



**华电国际电力股份有限公司**  
HUADIAN POWER INTERNATIONAL CORPORATION LTD.

Stock Abbreviation: Huadian Power International  
Stock Code: 600027.SH; 1071.HK  
Stock Exchange: Shanghai Stock Exchange;  
The Stock Exchange of Hong Kong



**ESG**

Environmental,  
Social and Governance (ESG) Report

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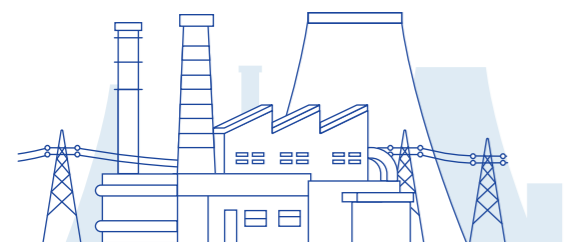
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# About this Report

Since 2010, Huadian Power International Corporation Limited (hereinafter referred to as "the Company" or "Huadian Power International") and its subsidiaries (collectively referred to as "the Group") have actively published social responsibility reports. Beginning in 2016, in accordance with the requirements of the Hong Kong Stock Exchange and the Shanghai Stock Exchange, including their ESG reporting guides, the Company has incorporated its work related to environmental, social, and governance (ESG) into its reports. This Huadian Power International Corporation Limited Environmental, Social and Governance Report (the "Report") is the eighth annual standalone ESG report published by the Company, which aims to report relevant information on the Group's fulfillment of ESG responsibilities in 2023 and respond to the ESG issues that are of major concern to stakeholders. The Report is to be read in conjunction with the "Corporate Governance Report" section of Huadian Power International Corporation Limited 2023 Annual Report ("2023 Annual Report"), to provide a more comprehensive overview on the ESG performance of the Group.

## Reporting Scope

Unless otherwise stated, the organizational scope of the Report covers the Company and its subsidiaries. The reporting period covered in the Report is consistent with that stated in the 2023 Annual Report, which is from 1 January 2023 to 31 December 2023 (the "Reporting Period"). Where necessary, some of the contents goes beyond the aforesaid period so as to enhance the comparability of the Report.

## References

The Report is prepared in accordance with the Environmental, Social and Governance Reporting Guide (the "Guide") under Appendix C2 to the Rules Governing the Listing of Securities of Stock Exchange of Hong Kong Limited issued by the Stock Exchange of Hong Kong Limited (the "SEHK"), and "Chapter 8 Social Responsibility" in the No. 1 Self-Regulatory Guidelines for Listed Companies of Shanghai Stock Exchange - Standardized Operation issued by the Shanghai Stock Exchange. It also takes a reference to the ESG requirements in the Work Plan for Improving the Quality of Listed Companies Owned by Centrally Administered State-owned Enterprises issued by State-owned Assets Supervision and Administration Commission of the State Council ("SASAC"), the Reference of ESG Indicators System for ESG Reports of Listed Companies Controlled by Central Enterprises, and the GRI Sustainability Reporting Standards issued by the Global Reporting Initiative (GRI).

## Reporting Principles

The Report complies with the mandatory disclosure requirements and "comply or explain" provisions set out in the Guide and is prepared based on the four reporting principles of "materiality", "quantitative", "balance" and "consistency". During the preparation of the Report, the Group applied the reporting principles as follows:

- ④ **Materiality:** Based on the results of stakeholder communication and using materiality assessment, the Group's materiality issues during the Reporting Period were identified, and then this Report is prepared around materiality issues. Please refer to the content in "Materiality Issues Assessment" in the Report for details;
- ④ **Quantitative:** Disclose the standards, methodologies and applicable assumptions used for quantitative information where appropriate;
- ④ **Balance:** The Report provides an unbiased picture of the issuer's performance. The Report avoids selections, omissions, or presentation formats that may inappropriately influence a decision or judgment by the Report reader;
- ④ **Consistency:** Where feasible and unless otherwise stