three simultaneous" requirements were strictly followed during the construction process. We built China's first "large-scale desert photovoltaic base scientific sand prevention and control monitoring station" in Tengger Base in Ningxia, and carried out bird monitoring in project areas such as Guizhou, Jiangsu and Tianjin.</p>

Undertakings in 2023

» Fulfillment of undertakings in 2024

Scientific and technological innovation



We continue to increase R&D investment, improve the scientific and technological innovation system, strengthen national-level R&D centers, focus on long-duration energy storage, deep-sea technology, and large-scale bases to intensify research efforts, and promote the transformation of achievements into new productivity. We deepen digital empowerment, increase data aggregation, strengthen data asset management, expand data application scenarios, and advance the digital transformation of management.

Our annual R&D investment was RMB 523 million. The increase compared to last year is 120%. The first domestically produced independent offshore wind power comprehensive testing platform, "Guoneng Haice No.1", achieved its maiden voyage. The average online rate of nearly 74,000 videos was over 98%, improving the accuracy of personnel and equipment control, and we optimized and added 66 warning and image recognition models with an accuracy rate of over 87%, and created the "Longteng No.1" new energy intelligent management platform.

Social contribution



We further create distinctive projects that highlight our themes and integrate with our industry, promoting industrial revitalization and actively fulfilling our social responsibilities. Overseas, we focus on key issues in local communities, conduct public welfare activities, and create a better life with community.

In 2024, we invested RMB 18 million in targeted assistance in Youyu, and implemented 11 designated assistance projects focusing on industry, education, ecology, talent, rural areas, and other aspects. We had 2,175 participates in volunteer activities.

Corporate governance



We systematically manage five risks in international operations, market competition, scientific and technological innovation, policies, and compliance. We strengthen the rigid constraints of rules and regulations, enhance business review and approval processes, gradually conduct compliance and anti-corruption training for all employees, and improve the level of legal and compliant management for listed companies.

We closely monitored the five major risk monitoring work and reported progress to the board of directors every quarter. We developed the "Key Points of Compliance for Rules and Regulations", established an intelligent contract system, and implemented full cycle management of business activities. We had a total of 22,749 participates in compliance training.

ESG Governance

Longyuan Power has always integrated the concept of sustainability into its company strategy and daily operations. By improving its ESG governance structure, updating its ESG strategic planning, timely identifying and resolving ESG risks, conducting multi-dimensional practices, and continuously promoting the deep integration of ESG and business, we constructed a multi-level communication matrix to comprehensively demonstrate the achievements of ESG practices.

Statement of the Board of Directors

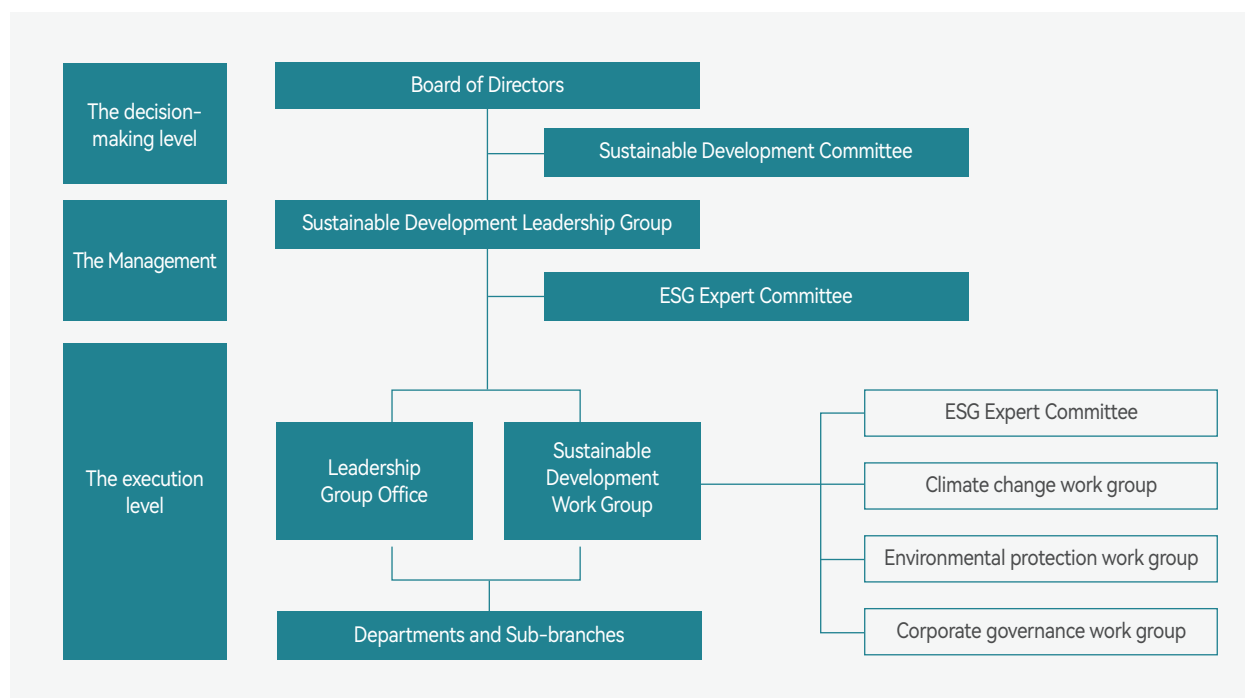
The Board of Directors is the body for ESG decision-making management and supervision. It takes charge of ESG strategic planning, risk management, and the decision-making and arrangement of major issues. The Sustainable Development Committee, which is under the Board of Directors, assists the board in supervising and managing ESG affairs, provides recommendations to it, and offers professional support for ESG management. The Board of Directors attaches great importance to the management of ESG performance and supervises the achievement of goals on an annual basis. The key performance assessment plan for the chairman and the management in 2024 includes a total of 49 indicators in six categories. Among them, the total score of ESG-related indicators is 87 points, accounting for approximately 45.79% of the basic assessment score. In addition, there are ESG-related points for addition and deduction, ranging from -8 to +5 points. If the responsible personnel fail to reach the assessment indicators, or there are matters subject to a one-vote veto or violations of regulations and disciplines, the company will take measures such as deducting performance pay.



ESG governance system

Longyuan Power attaches great importance to the construction of ESG governance system, continuously improves the ESG management structure of “top-down governance structure with three-level linkage and professional support”, clarifies the responsibilities of each level, and ensures the effective promotion of ESG work. The Company has established the Sustainable Development Leadership Group, with the chairman as the group leader, the general manager as the deputy group leader, and the Company’s management as members, to coordinate and promote the implementation of ESG strategies and effectively implement the decisions of the Board of Directors. We continuously leverage the role of an ESG Expert Committee composed of external experts to provide professional guidance in key areas such as climate change, environmental protection, social contribution, corporate governance, ESG strategy, and communication for the Company.

In 2024, we set up working groups under the Sustainable Development Leadership Group, including four special working groups on climate change, environmental protection, social contribution, and corporate governance, responsible for ESG issue management, risk identification, and performance improvement in relevant fields. As the main body of ESG practice, subsidiaries are responsible for the implementation of ESG management requirements in business operations, and their performance is included in performance evaluation. Clear allocation of responsibilities and efficient collaboration mechanisms provide solid guarantees for the Company to achieve sustainable development goals.



ESG Governance Structure of Longyuan Power

ESG planning and implementing

The Company updated the “Three-Year Plan for ESG Development (2023-2025)”, strengthened the systematization of ESG construction, focused on low-carbon development, ecological protection, technological innovation and other central work, further clarified the overall framework, and made the governance ideas clearer.

In 2024, the Company adhered to the annual goal of integrating ESG concepts into its business, and has prepared and issued the first ESG Work Guidance Manual, gradually incorporating ESG requirements into management systems and daily work. Biodiversity surveys and bird impact monitoring of project sites were included in the Company's annual ecological and environmental protection key tasks. For the first time, ESG management criteria were added to the supplier management measures, and ESG evaluations of major suppliers were explored. We also incorporated ESG indicator requirements into the design phases of some projects.


Longyuan Power continued to explore and refine practical highlights. Our practical cases were recognized by authoritative institutions and won 14 awards. We supported the publication of the first domestic sustainability report guide for the new energy industry, the “China Enterprise Sustainability Report Guide (CASS-ESG 6.0) for the New Energy Power Generation Industry” and the ESG management case has been awarded as one of the top ten ESG cases for state-owned listed enterprises by the State-owned Assets Supervision and Administration Commission. Moreover, the microfilm “Me and Little Spoon” with the theme of “Protecting Biodiversity is Protecting Humanity” won the second prize of the 7th Central Enterprise Excellent Story and the 1st AIGC Creative Communication Works Award by the State-owned Assets Supervision and Administration Commission. The bird protection of the Rudong Wind Power Project in Jiangsu Province has been selected as a high-quality development case of renewable energy during the Summer Davos Forum.

Communication with stakeholders

We highly stress good communication with all stakeholders. Through multiple channels, such as roadshows, forums, summits, the official website, and we media, the Company has established a normalized communication mechanism with the government and regulators, investors, employees, customers, industries, experts and scholars, and community and media. During the reporting period, 143 investor exchange meetings were organized, with nearly 1,000 attendees. The Company held its first ESG reverse roadshow event, engaging in face-to-face communication with investors on sustainable development issues such as climate change, social contribution, and employee development. The event actively responded to expectations and demands from all parties and disseminated the latest ESG practices of the Company.



Longyuan Power held the 2024 “Towards the Wind” reverse roadshow event

Stakeholders	Expectations and demands	Communication channels and methods
 Government and regulators	<ul style="list-style-type: none"> • Tax • Employment • Compliant operations 	<ul style="list-style-type: none"> • Supervision and inspection • Work reports • Information disclosure
 Investors	<ul style="list-style-type: none"> • Return on investment • Corporate governance • Compliant operations 	<ul style="list-style-type: none"> • Information disclosure • Results roadshow • General meetings • Online communication • Reverse roadshow • Roadshow
 Employees	<ul style="list-style-type: none"> • Legitimate rights and benefits • Occupational health and safety • Smooth development channels 	<ul style="list-style-type: none"> • Employee representative conference • Employee complaint channels • Employee symposiums • Work-life balance
 Suppliers and partners	<ul style="list-style-type: none"> • Public procurement • Contract performance • Sustainable supply chain management • Win-win cooperation 	<ul style="list-style-type: none"> • Public procurement platform • Cooperation agreement • Regular assessment • Investigate and research • Consultation for opinions • Complaint hotline
 Customers	<ul style="list-style-type: none"> • Green and clean products • Compliance with contracts • Corruption-free business environment 	<ul style="list-style-type: none"> • Agreements and contracts • Customer visits • Regular assessment
 Industries, experts, and scholars	<ul style="list-style-type: none"> • Industry leading • Industry sharing 	<ul style="list-style-type: none"> • Strategic cooperation • Expert Committee • Meetings and forums • Formulation of standards • Local employment • Open day
 Communities and media	<ul style="list-style-type: none"> • Public welfare • Promotion of sustainability • Information transparency 	<ul style="list-style-type: none"> • Rural revitalization • Charity donation • Community development • Official website or WeChat official account

Identification of dual importance issues

Longyuan Power strictly complies with regulatory requirements for identifying and disclosing dual importance issues, attaches great importance to the impact of various issues on the Company's financial and the Company's performance on various issues on the economic, social and environment. According to the process of issue identification, evaluation and confirmation, the work of dual importance issue identification was carried out to help the enterprise move forward steadily.

Issue identification

Based on the regulatory guidelines on information disclosure for sustainability issued by the Hong Kong Stock Exchange and the Shenzhen Stock Exchange, and in combination with key issues such as industry related policies and regulations, ESG capital market rating requirements, industry development trends, and company development strategies. We fully considering foresight, relevance and attention, identified 24 issues.

Issue evaluation

We distributed issue importance questionnaires to stakeholders and internal management of the Company, comprehensively evaluated various issues in the issue library from the perspectives of impact importance and financial importance, and ultimately determined the importance distribution of the issues.

Issue confirmation

The Company's Sustainability committee reviewed and confirmed the annual issue matrix, and we identified 24 issues that were of impact importance. In the report, the four pillars of governance, strategy, impact, risk and opportunity management, indicators and goals are adopted to disclose four financially significant issues, including climate change, environmental compliance management, innovation driven, and renewable energy development.



Issues in 2024

Environment (7 items)

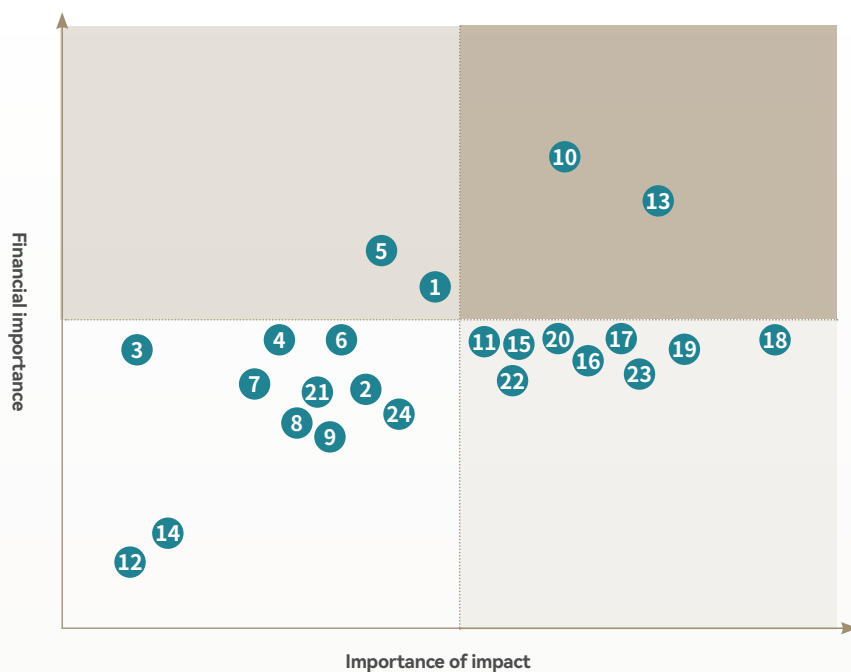
- | | |
|---|---------------------------------------|
| 1 Response to climate change | 5 Environmental compliance management |
| 2 Pollutant emissions | 6 Resource utilization |
| 3 Waste treatment | 7 Circular economy |
| 4 Ecosystem and Biodiversity Conservation | |

Social (9 items)

- | | | |
|------------------------|--|-------------------------------|
| 8 Rural revitalization | 11 Supply chain safety | 14 Data Security |
| 9 Social contribution | 12 Equal treatment to small and medium-sized enterprises | 15 Employee development |
| 10 Innovation driven | 13 Development of renewable energy | 16 Employee rights protection |

Governance (8 items)

- | | | |
|---------------------------|------------------------------------|--|
| 17 Corporate governance | 20 Risk and opportunity management | 23 Anti commercial bribery and anti-corruption |
| 18 ESG management | 21 Due diligence | 24 Anti unfair competition |
| 19 Compliant risk control | 22 Stakeholder communication | |



Matrix diagram for identifying dual importance issues





RESPONSIBILITY:

Consolidate the Governance

Corporate governance is the cornerstone of stable operation and long-term development of enterprises. We unswervingly deepen the corporate reform, constantly optimize the corporate governance structure, improve the internal management system, build a comprehensive compliance management system, enhance the ability to control risks, abide by business ethics, take honest management as the cornerstone, and establish a trustworthy corporate image.

Standardize corporate governance

Convene **4**
general meetings

Convene **12**
board meetings

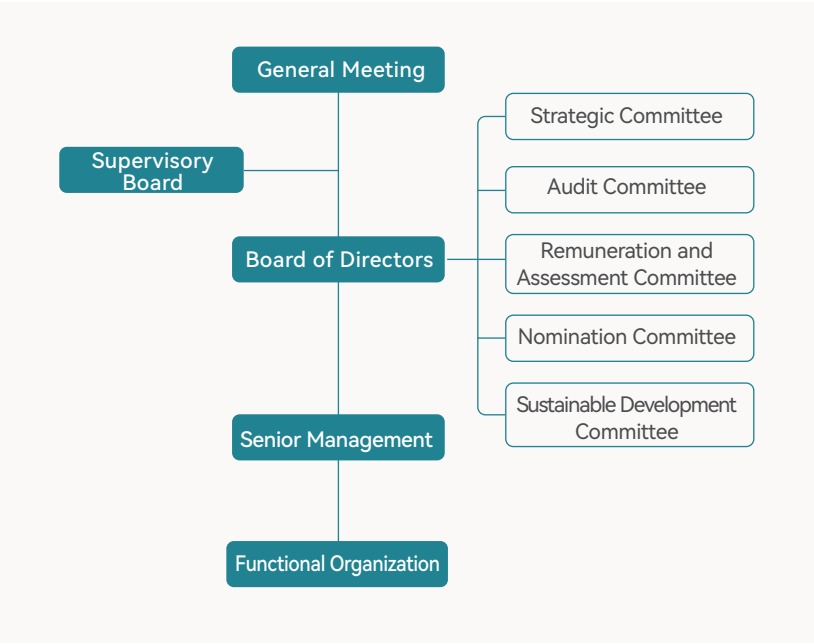
Convene **17**
meetings of special
committees of the Board of Directors

We strictly abide by the “Company Law of the People’s Republic of China”, the “Securities Law of the People’s Republic of China”, and domestic and foreign regulatory requirements, optimize the governance structure, strengthen the operation of the board of directors, deepen investor exchanges, take multiple measures to protect the rights and interests of shareholders, and promote the realization of value creation.

Operation of the Board of Directors

The Company actively promotes the diversification of the Board of Directors. In 2024, we successfully introduced state-owned insurance company RUI Life Insurance as an active shareholder which appointed non-executive directors, effectively improving the corporate governance structure and enhancing the professionalism and diversity of the Board of Directors. We continuously improved the system construction of the Board of Directors, formulated the “Management Measures for the Standardized Operation of the Board of Directors (Trial)” to regulate the board’s operation and management; revised the “Management Measures for Board Authorization” to enhance the enforceability of the system; amended the “Independent Director Work System” to ensure independence.

During the reporting period, training on the performance of directors, supervisors, and senior executives was conducted around the new Company Law to enhance their awareness of responsibility and risk. We organized 2 collective investigations and 11 personalized investigations by the Board of Directors and supervisors to promote communication and exchange between the directors and supervisors and various levels, and enable them to gain a deeper understanding of the actual operation of the Company



Corporate Governance Structure

Protection of shareholder rights and interests

The Company highly valued the rights and interests of shareholder, continuously improved the capital market information feedback mechanism, fully communicates and exchanges with shareholders and potential investors, invited minority shareholders to attend the general meetings, and effectively protects the rights and interests of minority shareholders.

In 2024, the Company organized a result briefing to timely, accurately, and completely convey performance information and actively respond to market attention. We intensified voluntary disclosure efforts, and proactively increased the disclosure of business data such as photovoltaic power generation in quarterly and interim reports, enhancing the transparency of the Company's operations. We maintained close communication with investors through multiple channels such as brokerage strategy meetings, online and offline investor surveys, Shenzhen Stock Exchange Interactive Easy, and investor telephone hotlines, and maintained a warm high-frequency investment interaction mode. The Company's leadership led a team to conduct domestic and international roadshows, fully communicated with shareholders, and boosted investor confidence. We also held the "Towards the Wind" reverse roadshow, inviting 44 representatives from investment institutions to visit and exchange at Longyuan Power's Hailing Island wind power project in Guangdong, which received high recognition from investors for the Company's long-term investment value.

471

cumulative disclosure announcements throughout the year

123

independent research reports on Longyuan published by investment bank analysts

100%

positive rating



Briefing on Results and ESG Report Release Conference

Contact Information for Investor

Investor hotline:(86)10-6388 8199

Investor fax:(86)10-6388 7780

Email:lyir@ceic.com

Strengthen compliant risk control

The Company is firmly committed to the goal of building a world-class new energy legal enterprise, focusing on risk control and compliance. We build a comprehensive compliance management system to support the development of our main business, continuously optimize our internal control and risk supervision system, strengthen internal audit and supervision and inspection, enhance our risk management capabilities in all aspects, and safeguard the steady development of our enterprise.

Compliant operations

The Company established a “1+N+X” compliance management system^{*}, set up a compliance management committee and a chief compliance officer, formulated compliance management systems such as the “Implementation Measures for Compliance Risk Control (Trial)”, and refined the compliance processes and action guidelines for key businesses such as project development and engineering construction. We built a violation reporting platform on the Company’s internal and external networks to smooth the channels for reporting compliance risks and strengthen the supervision mechanisms. We innovated the construction of an intelligent contract management system and compliance management platform, set a risk database, and achieved regular monitoring of matters such as license processing and administrative penalties, with timely reminders and rapid improvement.

Risk control

The Company has established a comprehensive and efficient risk management and control system, clarifying the work division of the board of directors in decision-making and supervision, the audit committee in assisting the board of directors, the management in promotion, the audit department in centralized management, and each department, subsidiaries and branches in implementation.. The Company timely tracks and monitors the “Longyuan Power 2024 Major Risk Assessment Results” and related major risk early warning indicators every quarter, dynamically evaluates the Company’s major risks, and reports to the Board of Directors to promote dynamic and refined risk management and control. The Company relies on the risk management organization of modern corporate governance structure, focuses on the supervision and inspection of key areas, forms the economic responsibility audit as the main body, and develops and implements the three-year rolling plan for full coverage of the audit. We regularly conduct special audits of overseas business, rural revitalization, and operation of large funds every year. In 2024, the Company timely updated the internal control risk management matrix and evaluation criteria, and completed the “1+N” internal control risk management manual and 14 types of key business areas management manual.

^{*} “1+N+X” Compliance Management System: Compliance management digital platform + certain basic and special compliance management systems + certain compliance risk guidelines for key areas

Abide by business ethics

Business ethics is fundamental to the sustainable development of enterprises. From internal management, market competition to cooperation, Longyuan Power strictly adheres to ethical principles. The Company maintains a zero tolerance attitude towards violations of business ethics and continues to create a culture of integrity and transparency in business ethics.

Anti-bribery and anti-corruption

The Company attaches great importance to combating commercial bribery and corruption. We carried out centralized rectification and daily warning education, as well as deep integration of supervision and inspection in an orderly manner in accordance with the “Discipline Inspection Commission Supervision Work Measures” and the “Guidelines for Clean Engineering Construction”. The Company conducted anti-commercial bribery and anti-corruption training through various forms such as organizing “Monthly Education” and warning education conferences. We innovated training methods, created a integrity “IP image” and used information platforms to conduct online training to expand the coverage and enhance employees’ awareness of integrity and legal literacy. In 2024, a total of 9 directors, 1,222 middle and senior managers, and 6,148 grassroots employees participated in business ethics related training. No business ethics violations throughout the year.

The Company strictly implement the “Management and Disposal Measures for Letters, Visits, Reports, and Problem Clues of China Longyuan Power Group Corporation Limited”, and employees can report through public email addresses. We have established management and disposal methods for problem leads, and deal with violations in strict accordance with regulations. At the same time, the Company establishes a whistleblower protection system to prohibit the disclosure of whistleblowers’ personal information and protect the legitimate rights and interests of whistleblowers.

Anti-unfair competition

Longyuan Power strictly abides by relevant laws and regulations such as the Anti Unfair Competition Law of the People’s Republic of China, and strive to maintaining a fair and orderly market environment. Any form of unfair competition behavior is strictly prohibited, including but not limited to false advertising, infringement of trade secrets, etc. In market competition, the Company enhances its competitiveness through technological innovation, efficient operation, and high-quality service, participates in the formulation of industry standards to promote industry development, strengthens employee training and education, and ensures that employees establish an awareness of anti-unfair competition.





GREEN: Dedicate to Clean Energy

Longyuan Power has always been committed to leading energy transformation and ensuring sustainable energy supply, actively participating in the process of promoting energy transformation. We rely on the advantages of integration and specialization, with a focus on the large-scale development of onshore wind and photovoltaic bases and offshore wind power. We take diversified coordination, innovation, and excellence as the direction, and promote the high-quality development of new energy through various methods and types.

Expand green power

As a pioneer and leader in the field of new energy, we actively grasp the development opportunities of new energy and consolidate the leading position in the industry. We focus on the large-scale and diversified development of new energy projects, the quality of engineering construction, the stability of production and operation, and continue to make efforts to deliver stable, high-quality and clean electricity for users, and fully meet the social demand for electricity.

Governance

We adhere to compliant development and construction of projects, onshore wind and photovoltaic bases, and large-scale development of offshore wind power. In accordance with the “14th Five Year Plan” development strategy, the Company formulated an annual plan for the development and production of new energy projects at the beginning of the year. Under the leadership of the management team and with the coordinated efforts in project development, engineering construction, production and operation, we ensure that development management is compliant and orderly.

New energy project development

Management Measures for Investment Project Approval (Trial)
Implementation Rules for Pre-development Process and Responsibility Division of New Energy Projects
Implementation Rules for Wind Farm Site Selection
Implementation Rules for Feasibility Study Report Compilation of Wind Power Projects
.....

Engineering project construction

Regulations on Engineering Construction Management
Management Measures for Overseas Project Engineering Construction
Management Measures for Safety, Health, Environment and Civilized Construction in Engineering Construction
Management Measures for Safety Risk Control in Engineering Construction (Trial)
Standard for Management of Safety Construction Work Permits in Construction Projects
.....

Project production and operation

Management Measures for Digital Production Systems and Equipment (Trial)
Management Measures for Wind Farm Renovation and Upgrading
Management Measures for Equipment Defects
Regulations on Production Management (Trial)
.....

Strategy

We attach great importance to the entire lifecycle management of projects, from new energy project development, project engineering construction to power production and operation. Through rigorous control throughout the entire process, we ensure stable output of electricity.

Consolidate development advantages

The Company plays the role of the main force of new energy and adheres to the principle of balancing scale development and quality. We made every effort to promote the “desert, Gobi and desertification land” wind and photovoltaic base project, accelerated the large-scale development of offshore projects, and obtained a quota of new energy of 14,720 MW in 2024. We efficiently completed the injection of 2,030 MW of new energy assets, making the installed capacity of new energy reach 41,143.20 MW.

The Company vigorously promotes the “new energy+” model, actively explores the integration of renewable energy with multiple industries, expands the application scenarios of new energy, and improves the utilization efficiency of unit resources. In Fujian, “CHN Energy Sharing Platform” has achieved the integration of wind power and fishery. The demonstration base of “photovoltaic power generation + cash crops” has been built in the coal mining subsidence area in Heilongjiang. The shared energy storage power station has been put into operation in Jiangsu. Moreover, the hydrogen-ammonia-methanol integration project in Jilin is being promoted. These projects have helped the Company to achieve diversified, coordinated innovation and excellence.

14,720^{MW}

Obtained a quota of new energy

7,480.66^{MW}

Newly-added installed capacity

- The power supply plan for Badain Jaran Base in Gansu Province has been successfully approved
- Successfully won the bid for Fujian Fuding B-1 project 700MW offshore wind power project
- Ningxia Tengger Base 1 million KW photovoltaic project go into operation

Case: | Wujia wind power project: New energy breakthrough in high altitude

As an important energy base, Xinjiang has abundant solar and wind energy resources, and in recent years, it has accelerated the construction of a new type of power system based on its advantages. The Wujia wind power project is located in the core area of the Pamir Plateau, at an altitude of 2800–3300 meters. The first batch of 20 units were connected to the grid for power generation in 2024, with a planned installed capacity of 38 units and an annual power generation of 540 million kWh. This project rewrites the concept that southern Xinjiang is not suitable for wind power development and sets an example for high-altitude wind power development.

**Case: | Green energy + blue granary: CHN Energy Sharing Platform harvests first batch of aquatic products**

CHN Energy Sharing Platform is an innovative achievement in the integrated design of deep-sea floating wind power and fishery aquaculture, located in the Nanri Island National Marine Ranch Demonstration Zone in Putian. The platform enjoys excellent water quality and is equipped with an integrated monitoring system to monitor and collect real-time data from equipment such as fans and aquaculture. During the reporting period, the first batch of 10,000 large yellow croaker fry were expected to have an output of 4,500 kilograms, successfully implementing the concept of “power generation above water and fish farming underwater” and the innovative model of “green energy + blue granary”, which is effectively promoting the deep integration of wind and fishing.



Building quality engineering

The Company strengthens engineering quality management and strives for excellence to create high-quality projects. We strengthen the comparison and demonstration of multiple schemes, accelerate design optimization through production and operation data, and promote the application of new technologies, processes, equipment, materials, and processes; strictly implement the standard process manual, utilize the equipment manufacturing control platform to improve the quality and efficiency of supervision, and build high-quality projects with “two highs and one low”^{*}. In 2024, the Company compiled the “Guidelines for Preparing Quality Excellence Planning (for new energy engineering)” to provide the industry with a systematic, comprehensive and practical guide to help improve the quality of engineering and create excellent engineering.



Longyuan Haijing Salt-PV Complementary "Green + Smart" Project has been appraised by the China Electric Power Construction Enterprise Association (CEPCA) and has reached the international leading level

Stable electricity production

With digital and intelligent enabling production and operation, the Company has steadily improved equipment stability and power generation efficiency by strengthening analysis and early warning, concentrating on carrying out equipment deep maintenance, and promoting unit life extension. Focusing on frequent equipment failures, the Company set up three tracks of fault warning, image recognition, and power prediction. We continuously optimized the warning models to improve the accuracy of warnings, increased the application of intelligent image recognition models, and completed the development of 16 image recognition models for issues like photovoltaic hot spots and main transformer oil leakage, with an average image recognition accuracy rate of 87.2%. The Company strengthened the benchmarking analysis of key equipment data, rely on “data inspection” to achieve “predictive maintenance”, solved the problem of interrupted long-term operation of equipment, and further enhanced the proportion of continuous operation units. The proportion of units that operate for 365 days in a long cycle reaches 59.7%. We also accelerated the renovation and upgrading of old wind farms, constantly carry out unit life extension work to ensure the efficient and long-term operation.

Case: | Longyuan Power realized the industry's first real-time safety warning for wind turbines

In 2024, Longyuan Power Engineering Technology Company achieved the efficient operation mode of real time analysis, real time notification, and real time closed-loop of wind turbine safety warning information for the first time in the industry, ensuring the safe and stable operation of equipment. The successful launch of the real-time monitoring and warning information notification function for hidden dangers in the operation of wind turbines is another powerful measure taken by Longyuan Power to address safety production risks and stabilize power supply, adding a digital barrier to the stable operation of wind turbines.

^{*} “two highs and one low” high quality projects: projects with high quality, high speed, and low cost

Risk and opportunity management

We developed targeted response strategies for different types of risks, effectively reducing the impact of risks on power supply.

Industry competition

The current competition pattern in the new energy industry continues to deepen, and some regions have gradually abolished traditional competitive allocation models and instead constructed an indicator allocation system with market-oriented trading mechanisms as the core, integrating and strengthening industrial synergy, thermal power flexibility upgrading, and energy supply guarantee incentives and other diversified conditions. Traditional energy companies are transforming and entering the new energy sector with strong momentum, leading to increasingly intense market competition. The Company firmly grasps the “two key points” of large base and offshore projects, steadily promotes diversified projects such as hydrogen based energy, new energy+ industry, and comprehensive energy development, coordinates the relationship between scale and efficiency, and enhances competitive advantages.

Power grid consumption

During the “14th Five Year Plan” period, there was a significant increase in the scale of grid connected new energy, but the improvement of system regulation capability was relatively slow. The wind and photovoltaic power base, which mainly relies on ultra-high voltage transmission, is under continuous construction, but the construction progress of the transmission channel is relatively lagging behind, which poses certain risks in the consumption aspect of the large base project. In this regard, the Company further strengthens communication and cooperation with government regulatory departments and power grid dispatch based on the different characteristics and situations of each region, actively expands the consumption channels of new energy, strives to obtain more favorable policy support and larger power generation space, and actively promotes the optimization of local power grid structure to better adapt to the needs of new energy development.

Safe production

As the operating years of the wind farm increase, early put into operation equipment gradually exposes similar problems such as electrical component damage, reduction of cable insulation, and aging sealing rings, posing certain safety risks. To cope with the risk of equipment aging, the Company strengthens equipment governance by enhancing equipment monitoring, status assessment, point inspection, and intelligent monitoring to timely detect abnormalities and hidden dangers. At the same time, the equipment system is optimized, and problems are solved through thematic analysis and technical breakthroughs. Standardized unit maintenance management, and priority maintenance arrangements and full process management for key equipment are all aimed at ensuring the stability and reliability of equipment operation.

Indicators and objectives

The Company will continue to focus on both sides of the scale and efficiency to ensure the realization of planning objectives. Unswervingly deepen the scale of development, build two types of new energy bases in the northwest sand desert and the Southeast Sea, actively and steadily promote the diversified collaborative layout, and give full play to the functions of listed companies. Deepen efficiency management, take the market as the guide, integrate efficiency thinking into the entire process of development, construction, and operation management. Adhering to the efficiency management concept of “plan profit beforehand, manage profit midway, deliver profit ultimately”, the Company comprehensively implements measures to cope with the comprehensive entry of new energy into the market and create an upgraded version of improving quality and efficiency.

5,000 MW

will be put into operation in 2025

Indicator	Unit	Data in 2024
Newly-added new energy development quota	MW	14,720
Newly-added installed capacity	MW	7,480.66
Total installed capacity	MW	41,143.20
Installed capacity of wind power	MW	30,408.77
Installed capacity of photovoltaic	MW	10,698.33
Installed capacity of other renewable energy	MW	36.10



Leading technological innovation

With the goal of building a world-class new energy technology leader, we strive to build a national new energy industry technology highland with industry influence and an original technology source for wind power operation.

Governance

The Company has established a “1+1+4+N” scientific and technological innovation system*, which is coordinated by the Ministry of Science and Technology Information, supported by the National Energy Wind Power Operation R&D (Experimental) Center, with four science and technology enterprises in Beijing as the main body, and supported by provincial companies and their landing projects. The system covers scientific and technological projects, R&D investment, intellectual property rights, technical standards, achievement transformation, etc. During the reporting period, the “Guiding Opinions on the Implementation of Science and Technology Projects” were issued to further standardize the full chain management of research and development investment, project execution, and achievement transformation.

The Company has formulated the “National Energy Wind Power Operation Technology R&D (Experimental) Center Development Plan (2024–2026)”, completed the plan formulation of the R&D center, revised the “Operation Management Measures” and “Research Room Management Measures”, clarified the target positioning and responsibilities of the R&D center, established organizational structure, R&D direction, assessment and evaluation, and incentive mechanism, and leveraged the platform advantages of the National Wind Power Operation R&D (Experimental) Center. In 2024, the Company collaborated with Xi'an Jiaotong University to establish an Innovation Joint Research Institute, actively exploring complementary development models of wave energy, tidal energy and other technologies with offshore wind and photovoltaic power.

Strategy

We are dedicated to the research and development of key technologies, promote breakthroughs and the transformation and application of major technological innovations, provide ample space for scientific and technological talents to showcase their talents, and empower enterprise development with digitalization.

Promote the transformation of achievements

The Company is committed to accelerating the transformation of technological achievements into practical productivity. The first domestically produced independent offshore wind power comprehensive testing platform, “Guoneng Haice No.1” created the unmanned offshore operation mode of “water unmanned ship + underwater robot” to help offshore wind power efficient operation and maintenance. The five key technological achievements, including the localization of new energy design systems based on BIM+GIS technology, have reached the international leading level. The industry’s first self-developed ultrasonic guided wave intelligent monitoring system prototype has been successfully launched at the Dafeng Wind Farm in Jiangsu, ensuring the safe and stable operation of wind turbines. The Research and Application of Key Technologies for Digital Twin in Power Construction Based on BIMBase Engine, of which we participated in the application, won the first prize of the 2024 Power Construction Science and Technology Progress Award, and the results have been successfully applied in more than 10 new energy projects. In 2024, Longyuan Power Engineering Technology Company was awarded the title of “specialized, refined, unique and new” small and medium-sized enterprise in Beijing.

* “1+1+4+N” scientific and technological innovation system: Company headquarters + National Wind Power Operation Research and Development (Experimental) Center + 4 technology companies + affiliated units

Case: Longyuan Power's self-developed industry's first domestic full-stack wind turbine control system has been put into operation

In August 2024, Longyuan Power's self-developed wind power industry's first fully stacked domestic control system was successfully put into operation in the experimental unit, marking the Company's breakthroughs in the three major control system technologies of wind power main control, pitch control, and flow control, and helping the core key technologies of wind power to be independently controllable.

The system is equipped with nationally produced control devices, and its control strategy, middleware, and communication interface programs are all designed and developed based on domestic programming platforms, with 100% independent intellectual property rights. The successful application of this system has broken through the monopoly of foreign controller manufacturers, providing valuable experience for the full stack localization transformation of wind turbine control systems, laying the foundation for the subsequent batch technological transformation of existing units. It has significant economic and social benefits and is of great significance for promoting cost reduction and efficiency improvement in the new energy industry.

Cultivate scientific and technological talents

We provide key support in technology projects, technology awards, and academic organizational positions, focus on cultivating technology talents relying on major technology projects and engineering construction, and continuously improve the Company's technology innovation capabilities. There are 21 doctoral and 221 master's degree holders in the R&D personnel.

Case: Technology talent Yu Chongyang: Empowering with intelligence and craftsmanship to build dreams

National technical expert Yu Chongyang has been deeply engaged in the field of unit operation and technological innovation for more than ten years. He has summarized innovative ideas and methods for wind power equipment maintenance of 11 models from four major brands. He has proposed 275 measures and suggestions to improve the operation quality of wind turbines and organized their implementation, supporting the resolution of more than a thousand difficult faults on production sites. An innovation and efficiency studio, named after Yu Chongyang, has completed a total of 34 technological innovations, 25 registered patents, 2 software works, and solved more than 1,500 industry technical problems, creating a benefit of RMB 46.9 million.



Complete digital transformation

We continue to promote the “164” digital transformation and upgrading plan^{*}, expand the new energy production digital platform, create the “Longteng No. 1” new energy intelligent management platform, achieving comprehensive coordination in party building, planning, engineering, safety, production, operation, and management, and promoting shared collaboration to facilitate refined management. In 2024, the Company was selected as a pilot enterprise for digital transformation of state-owned enterprises by the State-owned Assets Supervision and Administration Commission, and the “Research on Application of New Energy Cloud, Data and Intelligence Integration Based on Dual Cloud Convergence Architecture” was successfully selected as a typical case of “Integrated Application of Industrial Internet and Power Industry” released at 2024 Global Industrial Internet Conference.

Case: Longyuan Power held the first new energy intelligent algorithm competition

In 2024, the first new energy intelligent algorithm competition hosted by Longyuan Power attracted more than 270 teams from outstanding enterprises and top universities to participate in. Focus on the common difficulties and pain points faced by the new energy industry in the field of digital intelligence such as fault warning, power prediction, and image recognition, build an open, inclusive, and innovative competitive stage, and contribute to the high-quality development of the new energy industry.

Risk and opportunity management

Technological innovation is crucial for the development of Longyuan Power, bringing both opportunities and risks.

Technical challenges

The rapid development of new energy power generation technology presents both opportunities and challenges in cutting-edge fields. In cutting-edge fields such as deep-sea offshore wind power, “desert, Gobi and desertification land” new energy base, and solar thermal storage, there are difficulties in technological research and development, unclear technical routes, and extended research and development cycles. The choice of technology research and development path and core technology bottlenecks will have a significant impact on the economic and social benefits of the project. To effectively address the above challenges, we continuously strengthen the pre-research and demonstration of technology research and development projects, establish interdisciplinary professional teams, and integrate internal and external resources for collaborative research and development. We establish a technical reserve library, closely track cutting-edge technological trends, and optimize technical routes and implementation plans in a timely manner. We scientifically plan the scale and implementation progress of technology research and development investment, steadily promote core technology breakthroughs, and break through key technological bottlenecks.

^{*} “164” digital transformation and upgrading plan: “1” refers to build a world-class leading enterprise in new energy digital technology. “6” refers to six key tasks, namely “New Energy Intelligent Large Model”, “New Energy Cloud Edge Computing Center”, “Collaborative Optimization Strategy for Electricity Trading Driven by Meteorological and Power Prediction”, “New Energy Intelligent Decision Support System”, “New Energy Material Supply Chain System”, and “New Energy Navigation Management”. “4” refers to achieve, through a 3-year deepening upgrade, the national largest new energy digital platform data scale, the best data quality level in the entire industry, the widest data open sharing ecosystem in the industry, and the deepest empowerment of AI applications in the industry.

Cooperation risk

In the process of industry-university-research cooperation and upstream and downstream cooperation in the industrial chain, we fully realize the importance of key elements such as technological capability matching, interest balance mechanism, and intellectual property protection. We have established a strict admission mechanism, conducted comprehensive due diligence on our partners, evaluated their technical strength, performance ability, and credit status, actively established long-term and stable cooperative relationships with authoritative industry associations, specialized and innovative enterprises, excellent universities, etc., improved the management mechanism of science and technology projects, ensured clear rights and responsibilities, balanced interests, and clear ownership of intellectual property rights of all parties involved, and promoted the realization of win-win situations for all parties.

Indicators and objectives

We will focus on the forefront of the industry and development strategies, and gradually layout scientific and technological research tasks around three directions. We will deepen the integrated technological innovation from N to 1, promote multi-scenario wind power planning, design, and software development, and rely on projects such as the “desert, Gobi and desertification land” large base technology research and development project and the Dunhuang solar thermal storage system to create integrated technology innovation demonstrations. We will steadily promote the diffusion technology innovation from 1 to N, and implement the deployment of large-scale application demonstration actions for new technologies, products, and scenarios. We will proactively promote original technological innovation from 0 to 1, and promote wave energy research and development demonstrations in coastal areas.

We will continue to deepen the implementation of the Company’s digital transformation and upgrading plan, focus on new energy digital platforms and cloud edge computing power centers, and promote the construction of world-class digital new energy enterprises to go deeper and be more practical. We will expand the scale of platform data, and deeply explore the value of data assisted decision-making. We will also upgrade the new energy cloud edge computing power center, promote the deep integration of energy flow, data flow, and business flow, and better support the stable and efficient operation of the new energy digital platform.

Indicator	Unit	Data in 2024
Accumulated patent authorizations		653
Valid patent		396
Newly-added patent applications		221
Invention patent		125
Utility model patent		96
Participants in national or industry standards		11
R&D investment	RMB100 million	5.23
R&D investment intensity	%	1.41





NATURE: Chart the Ecological Future

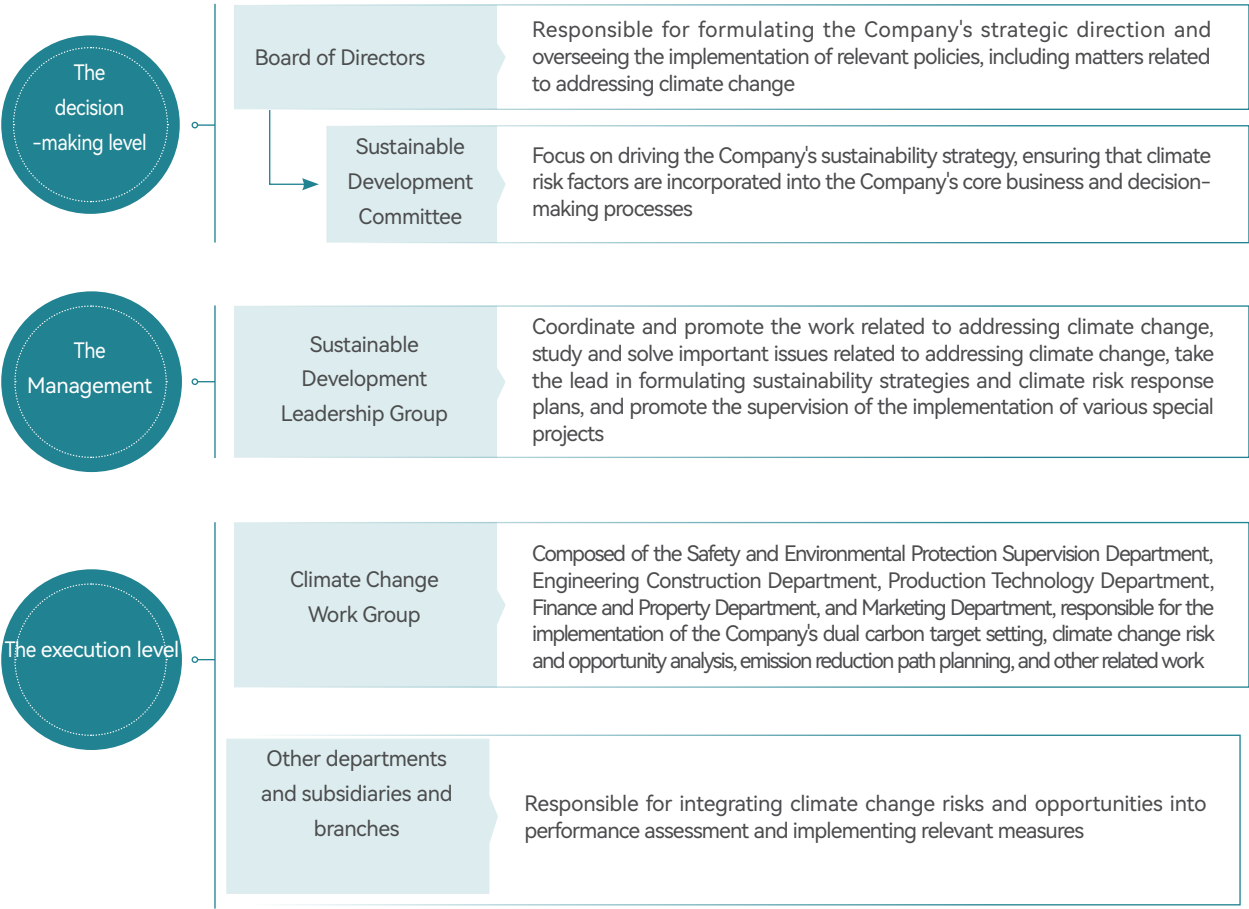
From strategic planning to project implementation, we attach great importance to the impact on the environment and are committed to setting a benchmark for green development in the new energy industry through a scientific and effective environmental management system, proactive ecological protection actions, and innovative circular economy models.

Address climate change

Longyuan Power strictly follows the requirements of the Hong Kong Stock Exchange and Shenzhen Stock Exchange on climate related disclosure standards, gradually improves the climate change governance framework, actively carries out the identification, assessment, and response to climate change related risks and opportunities, and takes multiple measures to enhance the performance of climate change related issues.

Governance

The Company has established a Climate Change Working Group. Under the leadership of the Company's Sustainable Development Leadership Group, the working group undertakes relevant tasks such as setting the goals of carbon peaking and carbon neutrality, planning carbon reduction paths, assessing climate risks, and formulating response strategies. It actively addresses the risks and challenges brought by climate change and contributes to the achievement of the goals of green and low-carbon development. Moreover, the Company continues to improve the rules and regulations related to climate change, and enhance the standardization and synergy of internal actions against climate change. In 2024, we formulated the "Implementation Rules for Extreme Weather Response Management" and the "Emergency Duty Management Measures" to ensure clear action guidelines in the event of extreme events; established the "Management Measures for Carbon Emissions and Carbon Trading", providing institutional guidance for scientific carbon asset management, control of performance costs, and risk prevention; revised the "Management Measures for the Development and Sales of Green Power Certificates", optimized the sales management process and sales methods of green certificates; developed the Energy Conservation and Emission Reduction Management Measures to integrate energy conservation and emission reduction work into the entire process of basic management, engineering construction, production operation, and technological transformation.



Strategy

Longyuan Power attaches great importance to the risks, challenges, and opportunities brought by climate change, plans ahead, scientifically responds to extreme weather, enhances adaptability, and improves the Company's resilience; by increasing investment in new energy, improve the development and management of carbon asset projects, implement energy-saving and emission reduction measures, reduce greenhouse gas emissions, and contribute to the achievement of green transformation and sustainability goals.

Response to extreme weather conditions

The Company strengthens the prevention and control of extreme weather, implements the "quarterly comprehensive investigation + monthly investigation in flood season + special investigation after warning" mechanism on a daily basis, standardizes the preparation of emergency plans, and conducts training and drills to enhance emergency support capabilities. Relying on meteorological data fusion and intelligent monitoring, we achieve 72-hour graded warning and dynamic risk assessment, and develop differentiated protection strategies.

The Company conducted in-depth research on the potential impact of extreme weather on the production and operation of new energy enterprises. Taking Jiangxi Longyuan Company as the research object, the Company scientifically analyzed and systematically analyzed the impact of physical risks such as low temperature, extreme precipitation, and lightning strikes, and innovatively proposed a series of targeted and highly operational response strategies aimed at accurately preventing and resolving the impact of climate change, improving the Company's adaptability, and providing replicable experience for building a climate change resilience development model for the new energy industry.



Maintenance personnel from Longyuan Power Heilongjiang Company was cleaning up snow on distributed photovoltaic modules on the roof

Case: Longyuan Power won the battle against Typhoon Bebinca

In September 2024, Bebinca (severe typhoon) landed in Lingang New City, Pudong, Shanghai. Longyuan Shanghai Company strictly implemented the leadership on duty system and 24-hour on duty work, closely monitored the path, landing location, and intensity changes of typhoon Bebinca, initiated the three-level emergency response for typhoon prevention as soon as possible, fully implemented the on duty system, conducted satellite phone and Beidou short message terminal testing in advance to maintain smooth operation; the anti-typhoon working group performed their respective duties and strictly implemented various measures. According to the three-step strategy of "inspection, modification, and simulation", we seized the window period before the typhoon, completed all manual tests for wind turbine yaw, wind measurement, and pitch control, and focused on inspecting pitch bearings and foundation internal and external bolts to ensure zero defects; thoroughly cleaned up debris in the booster station and fan foundation drainage channels, eliminated equipment defects and hidden dangers.

During the typhoon, the 19 wind turbines of Chongming Beibao Wind Farm operated normally, with a maximum output load of 47,500 KW and a power generation of 681,800 kWh, contributing to the stable supply of regional electricity.

68,323.22 GWh

new energy generation

57.59 million tons

of CO₂ emissions reduced

RMB 2.5 billion

issued green medium-term notes

Supply green energy

Longyuan Power actively responds to the national "dual carbon" strategic goals, vigorously develops new energy such as wind power and photovoltaics, and continues to increase the amount of new energy generation. In 2024, the Company successfully issued a green medium-term note of RMB 2.5 billion, providing strong financial support for the development of new energy projects. Moreover, the Company generated 68,383.22 GWh of electricity from new energy, equivalent to reducing carbon dioxide emissions by 57.59 million tons, making a positive contribution to building a clean, low-carbon, safe and efficient energy system.

The Company adheres to the concept of green development, establishes a unified management model for green certificates, and prepares a list of filing and certification materials to ensure that all green certificates are obtained as much as possible. We fully leverage the scale advantages of new energy, strengthen the efficient operation of green certificates, broaden sales channels, and achieve transactions on the China Green Power Certificate Trading Platform, Beijing Electric Power Trading Center, and Guangzhou Electric Power Trading Center Green Certificate Subscription Platform, maximizing the realization of green environmental value. During the reporting period, the trading volume of the Company's green electricity and green certificates increased by 288.84% and 140.83% year on year.

This year, the Company sold its equity in Jiangyin Sulong Thermal Power Plant, and terminated the "Nantong Tianshenggang Power Generation Co., Ltd. Shareholder Voting Rights Exercise Agreement". By removing the two thermal power plants from the scope of Longyuan Power's consolidated financial statements, a carbon emission reduction of 2.77 million tons of carbon dioxide equivalent has been achieved.

Commitment to advancing carbon asset management

The Company actively develops and participates in various carbon projects, active in the VCS and CCER trading markets, and helps achieve emission reduction goals through reasonable carbon trading strategies. Multiple offshore wind power and forestry carbon sink CCER projects have completed the approval and public announcement process, and applied for the Shanghai distributed photovoltaic carbon inclusive project. The subordinated carbon asset company has completed a total of 48,465 tons of emission reduction through VCS trading. The subordinated Tianshenggang Thermal Power Plant has fulfilled its 2023 annual obligations by using 50,000 tons of CCER and 3.30million tons of carbon quotas.

The Company has carried out in-depth research on carbon footprint and carbon trading, participated in compiling the national standard “Carbon Footprint Quantification Requirements and Guidelines for Greenhouse Gas Products” (GB/T24607–2024) in the field of product carbon footprint, and released the first full-market carbon price index in China – “Longyuan Carbon Quota Comprehensive Price Index”. The self-developed “Carbon footprint multidimensional quantification intelligent computing platform” and “Carbon inventory digital control system” have reached the international leading level and filled the technical gap in the industry.



Longyuan Power actively develops forestry carbon sink projects

Risk and opportunity management

The Company incorporates climate change into its comprehensive risk management process, scientifically establishes a climate change risk control system, regularly conducts risk identification and assessment, and adjusts risk management strategies in a timely manner based on the assessment results.

	Risks/ Opportunities Category	Value Chain Impact	Potential Impact Path	
Physical risks	Extreme weather	Upstream, downstream and core operation	<ul style="list-style-type: none"> Low temperature, rainstorm, typhoon and other extreme events pose challenges to the Company's operational safety, asset safety and personnel safety. Operation interruption affects the utilization hours of power generation equipment and reduces the reliability of power supply Damage to wind and photovoltaic equipment increases maintenance costs and insurance expenses Upstream raw materials and power products cannot be delivered on schedule due to inconvenient transportation and power transmission line interruptions, increasing the risk of the supply chain system 	
	Wind speed and lighting trend	Core operation	<ul style="list-style-type: none"> The interannual fluctuations in wind and solar energy resources alter power generation efficiency and affect power output 	
Transition risks	Policy and law	Upstream, downstream and core operation	<ul style="list-style-type: none"> The reduction of subsidies for new energy and the release of policies related to market-oriented electricity trading have led to fluctuations in electricity prices The trend of mandatory disclosure of climate information both domestically and internationally requires companies to strengthen carbon emission accounting and information transparency, resulting in a significant increase in compliance costs 	
	Market	Core operation	<ul style="list-style-type: none"> The development of new energy projects is fiercely competitive, putting pressure on the Company's market share The output of new energy is significantly affected by weather, leading to severe fluctuations in spot market prices 	
	Technology	Core operation	<ul style="list-style-type: none"> Wind and solar resources have strong volatility, and insufficient prediction accuracy leads to an imbalance between power supply and demand, requiring high system regulation costs to be borne The new power system has put forward higher requirements for technological innovation in the field of new energy 	
Transition opportunity	Development of renewable energy	Core operation	<ul style="list-style-type: none"> Under the dual carbon background, the development of renewable energy has vast potential Developing multiple types of new energy projects can further expand the scope of business 	
	Consumer's preference for low-carbon energy	Core operation	<ul style="list-style-type: none"> Demand for green power and green certificate across society is rapidly increasing 	
	Carbon market	Core operation	<ul style="list-style-type: none"> The national carbon market is gradually expanding, CCER trading is restarting, and the carbon market trading mechanism is gradually improving. Developing and managing carbon assets well will bring revenue growth to the Company 	
	Green financing	Core operation	<ul style="list-style-type: none"> The government has successively introduced policies to support green finance, and banks have increased their support for green financing to reduce financing costs 	

Potential Financial Impact	Responding Measures
<ul style="list-style-type: none"> • Operation interruption leads to revenue loss • Asset value loss and impairment • Increase operating and management costs 	<ul style="list-style-type: none"> • Establish 4 emergency plans to prevent extreme weather, conduct regular emergency drills, and effectively improve employees' climate risk prevention and emergency response capabilities. Purchase natural disaster insurance and personnel safety production liability insurance for the project to hedge risks • Carry out special training on climate event response, offer lectures on natural disaster response, and conduct online live courses on safety activities to enhance personnel safety awareness • Establish a new energy digital management platform, add an "emergency monitoring" module, monitor the real-time operation of on-site equipment, and connect with meteorological data to issue timely warning notifications
<ul style="list-style-type: none"> • Revenue fluctuations 	<ul style="list-style-type: none"> • Distributed nationwide to balance power generation
<ul style="list-style-type: none"> • Revenue fluctuations • Increased expenses 	<ul style="list-style-type: none"> • Closely follow national policies and laws and regulations, develop diversified power marketing strategies, and train power trading talents • Strengthen carbon emissions accounting, ensure accurate and reliable data, improve the quality of information disclosure, and enhance transparency and credibility
<ul style="list-style-type: none"> • Revenue fluctuation 	<ul style="list-style-type: none"> • Adhere to the policy of "one province, one policy", focus on continuous efforts in large bases and offshore projects, vigorously promote the "new energy+" model, and enhance competitive advantages • Synergistic energy storage technology to improve power supply stability
<ul style="list-style-type: none"> • Increased operating costs • Increased research expenses 	<ul style="list-style-type: none"> • Relying on the digital platform for new energy production, a power prediction model optimized based on high-precision meteorological data and AI algorithms is embedded • Increase investment in technological innovation and lay out cutting-edge technologies such as offshore wind power, long-term energy storage, solar thermal power generation, and wave energy applications
<ul style="list-style-type: none"> • Revenue increase 	<ul style="list-style-type: none"> • Promote the high-quality development of new energy by combining wind and solar power, complementing with multiple energy sources, and exploring an integrated model of hydrogen and ammonia
<ul style="list-style-type: none"> • Revenue increase 	<ul style="list-style-type: none"> • Utilize the scale advantage of new energy, accurately connect with the demand side, and take multiple measures to increase the trading volume of green electricity and green certificates
<ul style="list-style-type: none"> • Revenue increase 	<ul style="list-style-type: none"> • Participate in the development of carbon footprint related standards and methodologies • Actively develop carbon sink projects and participate in market transactions
<ul style="list-style-type: none"> • Reduced cost of funds 	<ul style="list-style-type: none"> • Issue low interest green medium-term notes and green bonds to meet the Company's green investment needs

Indicators and objectives

We continuously monitor and track the emissions situation, statistically analyze and disclose relevant indicators, laying the foundation for setting future greenhouse gas emission reduction targets in 2025. We utilize cutting-edge international climate models to conduct climate change scenario analysis and assess the potential impacts on the Company's development. We expand the scale of green electricity and green certificate transactions and further promote the development of CCER (Chinese Certified Emission Reduction) and VCS (Verified Carbon Standard) projects. Additionally, we explore the establishment of a carbon footprint management system covering the entire life cycle to strengthen carbon footprint management.

Indicator	Unit	Data in 2024
Total greenhouse gas emissions	tCO2e	7,354,064.91
Scope I Greenhouse gas emissions	tCO2e	7,186,902.32
Scope II Greenhouse gas emissions	tCO2e	167,162.59
Carbon credit	tCO2e	50,000
Green electricity trading	GWh	6,701.91
Green certificate trading	10,000 orders	1,023.54



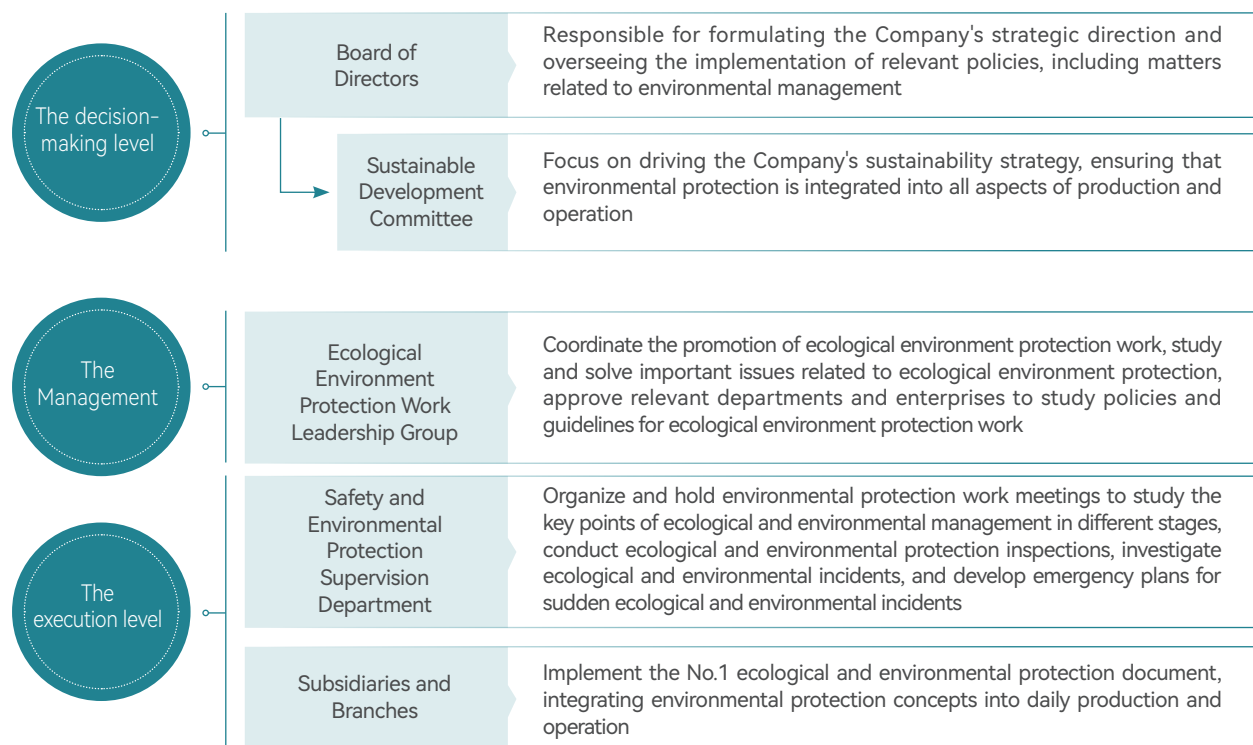
Longyuan Power's Rudong Wind Farm in Jiangsu Province

Strengthen environmental management

Longyuan Power places great emphasis on environmental protection. By strictly complying with ecological and environmental protection laws and regulations, it has established a comprehensive and meticulous environmental protection governance system. We are committed to achieving a win-win situation between ecological and economic benefits in the development of new energy, and contributing to the promotion of industry green transformation and ecological environment improvement.

Governance

We carry out environmental protection work based on the principles of green development, protection priority, compliance with laws and regulations, and full process management. We strictly follow relevant laws, regulations, and standards such as the “Environmental Protection Law of the People's Republic of China” and the “Soil and Water Conservation Law” of the People's Republic of China. In the production and operation of enterprises and new energy power generation, we have formulated the Ecological Environment Protection Management Measures and Detailed Rules for Ecological Environment Protection Behavior of New Energy Power Generation Enterprises to clarify goals, responsibilities, and processes, ensuring the implementation of the concept of green development; in terms of ecological environment incident management, we have formulated the Regulations on Internal Investigation and Handling of Ecological Environment Incidents to ensure that emergency situations are dealt with in accordance with laws and regulations; in response to waste discharge, we have formulated the Hazardous Waste Management Measures to control the flow of hazardous waste and prevent environmental pollution. We have established a long-term environmental protection mechanism, prepared the annual ecological and environmental protection No.1 document, refined 210 implementation clauses, clarified the annual safety and environmental protection work plan, and regularly track progress to ensure the completion of goals.



Strategy

We take ecological environment protection as the starting point, continuously improve risk control mechanisms, strictly control pollutant emissions in the production process, enhance professional competence through training, and create an atmosphere that highly values the environment.

Strengthen risk management and control

We improve the ecological environment risk control mechanism, regularly revise emergency plans and organize practical exercises to enhance the ability to respond to sudden environmental incidents. We continuously carry out hidden danger investigation and rectification, conduct in-depth ecological monitoring, comprehensively prevent environmental risks, and ensure ecological environment safety.

Strictly control production emissions

In response to air, water, and soil pollution, thermal power plants have implemented deep denitrification transformation of coal-fired boilers, promoted the replacement of new energy maintenance vehicles, and reduced air pollutant emissions. We standardize the sewage treatment process and achieve zero discharge of wastewater; strengthen the prevention and control of soil pollution at the source to safeguard the safety of clean land; establish a standardized management ledger to strictly supervise the entire process of solid and hazardous waste generation, collection, transportation, and disposal, ensuring that every link meets environmental standards. Thermal power plants have achieved 100% standardized disposal of fly ash, slag, and gypsum.

Enhance support and guarantee

The Company has established a sound environmental performance assessment mechanism to implement environmental protection responsibilities to specific positions and individuals to ensure the effective implementation of environmental protection measures. We increase investment in technology, introduce advanced environmental protection technologies, use information technology to achieve real-time monitoring and analysis of environmental data. The Company has set up a professional environmental management team, continue to carry out professional skills training, and constantly improve the professional quality of environmental management personnel. Carry out extensive publicity and education on environmental protection, and create a good atmosphere of "everyone cares about environmental protection and everyone participates in environmental protection".



The effectiveness of soil and water conservation control in the Dahaizi wind farm in Weining, Guizhou

Risk and opportunity management

The Company attaches great importance to the management of environment-related risks and opportunities, and establishes a management process of "risk identification, assessment, monitoring and early warning" to ensure that risks are controllable and controlled.

Policy and regulatory risks

With the deepening of national ecological civilization construction, the environmental protection policy and regulatory system continues to improve, and regulatory requirements are becoming increasingly strict. If there is a deviation in understanding or delayed implementation of newly introduced policies and regulations such as ecological protection red lines and environmental impact assessments, it may lead to project approval obstacles, construction delays, and even compliance risks such as administrative penalties, resulting in significant economic losses and reputation damage. The Company attaches great importance to the standardization and systematicity of environmental risk management, accurately grasps industry policies, regulations, and risk management points, formulates inspection outlines, and conducts comprehensive investigations of ecological and environmental risks from multiple key links. The Company has established a problem rectification and supervision mechanism, regularly tracks the implementation of problem rectification, and forms a closed-loop management.

Environmental compliance risk

There are many uncertain factors in the process of project construction and operation, which may easily lead to environmental compliance risks. Improper environmental protection measures during construction may cause soil erosion and ecological damage; equipment failure during operation and untimely maintenance may lead to pollutant leakage. Once an environmental accident occurs, the Company will face legal responsibility and economic compensation, seriously affecting normal operations. The Company strictly implements the environmental impact assessment system, implements the "three simultaneousities" requirements, regularly conducts environmental hazard investigation and treatment during operation and carries out emergency drills in accordance with the Emergency Plan for Environmental Incidents to improve environmental risk prevention and control capabilities.

Indicators and objectives

We will strictly follow the "three simultaneous" requirements and make every effort to build green ecological projects. We will fight hard to prevent and control pollution, establish and constantly improve a dynamic mechanism for eliminating hidden dangers of ecological and environmental problems, and strictly control the occurrence of ecological and environmental incidents.

Indicator	Unit	Data in 2024
Environmental input	RMB10,000	67,083.83
Total wastewater discharge	Ton	108,447.00
Total hazardous waste generation	Ton	951.96
Quantity of major environmental violations	Case	0

Protect natural ecology

Longyuan Power adheres to the concept of sustainability and effectively improves the ecological environment of the project development site through the sustainability pattern of new energy + ecological restoration. We attach great importance to biodiversity protection and contribute to the harmonious coexistence between humans and nature.

Ecological restoration

The Company always adheres to the concept of "ecological priority and green development". In the development and construction of new energy projects, we pay attention to ecological protection and restoration. Through methods such as topsoil stripping and reuse, setting up temporary blocking facilities, we effectively prevent soil erosion, and promote vegetation restoration by planting local plants. When constructing new energy projects in special terrain conditions such as deserts and Gobi, we adhere to the principle of "planning before development, and developing while managing", and reduce the impact on the original ecosystem through scientific site selection and optimized layout. At the same time, large-scale vegetation restoration projects are implemented in the project area and its surrounding areas using techniques such as grid sand barriers and grass grid sand fixation, effectively improving the ecological environment.



The ecological restoration effect of Phase I of the Tengger Desert New Energy Base Project in Ningxia is remarkable, and the vegetation coverage rate has increased from 0.5% to 20%

Biodiversity conservation

The Company strictly follows the “Forest Law of the People's Republic of China” and the “Wildlife Protection Law of the People's Republic of China”, formulates the No.1 ecological environment protection document every year, and improves the management mechanism and institutional system for biodiversity conservation. In the project feasibility study report, the biodiversity survey within the project site selection is listed separately to highlight its importance. We strictly adhere to the requirements of ecological protection red lines and adopt various reliable protection measures during project site selection, engineering construction, production and operation stages. We conduct in-depth research on the impact of wind power on bird migration. Bird monitoring is carried out in Jiangsu, Guizhou, and Tianjin by professional institutions. We ensure bird safety through proper turbine spacing, warning colors, and artificial nests. Also, we monitor the impact of turbine noise on marine animals, track changes in biological resources in tidal power station reservoirs, and regularly release fry to protect marine fishery resources.



Wild animals are active in the wind farm area

Optimize resource utilization

Guided by the principle of sustainable development, Longyuan Power is vigorously developing the circular economy and establishing a resource recycling system. It advocates green office practices and cultivates employees' environmental protection habits. The Company makes efficient use of resources to avoid waste, gradually optimizing resource utilization.

Develop circular economy

Faced with the growth of market scale for wind power retirement and replacement, Longyuan Power actively responds to the challenges of wind turbine transformation, upgrading, and retirement work. We conduct research on the life and strength assessment, dismantling, recycling, remanufacturing, cross regional allocation, and reuse of old wind turbines, promote environmental protection, circular economy, and high-value utilization throughout the entire process of the new energy industry, and assist in the industrial layout and development of large-scale retirement and emerging solid waste disposal.

Case: Recycling waste wind turbine blades to create a “waste free factory”

China's first 1,000-ton waste wind turbine blade recycling pilot production line, of which Liaoning Longyuan New Energy Development Co., Ltd. is responsible for the research and design, was put into trial operation in Shenyang at the end of this month. The project will build a demonstration base for the harmless recycling and resource utilization of retired wind turbine blades and other new energy solid waste based on advanced scientific research and technological achievements, forming a demonstration of renewable resource recycling and supporting the green development of new energy industry.



Advocate for green office

The Company actively promotes green office practices, encouraging full participation from all employees. Starting from the details, it promotes paperless office work and encourages double-sided printing to reduce paper waste. The Company effectively reduces power consumption by optimizing infrastructure such as elevators, lighting, and air conditioning systems, builds distributed photovoltaic systems on rooftops, and purchases green power certificates to expand green power application scenarios. During the reporting period, the headquarters office building and Yichun North Base purchased green certificates for the Alibaba project and Badaling photovoltaic project through the Guoneng e-power platform, achieving 100% green electricity consumption in 2024.

Efficient utilization of resources

The Company actively responds to the requirements of energy conservation and introduces cutting-edge technologies to improve the efficiency of converting solar and wind energy into electricity. We use intelligent monitoring and operation and maintenance technology to ensure efficient and stable operation of equipment. Scientifically equipped with energy storage devices to store electric energy when there is a surplus of power generation and release it when there is a shortage of power to avoid waste of electric energy.

The production process of the Company's thermal power business consumes water resources. To address this, advanced technologies, processes, and equipment such as recycled water and wastewater treatment and reuse are adopted to reduce the water consumption of each unit and improve the reuse rate of water resources. We organize large-scale operational photovoltaic projects to develop water use plans and systems, adjust water use structures, improve water use methods, and implement water-saving renovations to reduce water resource usage. At the same time, water saving theme activities are carried out, and social media and official account are used to publicize water saving knowledge, so as to create a water saving atmosphere in the Company.





TRUST:

Be People Oriented

We value the protection of employees' basic rights and interests, provide smooth channels for their growth and development, put efforts on optimizing the environment for talent growth, focus on talent cultivation to boost the core competitiveness of enterprises for high-quality development, enhance humanistic care, and create a safe, healthy, and harmonious working environment for employees.

Protect employee rights and interests

100%

Signing of employment contracts

25%

The proportion of female senior managers

100%

Social insurance coverage

The Company adheres to the concept of "people-oriented", establishes a trade union organization to promote the protection of the legitimate rights and interests of employees, and is committed to building a fair, just, and harmonious working environment, so that every employee may realize their own value in Longyuan Power and grow together with the enterprise.

Equal employment

We adhere to the principle of equal employment and strictly abide by relevant national laws and regulations. The Company strictly adheres to all applicable national labor laws and regulations. We unequivocally prohibit child labor and forced labor, and firmly oppose any form of harassment, bullying, or intimidation. We ensure equitable treatment of employees regardless of nationality, race, gender, religious beliefs, or cultural background. Labor contracts are signed with all employees in full compliance with legal requirements, achieving a 100% contractual coverage rate. In 2024, there were no disputed incidents of discrimination, child labour or forced labour.

The Company adopts a flexible employment model according to actual needs, attracting individuals with diverse backgrounds, skills, and experiences to join. We strictly sign reasonable labor or cooperation agreements with flexible employees in accordance with the requirements of the "Interim Provisions on Labor Employment Management." We also offer them fair and just career development opportunities and compensation, pay the necessary social insurance premiums, and establish effective communication channels and feedback mechanisms to ensure that flexible employees can also enjoy equal treatment with a favorable working environment.

Salary and benefits

We pay the "Five Social Insurance and One Housing Fund" for employees on time, establish enterprise annuities, and additionally purchase supplementary medical insurance and personal accidental injury insurance. All employees of the company are eligible to enjoy non-monetary benefits, including annual leave, marriage leave, maternity leave, and parental leave, etc. The Company continuously improves the relevant systems of salary incentives, and has formed a salary distribution mechanism based on positions and grounded in employees' abilities and performance. It promotes the salary distribution to favor front-line positions and talents who have made outstanding contributions, fully stimulating employees' enthusiasm.

The Company is committed to creating a fair, transparent and positive working environment to promote the common growth of employees and the company. The Company regularly conducts employee performance evaluations. After the evaluation, the employees' direct supervisors promptly communicate and provide feedback on the results to the employees, affirm their achievements, analyze existing deficiencies, collaborate with employees to formulate improvement directions and action plans, and clarify the future development paths.

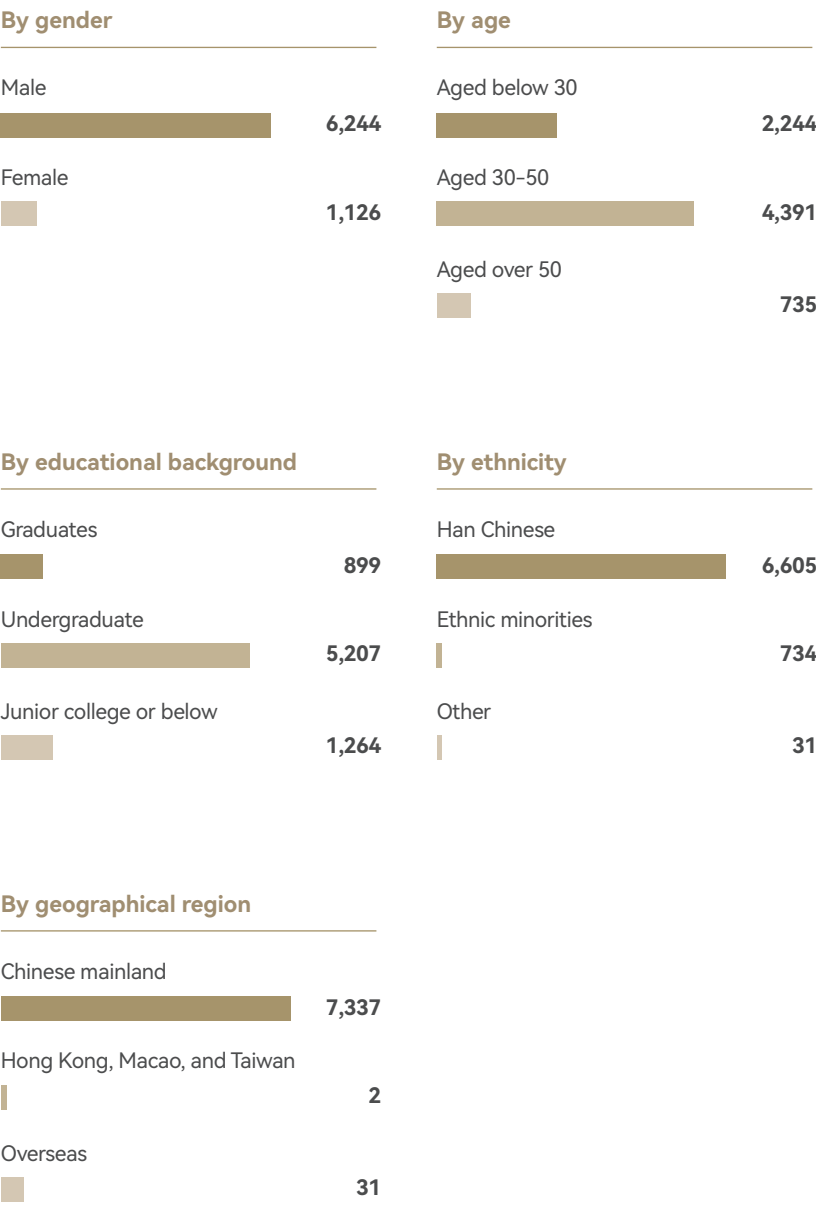
Democratic management

We have been strengthening democratic management with the workers' congress as the main form, regularly holding workers' congresses to enable two-way information communication. We encourage employees to participate in corporate decision-making and put forward reasonable suggestions to improve the Company's management efficiency. The Company has established multiple channels for employees to lodge complaints. When employees have demands, they can not only report to their direct supervisors but also file complaints with the trade union committee or the human resources department. The Company assigns dedicated personnel to follow up and handle each complaint, provides timely feedback on the handling progress and results, and strictly ensures the confidentiality of information throughout the complaint process, comprehensively protecting the legitimate rights and interests of employees. In 2024, all 33 proposals put forward by the workers' congress regarding reform and development, safety production, talent cultivation, and technological innovation were successfully implemented.

Number of full-time employees

7,370

Unit: Person



Focus on employee development

We adhere to the strategy that talents empower the enterprise, regard employees as valuable cornerstones for the long-term development of the enterprise, explore the construction of a sound promotion and training system, provide various vocational training for talents at all levels, help employees improve their abilities and values, and promote the synergy between employees' career development dreams and enterprise development.

Intensify efforts to attract talent

The Company has formulated the "Management Measures for Employee Recruitment, Deployment and Withdrawal", established and improved the management system for employee recruitment and deployment, and is fully committed to building an efficient and sustainable "talent supply chain" system. We conduct campus, social, and internal recruitment in an orderly manner, effectively ensuring sufficient reserves of talent resources. During the reporting period, 396 new employees were recruited, of which 47% had a postgraduate degree or above.

Smooth career development channels

We have three talent channels of "technology, skills, and management", and deepen market-oriented reforms in personnel systems, instituting up/down mobility for executives and in/out flexibility for employees. We actively encourage affiliated units to implement a hierarchical and categorized "competitive selection" mechanism for vacant positions, while fully leveraging the role of performance evaluation results in areas such as: compensation distribution, position and rank adjustments, recognition of excellence, adjustments for underperformance, and exit mechanisms for incompetence, to comprehensively smooth the career development and exit channels for employees. In 2024, 30 young cadres were promoted, accounting for 73 percent of the total.

RMB **56.63** million
Expenditure on employee training

6,856 persons
Employees participating in training

210.32 hours
Per capita hours of training
employee participation in

93.03 %
Employee training coverage

Strengthen employee capacity building

The Company has formulated the "Staff Education and Training Management Regulations". We deepen the implementation of the three-year plan for the construction of a technical and skilled talent pool, promote a new model for selecting chief officers, and hire 120 new chief officers, making the technical and skilled talent pool more complete. We recommend the 2024 engineering master's and doctoral enterprise mentors based on merit, and have accumulated 16 candidates to help build a first-class team of enterprise mentors. In 2024, the Company newly had one national craftsman and two CHN Group craftsmen, and increase the proportion of scientific and technological talents by 4%.

The Company implements the strategy that talents empower the enterprise, and matches appropriate training content for employees at different levels and positions. We organize new employee training every year to help employees quickly integrate into the Company culture and master basic job skills; organize a 2024 management skills improvement training course, conduct leadership training covering all employees, and enhance personnel management skills. For the first time, we jointly carried out listing compliance training with Shenzhen Stock Exchange to establish a firm compliance concept. We have established a high skilled talent training system, awarded "technical skills training bases" in Gansu and Hebei provinces, and effectively improved the level of grassroots production skills through targeted approaches; organized specialized training on wind turbine subsystems to enhance employees' professional practical abilities; created a high-quality training program called "Craftsman Training Camp", with a focus on cultivating employees' abilities in electrical maintenance and repair. In 2024, employee training satisfaction reached 97%.

By promoting talent development through competitions, the Company has launched a "One cup, Two competitions" program*, with 94 competitions held throughout the year. We actively participated in 7 national and industry competitions, and achieved excellent results in national competitions such as wind power operation and maintenance, carbon emission management, and power finance.



National technical expert Wang Jianguo communicates with employees in the workshop

* "One cup, Two competitions": CHN Cup Green Development Labor Competition and Intelligent Construction Skills Competition

Safeguard employee safety

We place employee health and safety in an important position, with a high sense of responsibility and mission, actively deploy and implement a series of measures around occupational health and production safety, and comprehensively protect the health and well-being of employees.

Occupational health

The Company is committed to building a demonstration unit for "healthy enterprises". We regularly detect occupational hazards in the workplace, continuously improve the working environment, and ensure the safety and health of employees' working environment. We timely conduct pre-employment, on-the-job, and post-employment occupational health examinations to achieve full coverage of injured employees and improve personal occupational health records. We have established an occupational disease prevention and control committee and incorporated occupational disease prevention and control work into the daily safety management system. In 2024, the occupational health examination rate for employees who have been harmed was 100%, and no occupational diseases or suspected cases was found. At the same time, no exceeding standard stations have been found in the detection of workplace hazards. Five companies in Hunan, Jilin, Anhui, Shanxi, and Jiangsu have been awarded provincial-level health enterprises, and five units have been awarded city level health enterprises, continuously providing protection for employees' occupational health.

Production safety

The Company strictly abides by the Safety Production Law of the People's Republic of China and the laws and regulations on safety production in the country where it is located, continuously improving the level of intrinsic safety.

Improve the institutional system

We continue to improve our Health, Safety, and Environment (HSE) management system by establishing seven permanent HSE related organizational structures, including the Safety Production Committee, the Ecological Environment Protection Work Leadership Group, and the Occupational Disease Prevention and Control Committee. We strictly abide by relevant laws and regulations on safety production and occupational health, and actively establish a long-term mechanism for safety and environmental protection. The Company has formulated management measures such as the "Safety Performance Points Management Measures", the "Engineering Construction Safety, Health, Environment and Civilized Construction Management Measures", and the "Safety Management Inventory" to strengthen the standardization of safety production. We have established three lines of defense, namely "safety risk control", "hidden danger investigation and governance", and "emergency response and rescue", to fully ensure the safety of employees.

Prevent safety hazards

We develop multiple anti-accident measures such as fire prevention technical renovation plans for small units and dress codes for production and infrastructure sites, to standardize on-site operations, and prevent accidents from occurring; timely assess various safety risks through on-site inspections, remote video spot checks, and mutual inspections of high-risk operations. We have comprehensively investigated the safety hazards in the areas of preventing height fall, fire prevention, outsourcing contractors, safety protection facilities, geological disasters, energy storage power station fire, etc., and implemented a closed-loop management of "discovery, rectification, and cancellation" for the hidden hazards found.

Enhance emergency response capability

The Company has formulated the "Regulations on Emergency Management of Longyuan Power" to standardize the emergency management process, clarify the early warning classification and response action measures, and establish an emergency management system with effective connection and interconnection between the upper and lower levels. We have also formulated an annual emergency drill plan and held observation activities of emergency drills for offshore operations, wind turbine fires, traffic accidents, etc., so as to improve the emergency response capabilities.



Longyuan Power Hebei Company conducts emergency drills for electric shock first aid at Zhangjiakou maintenance base

Implementing Science and Technology for Safety

The Company empowers production safety with the power of intelligence. We have built intelligent power stations, utilizing technologies such as drones and AI models to carry out intelligent inspections and data collection and analysis, accurately locate equipment defects, and effectively reduce the risk of safety management; we have innovatively applied new technologies such as live webcasting and VR to carry out safety training, and built up employees' safety awareness through “immersive” education, basically realizing no blind zones in on-site supervision; we have actively carried out the 2024 national-level network attack and defense drill and defense work, and undertook the construction of the first new-energy-focused cybersecurity range in the country to enhance the cybersecurity protection level of the new energy industry, and ensure the safe and stable operation of the power system and the reliable supply of electricity.

Case: Longyuan Power's First Comprehensive Safety Training Room Officially Comes Online

Longyuan Power officially launched its first comprehensive safety training room. This safety training room integrates a VR lifting experience platform, a VR fall simulation platform, a human first aid system, a virtual fire extinguishing experience device, an electric shock experience device, a conductor overload simulation, and a knowledge quiz assessment system, which all-aroundly simulate typical operational risks and accident hazards of new energy enterprises in the production process. Through the experience, employees can feel the importance of production safety more intuitively and truly, creating a new platform for safety training.



Enrich spare-time life

We uphold the "Employees First" philosophy and implement "Five Actions for Care" brand* building to ensure that our care for employees is truly realized. The Company organizes a variety of cultural activities to balance work and life, with benefits covering all employees. We actively organize sports events such as basketball and badminton games to enrich employees' spare-time life; conduct health knowledge lectures and legal service open days, and theme activities of "Bring Health to Employees", "Deliver Coolness in Summer" and "Deliver Warmth in Winter" to provide comprehensive care for employees, aiming at effectively improving employees' sense of gain, happiness and security. We care for female employees by organizing a series of activities such as handicraft DIY sessions and flower arranging at the Women's Day Celebration.

We care for retired employees, frontline employees and expatriate employees. We have revised and issued the "Regulations for the Management of Retirees in the Headquarters of the Company" to protect the treatment of retirees. We regularly carry out visits and consolation activities for frontline employees, and organize study and recuperation activities for employees in difficult and remote areas to enhance employee care; and enhance psychological counseling for expatriate employees of overseas projects and continuously improve the living conditions of overseas employees.



Longyuan Power's Fifth Employee Basketball Tournament

* "Five Actions for Care" brand: the mind convergence action for ideological guidance, the comforting hearts action for production and livelihood support, the heartwarming assistance action for inclusive aid, the reassuring action for health protection, and the warmth-delivering action for problem resolution and hardship relief.





VALUE:

Serve the Overall Situation of Development

Longyuan Power actively fulfills the responsibility of corporate citizenship, and as a supply chain leader, actively promotes the construction of green supply chain. We vigorously carry out industrial assistance and ecological revitalization work, and outline a prosperous new outlook for the countryside and actively organizing voluntary service activities, demonstrating the central enterprise's commitment with "Volunteer Red". Adhering to the principle of "joint consultation, shared benefits and joint construction", we promote energy cooperation and cultural integration, and continue to contribute to the harmonious development of the world.

Deepen supply chain management

We strictly comply with the Law of the People's Republic of China on Bid Invitation and Bidding and the Regulation on the Implementation of the Law of the People's Republic of China on Bid Invitation and Bidding, insist on responsible and fair procurement, strictly follow the standards for supplier selection, proactively identify and reduce environmental and social risks in the supply chain, and promote the sustainable development of the supply chain.

100%

In 2024, 100% of suppliers signing the Integrity Commitment Agreement for tender projects

Responsible procurement

We are committed to responsible procurement by integrating ESG principles into the relevant procurement policies, paying close attention to suppliers' management practices in the areas of the environment, employee health and development and business ethics in our procurement processes, and prioritizing the selection of products that comply with the national environmental protection and energy consumption standards throughout the product lifecycle, so as to reduce the risk of non-compliance; we continuously standardize our procurement systems and processes to fully utilize advantages in centralized procurement and expand economies of scale, thereby reducing costs and increasing efficiency.

Case: Longyuan Power Strengthens Centralized Efficiency Creation to Create a Shared Procurement System

In 2024, Longyuan Power implemented the concept of centralized and efficiency-creating procurement management, established the centralized and common procurement mode of "demand coordination, professional collaboration and standardization", and set up a mechanism for coordinated and joint procurement work in the whole process from design source to product supervision and manufacturing. Through the compilation of standardized and modularized procurement technical documents for key segments, we continuously expanded the scope of application for the centralized procurement model. We added seven major categories of framework long-term agreements for procurement, including bracket and supervision, which saved 5% of the cost as compared with decentralized procurement on the basis of guaranteeing preferred suppliers, and cumulatively saved 1,187 procurement segments, with the rate of centralized procurement reaching 90%, and the resilience of the new energy supply chain and the efficiency of procurement continuing to be improved.



Supplier Management

The Company has revised and improved the supplier system by introducing ESG management criteria for the first time within the supplier management policies, exploring ESG evaluations for major suppliers, and promoting the improvement of suppliers' management in human rights and labor practices, environmental management and business ethics. The Company also strengthened the efforts to deal with suppliers' breach of trust and imposed severe penalties on suppliers' trustworthy behavior; strengthened the management of contractors, supervised all contractors to implement the unified, standardized and regulated management requirements formulated by the Company, and organized 1,054 personnel of outsourced production and engineering contractors to participate in the safety examination. In 2024, Longyuan Power won the First Prize of the Fifth National Supply Chain Competition for Enterprise Groups, organized and participated in the China Electricity Council's "2023 Typical Cases of Material Supply Chain Management Innovation and Application in the Power Industry" and won the Grand Prize and the First Prize.

467 suppliers
were evaluated

98%
of suppliers passed quality management
system certification



Contribute to a better society

RMB **68.88** million
invested in charity and public welfare
projects

2,175 person
of accumulated volunteer activities

We actively assumed the responsibility of corporate citizenship by launching various forms and rich content volunteer service activities, polishing the color of central enterprises with “Volunteer Red”, sowing hope on the fields of rural revitalization, and outlining the new outlook of rural prosperity with industrial assistance and ecological revitalization.

Building a Harmonious Community

The Company actively participated in public welfare and charity, cultivated and created a brand of voluntary service activities, which continued to carry out the series of activities, such as Learning from Lei Feng, “Green Development and Ecological Protection” voluntary service activities and “New Energy Knowledge into Schools” popularization of science and technology voluntary activities. The Company organized young league members to visit communities, villages and towns to provide condolences and assistance, and gave lectures on green power, with a total of 2,175 people participating in the voluntary activities. In 2024, the Company launched external donation projects on themes such as disaster relief, education, and rural revitalization, and invested RMB 68.88 million in public welfare and charitable projects.



Shandong Longyuan's "Explore New Energy, Set Sail for a Green Future" Scholarship Public Welfare Activity

Empowering Local Development

The Company actively implemented the concept of sustainable development, injected continuous power into local communities through the establishment of the sustainable development model of “teaching people to fish” while developing new energy projects globally. Longyuan South Africa Company continued to initiate the “Aid, Dreams, People” Education Assistance Program, which helped more than 500 young people to complete their studies or start re-employment training by subsidizing undergraduate students from poor communities in De Aar Township, Northern Cape Province, as well as offering vocational training programs for young people in the community.

Case: Longyuan South Africa Company Hosts Photovoltaic Operation and Maintenance Training Course to Empower Community Development

The first photovoltaic operation and maintenance training course organized by Longyuan South Africa Company in cooperation with local shareholder DLO focused on the youth groups in De Aar Township, with a total of 100 unemployed young trainees from the local community selected to undergo a three-month systematic training, aiming at cracking the problem of high unemployment in the community through the precise empowerment of the downstream service positions in the renewable energy industry chain. The project focused on the field of solar panel cleaning and maintenance, and completed the training and issued vocational qualification certificates through modules such as theoretical lectures, practical training, workplace adaptability guidance and employment matching. At present, 10 trainees have signed employment agreements with local enterprises and formally entered the new energy industry.

Longyuan South Africa Company will continue to collaborate with partners to support the ongoing operation of the program and explore more skills training opportunities, help more South African youths acquire professional skills in the field of renewable energy and empower the local community.



RMB **18** million
invested in paired assistance for
village revitalization

Supporting Rural Revitalization

Taking precise measures to support rural revitalization and focusing on Youyu County in Shanxi Province, Longyuan Power leveraged industrial advantages, continued to increase financial support, and implemented a combination of industrial assistance, educational assistance, consumption assistance and infrastructure development.

In 2024, the Company invested RMB 18 million of uncompensated assistance funds in Youyu County and implemented 11 paired assistance projects. Through the installation of high-tech water storage and irrigation equipment in the greenhouses of Kangping Village and Mayinghe Village, the efficiency of agricultural greenhouses was enhanced. The project of ecological sheep breeding demonstration base in Xinmiao Village of Yangqianhe Township will adopt the mode of “Enterprise+Base+Farmer”, which will drive the development of industrial scale and standardization, increase the collective income from the village and boost farmers' earnings at the same time. 190 forest rangers were selected to manage and protect 260,000 acres of ecological forests, which not only consolidated the greening achievements, but also increased the income of people lifted out of poverty. The Company carried out the “Light up the Future” educational assistance activity. In 2024, the Company built the “Wisdom Space” in Youyu No. 3 Middle School and renovated the outdoor hardware facilities of Dongjie Kindergarten in Youyu County, contributing to the healthy and happy growth of children. Moreover, we released the report titled “Rising Winds in the Countryside, Thriving Prosperity – 2024 Rural Revitalization Report of Longyuan Power”, which systematically disclosed the Company's work and achievements in consolidating poverty alleviation results and supporting rural revitalization.



"Wisdom Space" in Youyu No. 3 Middle School

Strengthen Data Security

Longyuan Power attaches great importance to data security, network security, and informatization work. By establishing a scientific and efficient organizational structure and a comprehensive and perfect institutional system, it provides strong support and safeguards for the digital transformation.

The Company has established a leading group for network security and informatization work, with the Party secretary and chairman as the leader and other company leaders as members, to coordinate data security management. The office of the leading group is located in the Department of Science, Technology and Information, which promotes the implementation of relevant decisions and builds a trinity network security guarantee system integrating "management, technology, and operation & maintenance". In accordance with national laws and regulations such as the "Cybersecurity Law", the "Data Security Law", the "Personal Information Protection Law", and the "Regulations on the Security Protection of Critical Information Infrastructures", the Company has established an institutional system covering data management, network security, and informatization. In 2024, the Company did not experience any major information and network security incidents.

Technical Protection and Operation & Maintenance Security

By deploying technical means such as firewalls, encrypted transmission, and security situation awareness platforms, the Company prevents network attacks and data leaks and ensures the security of infrastructure. By standardizing the access behavior of mobile media, unauthorized devices are prohibited from accessing the network, and when terminal devices are scrapped, data must be completely cleared to prevent the loss of information assets and ensure the security management of terminals and media.

Data Lifecycle Management

Data is stored on designated secure media, and the use of personal devices or cloud storage is prohibited. The Company establishes a data backup and recovery mechanism and regularly verifies the effectiveness of backups. We also periodically review the compliance risks of data external output and entrust processing scenarios, and implement data authorization and operation systems.

Emergency Management and Risk Prevention

The Company has formulated emergency plans for network security incidents and conduct routine emergency drills. Using the situation awareness platform, the Company monitors network threats in real time and establishes a risk warning closed-loop mechanism. We also regularly carry out network security training and data security emergency management work.

Vendor data security management

In order to comprehensively build a solid defense line for data security, the Company has extended the scope of data security management to suppliers. In the cooperation agreements signed between the Company and suppliers, it is clearly stated that both parties should jointly abide by the requirements of data security and confidentiality, and it is stipulated that when obtaining, transmitting, storing, and using the data provided by the other party, they must strictly follow the norms. In the information sharing process, based on the principle of minimum necessity, only the data information necessary for business operations is provided to relevant personnel, and the confidentiality responsibilities are implemented.

Our Commitment

Renewable energy opportunities

The Company will expand green energy investment, grasp the two key growth points of large bases and offshore wind power, and proactively deploy deep-sea offshore wind power projects and centralized projects for local consumption. Coordinating the development of decentralized wind power for village revitalization according to local conditions. We will keep exploring new industries such as ocean ranching and hydrogen generation from offshore wind power, and promote the integrated development of industries.

Response to climate change

The Company will strengthen carbon emission management throughout the life cycle of new energy projects, enhance the monitoring and evaluation of carbon emissions from projects, treat it as an important indicator of project management, and continuously optimize operation strategies, so as to contribute to the global response to climate change. We will expand the scale of green power trading and solidly carry out carbon emission and carbon trading business to continuously demonstrate green value.

Ecological conservation

The Company will establish and improve dynamic zeroing mechanisms for ecological environment issues and hidden dangers, prevent and resolve ecological environmental risks, and curb ecological environmental incidents. Further we will improve resource conservation and utilization levels, advance pilot construction of "zero-waste group" initiatives.



Scientific and technological innovation

The Company will keep increasing R&D investment, perfect the scientific innovation system, integrate internal and external resources, and enhance the organization and synergy efficiency of scientific innovation. Exploring complementary development models for wave energy, tidal energy and other technologies with offshore wind power and photovoltaics, and promote the scaled application of green hydrogen and other new energy sources. We will strengthen the National Energy Wind Power Operation Technology Research and Development (Experimental) Center, and promote integrated development of industry, academia, research and application. Accelerate digital transformation, gather larger-scale data assets, expand platform scale advantages, deepen the value of data-assisted decision-making, and expand the application scenarios of "data + business".

Social contribution

The Company will leverage industrial advantages to drive social development, and create more industry revitalization projects with unique characteristics. By developing new energy projects, promote local economic development, creates employment opportunities and income generation, and supports the implementation of rural revitalization strategies. We will actively integrate into local communities, focus on key issues such as education, healthcare and infrastructure construction, conduct diverse public welfare activities to improve the quality of life for local residents.

Corporate governance

The Company will construct a comprehensive and efficient risk control system, strengthen risk management and control in five major areas. Improving rules and regulations, enhance business audit, ensure lawfulness and compliance of the Company's operation, and continuously conducting compliance and anti-corruption training for all employees, enhance their compliance awareness and foster a clean corporate environment. We will constantly optimize corporate governance structures, improve the legal and compliant management standards of listed companies, and ensure the Company's sustained, stable and healthy development.



Longyuan Imprint · Contributing to United Nations SDGs Action

The Company actively responds to the United Nations Sustainable Development Goals (SDGs), and incorporates SDGs into its daily operations and business development, integrating with various stakeholders. Through a series of initiatives, it helps implement the SDGs and promotes the sustainable development of the Company and society.

Our Actions



○ Actively support rural revitalization, achieving the highest rating for assistance work in Youyu County for nine consecutive years

- Carried out 11 support projects, with an investment of RMB 18 million in paired assistance for rural revitalization, benefiting 88,000 people in total.
- By utilizing e-commerce as a medium, the Company introduced e-commerce platforms such as CHN Energy E-commerce, Employee Dajie and Huicai Mall into Youyu County, which helped the total sales of agricultural products in Youyu County to exceed RMB 360 million.



○ Provide industrial assistance based on village policies and develop highly recognized rural specialty industries

- With a total investment of 9.2 million yuan, Youyu County assisted the construction of solar greenhouses and installed high-tech water storage irrigation equipment, promoted the construction of ecological sheep breeding demonstration base project, and increased the collective income of the village



○ Endeavor to build a “healthy enterprise” model unit to protect the health of employees

- Achieved a 100% occupational health examination rate for employees, with no cases of occupational diseases or suspected cases detected
- Provided precise assistance funds of RMB 680,700 to help 153 struggling employees



○ Implement education assistance in poor areas and provide education assistance overseas

- The outdoor hardware facilities of Dongjie Kindergarten in Youyu County have been reformed to ensure the healthy and happy growth of children, and more than 330,000 books have been donated to Youyu County and 41 book houses have been established
- Longyuan South Africa Company continuously implemented educational support programs, helping more than 500 young people complete their studies or receive re-employment training



○ Strictly comply with national labor laws and regulations, insisting on the principle of equal employment

- Insisted on the principle of equal employment and opposed employment discrimination
- Strictly implemented the leave regulations for female employees during pregnancy and maternity, all employees are eligible for non-monetary benefits, including parental leave, nursing care leave, breastfeeding leave, etc.

Our Actions



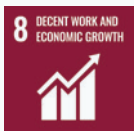
○ **Service the needs of local communities and enhance medical and health service capacity**

- Longyuan South Africa Company provided free medical services to more than 9,000 community members each year
- Selected young backbone doctors from local hospitals in Youyu County to attend training in Beijing



○ **Continuously explore the integration of new energy with other industries to provide a stable and economical supply of clean energy**

- Renewable energy power generation reached 68.383 billion KWh, and the consolidated installed capacity of new energy reached 41,143.20 MW
- Actively promoted projects such as photovoltaic sand governance, wind and fishery integration and hydrogen-based energy, and continued to explore the integration of renewable energy with various industries



○ **Facilitate development channels and conduct skills training**

- Actively promoted a new model for selecting chief talents, and added 120 newly appointed chief talents, thereby enhancing the completeness of technical and skilled personnel
- Created "Craftsmanship Training Camp", and cultivated 431 electric power inspection and maintenance talents for the Company



○ **Breakthroughs are made in scientific and technological innovation and the status in the industry is continuously enhanced**

- The first set of full-pallet domestic control system developed by the Company in the wind power industry was put into operation
- The first set of national independent offshore wind power comprehensive inspection platform "Guo Neng Hai Ce No. 1" realized the automatic launching of wind power cable inspection
- The number of new patent applications reached 221, and the total number of national and industry standards issued reached 102



○ **Eliminate child labor, prohibit forced labor, and treat employees of different nationality, race, gender, religion or cultural background fairly**

- Had a total of 7,370 employees, of which 1,126 were female and 734 were ethnic minority employees
- Required suppliers to respect the basic human rights of their employees, strictly prohibited the use of child labor, forced labor, and any behavior that violates labor laws and regulations



○ **Integrate with local industry development and support sustainable communities**

- In Youyu County, 190 forest rangers were selected to manage and protect 260,000 acres of ecological forests, increasing residents' income and consolidating greening achievements
- In Rugao, Jiangsu, The revenue from distributed photovoltaic power generation in the whole county of Rugao, Jiangsu Province amounting to RMB 240,000 was transferred to 13 administrative villages to support rural revitalization

Our Actions



○ **Enhance equipment reliability and power generation performance, take multiple measures to implement energy saving and emission reduction, and promote resource recycling**

- Enhanced equipment reliability and power generation performance, and promoted resource recycling
- Implemented refined maintenance, with a proportion of 59.7% of units running for 365 days in a long cycle
- Developed and designed the nation's first pilot production line for recycling waste wind turbine blades with a capacity of 1,000 tons per year, which was put into trial operation in Faku County, Liaoning Province



○ **Address climate change as a key strategic task with comprehensive layout and proactive action**

- Strengthened risk prevention for extreme weather events, effectively responding to multiple typhoons, including Typhoon Yagi
- Completed the first VCS emission reduction volume listing transaction on the Core Climate platform of the Hong Kong International Carbon Market
- Implemented energy-saving transformation of coal pulverizer in thermal power plants, introduced new energy alternatives for maintenance vehicles in the plants, and advocated for green office practices to reduce greenhouse gas emissions



○ **Minimize the impact of offshore wind turbines on marine life**

- The Company regularly monitored the influence of wind turbine noise on marine animals and closely observed changes of the biological resources in the reservoir area during the operation of the tidal power station
- Hired a professional natural resources and environmental protection consulting company in Hainan to monitor and assess the impact of cetaceans and other marine animals



○ **Maximize the impact of wind power and photovoltaic power plants on terrestrial organisms through prevention, supervision and monitoring**

- Studied the influence of wind power on the migration of birds and ensured sufficient space between wind turbines to allow safe passage of birds. Warning colors were used to minimize the probability of hit of birds against blades
- Hired professional natural resources and environmental protection consulting firms in Jiangsu, Guizhou and Tianjin to monitor and assess the impacts of rare birds and bats



○ **Promote compliance system construction and corporate governance system, adhere to business ethics, treating SMEs on an equal footing, and ensuring fairness and justice**

- Adhered to business ethics, opposed unfair competition and conducted regular anti-corruption training for directors, senior managers and employees
- All suppliers signed the Integrity Commitment Agreement



○ **Uphold the concept of common progress and common use, and insist on making progress, common development and common value creation with suppliers and partners**

- Required the use of green products in some technical documents of procurement equipment
- ESG management criteria were added to the newly revised supplier management rules for the first time, and ESG evaluation of major suppliers was explored

Appendix

Key Performance

Indicator	Unit	Year 2022	Year 2023	Year 2024
Governance Performance				
Corporate Governance				
Board meetings	Time	10	12	12
Committee meetings	Time	11	12	17
Non-executive director	Person	4	2	4
Female director count	Person	1	1	3
Independent director	Person	3	3	3
Female independent director count	Person	1	1	1
Business Ethics				
Legal and compliance training	Person-time	/	20,584	22,749
Anti-corruption training coverage	%	/	49.03	100
Director	%	62.50	100	100
Middle and senior manager	%	99.06	100	100
General staff	%	/	47.46	100
Business ethics disputes case	Case	0	0	0
Environmental Performance				
Use of Resources				
Total energy consumption ¹	Ton of standard coal	/	4,479,624.96	3,346,511.20
Coal consumption	Ton of standard coal	/	4,263,489.98	3,108,022.29
Natural gas consumption	m ³	/	105,198.62	71,952.80
Gasoline consumption	Ton	/	2,507.76	2,333.98
Diesel consumption	Ton	/	869.69	676.04
Total electricity usage	MWh	2,310,829.23	2,504,654.16	2,451,847.60
Thermal power business self-generated electricity consumption ²	MWh	/	810,866.19	571,312.64
Renewable energy self-generated electricity consumption	MWh	/	1,567,546.27	1,604,134.72
Net purchased electricity	MWh	/	126,241.70	276,400.24
Total heat consumption	GJ	/	2,193,090.05	1,605,694.84
Net purchased heat	GJ	/	87,246.05	87,142.84

¹Due to the difference of statistical caliber, coal consumption, gasoline consumption, total heat consumption and net purchased heat index are traced back

²Thermal power business self-generated electricity consumption is included in the total electricity consumption, but not in the total energy consumption

Indicator	Unit	Year 2022	Year 2023	Year 2024
Energy consumption intensity	Ton of standard coal/ million revenue	/	119.00	90.28
Proportion of renewable energy consumption	%	/	4.30	5.89
Total water consumption	Ton	9,403,675.35	9,368,888.28	6,673,757.23
Water intensity	Ton/million revenue	235.90	248.90	180.03
Response to Climate Change				
Total greenhouse gas emissions ³	tCO ₂ e	10,230,711.00	10,040,867.85	7,354,064.91
Scope 1 Greenhouse gas emissions	tCO ₂ e	10,226,674.00	9,959,275.14	7,186,902.32
Thermal power business scope 1 greenhouse gas emissions	tCO ₂ e	10,226,674.00	9,948,567.66	7,179,008.18
New energy business scope 1 Greenhouse gas emissions	tCO ₂ e	/	10,707.47	7,894.14
Scope 2 Greenhouse gas emissions	tCO ₂ e	4,037.00	81,592.71	167,162.59
Thermal power business scope 2 greenhouse gas emissions	tCO ₂ e	4,037.00	2,092.34	1,895.16
New energy business scope 2 greenhouse gas emissions	tCO ₂ e	/	79,500.37	165,267.43
Total greenhouse gas reduction	tCO ₂ e	/	189,843.15	2,686,802.93
Scope 1 total greenhouse gas emission reductions	tCO ₂ e	/	267,398.86	2,772,372.82
Scope 2 total greenhouse gas emission reductions	tCO ₂ e	/	-77,555.71	-85,569.88
Business intensity of greenhouse gas emissions	g/KWh	144.84	131.73	97.35
Thermal power business intensity of greenhouse gas emissions	g/KWh	835.32	832.13	842.23
New energy business intensity of greenhouse gas emissions	g/KWh	/	1.37	2.53
Pollutant Emissions				
Thermal power business sulfur dioxide emissions	Ton	605.14	514.99	368.59
Thermal power business nitrogen oxide emissions	Ton	1,390.96	1,201.13	860.43
Thermal power business dust emissions	Ton	50.58	61.45	37.34
Total wastewater discharge	Ton	/	129,031.93	108,447.00
Industrial wastewater discharges	Ton	0	0	0
Waste Treatment				
Total general waste produced	Ton	/	1,460,914.70	1,063,814.88
General waste intensity	Ton/million revenue	/	38.81	31.34
Comprehensive utilization of general waste ⁴	Ton	/	1,460,914.70	1,063,814.88

³In 2024, the Company has conducted a comprehensive analysis of energy consumption and used the emission factors from the "Guidelines for Accounting and Reporting of Enterprise Greenhouse Gas Emissions – Power Generation Facilities (Revised in 2023)" for calculation. Previously, the 2022 report did not include emissions data for the new energy business segment

⁴The Company's comprehensive utilization of general waste refers to the comprehensive utilization of general industrial solid waste such as fly ash, slag and desulphurized gypsum produced by thermal power plants

Indicator	Unit	Year 2022	Year 2023	Year 2024
Total hazardous waste produced ⁵	Ton	/	1,137.16	951.96
Waste lubricant produced	Ton	209.70	298.07	260.71
Waste lubricant disposal	Ton	182.87	273.32	262.47
Waste battery produced	Ton	129.95	186.07	276.52
Waste battery disposal	Ton	94.45	126.89	236.19
Hazardous waste intensity	Ton/million revenue	/	0.03	0.03
Renewable Energy Opportunities				
Total consolidated installed capacity ⁶	MW	31,107.84	35,593.67	41,143.20
Wind power consolidated installed capacity	MW	26,191.84	27,754.39	30,408.77
Other renewable energy consolidated installed capacity	MW	3,034.20	5,964.28	10,719.43
Newly-added new energy development quota	MW	18,367.00	19,840.00	14,720.00
Total electricity generation	MWh	70,633,024.00	76,225,815.82	75,546,209.00
Renewable energy electricity generation	MWh	60,060,361.00	65,906,020.00	68,383,218.00
Wind power electricity generation	MWh	58,308,065.00	61,352,968.00	60,550,359.00
Other renewable energy electricity generation	MWh	1,752,296.00	4,553,052.00	7,832,859.00
Wind power utilization rate	%	94.50	97.00	95.80
Wind power utilization hours	Hour	2,296	2,346	2,190
Renewable energy electricity savings of standard coal	10,000 tons of standard coal	1,759.64	1,875.47	2,033.97
Renewable energy generation is equivalent to greenhouse gas emission reduction	10,000 tCO ₂ e	5,016.94	5,480.09	5,759.44
Environmental Management				
Environmental input	RMB 100 million	2.71	5.38	6.70
Quantity of major environmental violations	Case	0	0	0
Social Performance				
Equal Employment				
Total number of employees ⁷	Person	8,842	8,752	7,370
Total number of part-time employees	Person	0	0	0

⁵The Company disposes of 100% of hazardous waste, but due to the different disposal time, there will be inconsistency between the disposal volume and the production volume during the reporting period, so some hazardous waste is not equal to the disposal of the same year

⁶The Company completed the asset divestiture of the two thermal power plants in 2024, and since September 2024, the Company no longer owns the holding installation of Jiangyin Sulong Thermal Power Co., Ltd. according to the consolidated statement; As of October 2024, the Company no longer owns the holding capacity of Nantong Tiansheng Port Power Generation Co., Ltd. according to the consolidated statement

⁷The total number of employees refers to the number of employees at the end of the reporting period, that is, excluding the personnel of the two thermal power plants, including the employees increased due to asset acquisition

Indicator	Unit	Year 2022	Year 2023	Year 2024
Total number of full-time employees	Person	8,842	8,752	7,370
by ethnicity				
Han Chinese	Person	8,159	8,065	6,605
Ethnic minorities	Person	653	658	734
Other	Person	30	29	31
by gender				
female	Person	1,315	1,323	1,126
male	Person	7,527	7,429	6,244
by age				
30 and under	Person	2,273	2,424	2,244
30-50	Person	5,229	5,017	4,391
50 and over	Person	1,340	1,311	735
by education				
graduate degrees or above	Person	687	737	899
bachelor's degrees	Person	5,570	5,695	5,207
associate degrees or below	Person	2,585	2,320	1,264
by region				
Chinese mainland	Person	8,811	8,721	7,337
Hong Kong, Macao, and Taiwan	Person	1	2	2
Overseas	Person	30	29	31
Employment contract signing rate	%	100	100	100
Social insurance coverage rate	%	100	100	100
Labor union members	Person	8,578	8,574	7,370
New hires of the year ⁸	Person	312	334	396
Average paid leave per employee	Day	7.42	7.76	6.72
Turnover ⁹	Person	228	194	139
Rate of turnover	%	2.58	2.22	1.89
by gender				
female	%	5.10	2.87	2.75
male	%	2.14	2.10	1.73
by age				
30 and under	%	/	1.73	1.60
30-50	%	/	0.74	1.07
over 50	%	/	8.77	7.62
by education				
graduate degrees or above	%	/	4.21	2.67
bachelor's degrees	%	/	1.40	1.57
associate degrees or below	%	/	3.58	2.61

⁸New hires of the year does not include the number of employees increased due to asset acquisitions

⁹Due to business adjustment, the Company divested two thermal power plants, whose personnel were not included in the turnover rate

Indicator	Unit	Year 2022	Year 2023	Year 2024
by region				
Chinese mainland	%	2.59	2.22	1.89
Overseas	%	/	3.45	0
Hong Kong, Macao, and Taiwan	%	0	0	0
Expenditure on employee assistance	RMB 10,000	95.73	65.72	68.07
Number of employees assisted	Person	126	131	153
Staff development and training				
Expenditure on employee training	RMB 10,000	4,291.99	5,411.08	5,662.97
Staff training times	Time	/	/	11,008
Employees participating in training	Person	7,610	8,016	6,856
Employee training coverage	%	86.07	91.59	93.03
by gender				
female	%	14.46	14.25	15.05
male	%	85.54	85.75	84.95
by management level				
senior management	%	0.11	0.10	0.35
middle management	%	7.86	8.54	16.98
ordinary employees	%	92.03	91.36	82.67
by job category				
production staff	%	64.99	53.47	65.43
management, professional, and technical staff	%	30.25	45.97	33.45
other staff	%	4.76	0.56	1.12
Average training hours per employee	Hour	161.91	141.90	210.32
by gender				
female	Hour	90.60	61.49	61.94
male	Hour	173.97	155.27	233.36
by management level				
senior management	Hour	61.00	80.00	71.96
middle management	Hour	93.52	96.55	182.76
ordinary employees	Hour	168.01	146.31	212.55
Occupational Health and Safety Production				
Employees receiving occupational health and safety training	Person-time	10,962	37,937	37,358
Expenditure on occupational health and safety	RMB 10,000	29,878.17	29,851.53	25,599.43
Amount of workers' compensation insurance contributions	RMB 10,000	/	/	1,538.15
Employee coverage of work-related injury insurance	%	/	/	100
Amount of investment in production safety liability insurance	RMB 10,000	/	/	293.41

Indicator	Unit	Year 2022	Year 2023	Year 2024
Coverage rate of workers insured by work safety liability insurance	%	/	/	23.20
Day off for injury	Day	906	998	325
Number of work-related deaths	Person	0	0	0
Number of deaths due to occupational injuries	%	0	0	0
New occupational diseases	Person	0	0	0
Emergency exercises	Time	/	2,580	1,840
Equipment Security				
Major equipment accidents	Case	0	0	0
Supply Chain Management System				
Total number of suppliers	Supplier	7,267	7,983	3,281 ¹⁰
Number of domestic suppliers	Supplier	7,150	7,801	3,084
Number of overseas suppliers	Supplier	115	179	193
Number of suppliers in Hong Kong, Macao, and Taiwan	Supplier	2	3	4
Number of supplier evaluation	Supplier	1,529	1,644	467 ¹¹
Technological Progress				
Total number of patents granted	Item	/	540	653
Number of valid patents	Item	/	/	396
Number of patents granted during the reporting period	Item	/	/	74
Patent applications for inventions	Item	/	/	20
Patent applications for utility models	Item	/	/	54
Number of new patent applications	Item	80	88	221
Patent applications for inventions	Item	44	45	125
Patent applications for utility models	Item	36	43	96
Establishment of national or industry standards	Item	/	15	11
Amount of R&D investment	RMB 100 million	1.11	2.37	5.23
R&D investment intensity	%	0.28	0.63	1.41
Number of R&D personnel	Person	269	660	720
Educational structure of R&D personnel				
Bachelor	Person	124	346	434
Master	Person	125	196	221

¹⁰The total number of suppliers does not include the number of supplies from the two thermal power plants divested by the Company in 2024

¹¹In 2024, the Company increased its collection efforts, and the number of suppliers in the transaction decreased year-on-year, so the number of supplier evaluations decreased

Indicator	Unit	Year 2022	Year 2023	Year 2024
Doctor	Person	20	21	21
Age composition of R&D personnel				
Under 30	Person	93	95	165
30-40	Person	151	390	429
The proportion of R&D personnel	%	3.04	7.54	9.87
Number of national-level R&D platforms ¹²	Item	1	1	1
Community Feedback				
Total donations to external beneficiaries ¹³	RMB 10,000	9,833	10,622	8,687.50
Investment in charitable projects	RMB 10,000	8,033	8,822	6,887.50
Investment of beneficiaries of rural revitalization	RMB 10,000	1,800	1,800	1,800
Industrial assistance	RMB 10,000	300	580	920
Educational assistance	RMB 10,000	950	340	60
Medical assistance	RMB 10,000	0	310	200
Infrastructure assistance	RMB 10,000	250	240	320
Ecological assistance	RMB 10,000	200	200	200
Talent assistance	RMB 10,000	100	130	100
Number of groups benefiting from social contribution activities ¹⁴	Person	/	/	42,753
Number of employee volunteer services	Person-time	3,669	3,861	2,175
Total hours of employee volunteer services	Hour	19,889.20	5,009.00	4,361.70
Funds introduced for public welfare projects	RMB 10,000	30.00	85.00	31.17
Cumulative employment opportunities created overseas (operation phase)	Person	127	122	121
Total investment in overseas community welfare	RMB 10,000	625.00	735.37	1,259.77
Total number of beneficiaries of overseas assistance and public welfare	Person	13,914	9,088	9,401
Expenditure on localization procurement in overseas	RMB 10,000	34,977.15	36,527.45	39,749.75

¹²The number of national R&D platforms is cumulative

¹³Due to the adjustment of statistical caliber, the total amount of the company's foreign donations includes the foreign donations through the National Energy Foundation, the investment in public charity projects and the fixed-point assistance investment in rural revitalization, and the data for 2022 and 2023 are retroactively adjusted

¹⁴It does not include 88,000 beneficiaries of designated assistance in Youyu County and 9,401 overseas public welfare benefits

Indicator Index

Corresponding Section	GRI Standards	ESG Reporting Guide of HKEx	Self-Regulatory Guidelines for Listed Companies No. 17 – Sustainability Report (for Trial Implementation) of Shenzhen Stock Exchange	Guidelines for Corporate Sustainability Reporting in China (CASS-ESG 6.0) of Chinese Academy of Social Sciences
About This Report	2-1, 2-2, 2-3, 2-4	Reporting principles, scope of reporting	-	P1.1, P1.2
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GREEN: Dedicate to Clean Energy				
Expand green power	203-2	B6 General disclosure, B6.4	Articles 20, 47	E3.1.4, E3.1.5, S3.3.1.
Leading technological innovation	301-2	-	Articles 41, 42	S2.1.1, S2.1.2, S2.1.3, S2.1.4, S2.1.6, S2.1.9, S2.1.12, S2.1.13
NATURE: Chart the Ecological Future				
Address climate change	201-2, 302-3, 302-4, 305-1, 305-2, 305-4, 305-5	28(a), 28(b), 19(a), 19(b), 20(a), 20(b), 20(c), 20(d), 22(a)	Articles 21, 22, 23, 24, 27, 28	E1.1.1, E1.1.2, E1.1.3, E1.1.4, E1.1.6, E1.1.7, E1.1.8, E1.1.10, E1.1.11, E1.1.15
Strengthen environmental management	303-2, 305-7, 306-1, 306-2, 306-3	A1 General disclosure, A1.5	Articles 29, 31, 33	E2.1.1, E2.1.5, E2.1.6, E2.2.7
Protect natural ecology	101-1, 101-2, 101-4, 101-7, 304-1, 304-2, 304-3, 304-4	A3 General disclosure, A3.1	Article 32	E2.3.2, E2.3.3
Optimize resource utilization	306-2	A2 General disclosure, A2.3, A2.4	Articles 34, 35, 36, 37	E3.1.5, E3.2.3, E3.2.4, E3.3.2, E3.3.4

Corresponding Section	GRI Standards	ESG Reporting Guide of HKEx	Self-Regulatory Guidelines for Listed Companies No. 17 – Sustainability Report (for Trial Implementation) of Shenzhen Stock Exchange	Guidelines for Corporate Sustainability Reporting in China (CASS-ESG 6.0) of Chinese Academy of Social Sciences
TRUST: Be People Oriented				
Protect employee rights and interests	2-7, 2-8, 2-19, 2-20, 2-27, 201-3, 401-2, 401-3, 406-1, 408-1, 409-1	B1 General disclosure, B1.1, B4 General disclosure, B4.1	Article 49	S4.1.2, S4.1.4, S4.1.5, S4.1.6, S4.1.8, S4.1.10, S4.1.12
Focus on employee development	401-1, 404-1, 404-2	B3 General disclosure.	Article 50	S4.1.1, S4.1.3, S4.3.1, S4.3.2, S4.3.3, S4.3.5, S4.3.6
Safeguard employee safety	403-1, 403-2, 403-3, 403-4, 403-5, 403-6, 403-7, 403-9, 403-10	B2 general disclosure, B2.3.	Article 50	S4.2.2, S4.2.4
Enrich spare-time life	201-3	-	-	-
VALUE: Serve the Overall Situation of Development				
Deepen supply chain management	2-8, 2-28, 308-2, 408-1, 409-1	B5 General disclosure, B5.2, B5.4	Article 44	S3.1.1, S3.1.2, S3.11.3, S3.1.4
Contribute to a better society	203-1, 203-2, 413-1	B8 General disclosure, B8.1, B8.2	Articles 38, 39, 40	S1.1.1, S1.1.2, S1.1.3, S1.1.5, S1.2.1, S1.2.2, S1.2.3, S1.2.6
Strengthen Data Security	-	-	Articles 45, 48	S3.4.1, S3.4.2
Our commitment	-	-	-	A1
Longyuan imprint· Contributing to United Nations SDGs action	2-7, 201-2, 203-1, 205-2, 301-2, 304-1, 304-2, 304-4, 401-3, 403-6, 403-7, 404-2, 405-1, 406-1, 408-1, 409-1, 413-1	-	-	S1.1.4.
Performance Appendix	302-1, 302-3, 302-4, 303-4, 303-5, 305-1, 305-2, 305-3, 305-4, 305-5, 305-7, 306-3, 306-4, 306-5, 401-1, 403-9, 403-10, 404-1, 404-3	A1.1, A2.1, A2.2, B1.2, B2.1, B2.2, B3.1, B3.2, B5.1, B8.1, B8.2, 29 (a)	-	S1.1.4.
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Assurance Report



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Independent Practitioner's Limited Assurance Report

To the Board of Directors of China Longyuan Power Group Corporation Limited:

Report on selected information in China Longyuan Power Group Corporation Limited's Environmental, Social and Governance Report as of and for the year ended 31 December 2024

Conclusion

We have performed a limited assurance engagement on the following information in China Longyuan Power Group Corporation Limited ("Longyuan Power")'s Environmental, Social and Governance Report ("sustainability report") as of and for the year ended 31 December 2024 (hereafter referred to as "the assured sustainability information"):

Total electricity usage	For the year ended 31 December 2024
Total water consumption	For the year ended 31 December 2024
Coal consumption	For the year ended 31 December 2024
Total greenhouse gas emissions	For the year ended 31 December 2024
Waste lubricant produced	For the year ended 31 December 2024
Number of new patent applications	For the year ended 31 December 2024
Investment of beneficiaries of rural revitalization	For the year ended 31 December 2024
Amount of R&D investment	For the year ended 31 December 2024
Number of work-related deaths	For the year ended 31 December 2024
Day off for injury	For the year ended 31 December 2024
Total number of employees	As of 31 December 2024
Total number of employees-female	As of 31 December 2024
Total number of employees-overseas	As of 31 December 2024
Total number of employees-ethnic minorities	As of 31 December 2024
Rate of turnover-employees	As of 31 December 2024

KPMG Huazhen LLP, a People's Republic of China partnership and a member firm of the KPMG global organisation of independent member firms affiliated with KPMG International Limited, a private English company limited by guarantee.

毕马威华振会计师事务所(特殊普通合伙) — 中国合伙制会计师事务所, 是与英国私营担保有限公司 — 毕马威国际有限公司相关联的独立成员所全球性组织中的成员。



Independent Practitioner's Limited Assurance Report (continued)

Based on the procedures performed and evidence obtained, nothing has come to our attention to cause us to believe that Longyuan Power's assured sustainability information as of and for the year ended 31 December 2024 is not prepared, in all material respects, in accordance with the Criteria set out in the appendix to this report.

Our conclusion on the assured sustainability information does not extend to any other information that accompanies or contains the assured sustainability information and our assurance report (hereafter referred to as "other information"). We have not performed any procedures as part of this engagement with respect to the other information.

Basis for conclusion

We conducted our engagement in accordance with *International Standard on Assurance Engagements (ISAE) 3000 (Revised)*, issued by the International Auditing and Assurance Standards Board (IAASB). Our responsibilities under those standards are further described in the "Our responsibilities" section of our report.

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 (IESBA), which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality, and professional behaviour.

Our firm applies International Standard on Quality Management (ISQM) 1, *Quality Management for Firms that Perform Audits or Reviews of Financial Statements, or Other Assurance or Related Services Engagements*, issued by the IAASB. This standard 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.

We believe that the evidence we have obtained is sufficient and appropriate to provide a basis for our conclusion.

Other matter

The sustainability information as of and for the year ended 31 December 2023 was not subject to our limited assurance engagement and, accordingly, we do not express a conclusion or provide any assurance on such information. Our conclusion is not modified with respect to this matter.

Restriction on use

This report is made solely to the board of directors, and for no other purpose. We do not assume responsibility towards or accept liability to any other person for the contents of this report. Our conclusion is not modified in respect of this matter.



Independent Practitioner's Limited Assurance Report (continued)

Responsibilities for the assured sustainability information

The directors of Longyuan Power are responsible for:

- designing, implementing and maintaining internal control relevant to the preparation of the assured sustainability information that is free from material misstatement, whether due to fraud or error;
- selecting or developing suitable criteria for preparing the assured sustainability information and appropriately referring to or describing the criteria used; and
- preparing the assured sustainability information in accordance with the criteria set out in the appendix to this report.

Those charged with governance are responsible for overseeing Longyuan Power's assured sustainability information reporting process.

Inherent limitations in preparing the assured sustainability information

The absence of a significant body of established practice on which to draw to evaluate and measure non-financial information allows for different, but acceptable, measures and measurement techniques and can affect comparability between entities.

Our responsibilities

We are responsible for:

- planning and performing the engagement to obtain limited assurance about whether the assured sustainability information is free from material misstatement, whether due to fraud or error;
- forming an independent conclusion, based on the procedures we have performed and the evidence we have obtained; and
- reporting our conclusion to the board of director of Longyuan Power .



Independent Practitioner's Limited Assurance Report (continued)

Summary of the work we performed as the basis for our conclusion

We exercised professional judgment and maintained professional skepticism throughout the engagement. We designed and performed our procedures to obtain evidence about the assured sustainability information that is sufficient and appropriate to provide a basis for our conclusion. Our procedures selected depended on our understanding of the assured sustainability information and other engagement circumstances, and our consideration of areas where material misstatements are likely to arise. In carrying out our engagement, we:

- interviewing the employees of relevant departments engaged to provide the assured sustainability information;
- implementing analytical procedures on the assured sustainability information;
- carrying out sampling inspection on the assured sustainability information;
- performing recalculation on the assured sustainability information; and
- other necessary procedures.

The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed.

KPMG Huazhen LLP
Beijing, China
28 March 2025





Appendix: Standards

The assured sustainability information of China Shenhua Energy Company Limited's Environmental, Social and Governance (hereafter referred to as "Sustainability Report") is prepared in accordance with the related requirements of the Guidelines on the Environmental, Social and Governance Reporting Guide as set out in Appendix C2 to the Main Board Listing Rules of Hong Kong Exchanges and Clearing Limited.

Total electricity usage (MWh):

The total electricity usage disclosed in the sustainability report refers to total electricity usage by Longyuan Power's production and operation enterprises.

Total water consumption (Ton):

The total water consumption disclosed in the sustainability report refers to the total amount of water resources taken from the outside by the production and operation enterprises affiliated to Longyuan Power, including total fresh water, recycled water and other alternative water.

Coal consumption (Ton of standard coal):

The coal consumption disclosed in the sustainability report refers to the bituminous coal consumed by Longyuan Power's production and operation enterprises.

Total greenhouse gas emissions (tCO₂e):

The total greenhouse gas emissions disclosed in the sustainability report refers to the sum of the total amount of Scope 1 emissions and Scope 2 emissions of the production and operation enterprises affiliated to Longyuan Power.

Waste lubricant produced (Ton):

The waste lubricant produced disclosed in the sustainability report refers to the total amount of waste lubricating oil generated by Longyuan Power's production and operation enterprises.

Number of new patent applications (Item):

The number of new patent applications disclosed in the sustainability report refers to the total number of new patent applications (including invention patents and utility model patents) by Longyuan Power in 2024.

Investment of beneficiaries of rural revitalization (RMB 10 thousand):

The investment of beneficiaries of rural revitalization disclosed in the sustainability report refers to the total amount of money invested by Longyuan Power in rural revitalization.



Standards (continued)

Amount of R&D investment (RMB 100 million):

The amount of R&D investment disclosed in the sustainability report refers to the total amount of money invested by Longyuan Power in various R&D activities.

Number of work-related deaths (Person):

The number of work-related deaths disclosed in the sustainability report refers to the number of regular employees and contractor employees of Longyuan Power who died in the workplace due to workplace accidents in 2024.

Day off for injury(Day):

The day off for injury disclosed in the sustainability report refers to the total number of workdays lost by all employees injured at work in 2024 at Longyuan Power.

Total number of employees (Person):

The total number of employees disclosed in the sustainability report refers to the total number of regular employees of Longyuan Power as at 31 December 2024, excluding labour dispatched contractors.

Total number of employees-female (Person):

The total number of female employees disclosed in the sustainability report refers to the total number of regular female employees of Longyuan Power as at 31 December 2024, excluding labour dispatched contractors.

Total number of employees-overseas (Person):

The total number of overseas employees disclosed in the sustainability report refers to the total number of regular overseas employees of Longyuan Power as at 31 December 2024, excluding labour dispatched contractors.

Total number of employees-ethnic minorities (Person):

The total number of ethnic minority employees disclosed in the sustainability report refers to the total number of regular ethnic minority employees of Longyuan Power as at 31 December 2024, excluding labour dispatched contractors.

Rate of turnover-employees (%):

The total employee turnover rate disclosed in the sustainability report refers to the ratio of the total number of employees who voluntarily resigned and retired from Longyuan Power in 2024 to the total number of employees at year-end.

Comments & Feedback

Dear stakeholders,

Thank you very much for taking the time to review the 2024 Sustainability Report of China Longyuan Power Group Corporation during your busy day. We sincerely invite you to complete the Comments & Feedback to inform you of your valuable opinions on the ESG performance and report of Longyuan Power, and help us further improve our ESG management capabilities.

Multiple-choice questions (please mark ☐ on your answer)

1.What type of stakeholders you belong to?

- ☐ Government Official ☐ Regulator ☐ Shareholder & Investor ☐ Employee ☐ Customer
- ☐ Vendor & Partner ☐ Community Resident ☐ Other

2.What is your overall evaluation for the ESG Report of the Company?

- ☐ Very good ☐ Good ☐ General ☐ Poor ☐ Very poor

3.What do you think about the quality of the ESG information disclosed in this report?

- ☐ Very good ☐ Good ☐ General ☐ Poor ☐ Very poor

4.What do you think about the structure of this report?

- ☐ Very good ☐ Good ☐ General ☐ Poor ☐ Very poor

5.How do you think about the layout and design of this Report?

- ☐ Very good ☐ Good ☐ General ☐ Poor ☐ Very poor

5.What do you think about the readability of this report?

- ☐ Very good ☐ Good ☐ General ☐ Poor ☐ Very poor

Open-ended question

You are welcome to make comments and suggestions for this report.

Please kindly provide us with your information if convenient:

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 This report adopts eco-friendly paper



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Longyuan Power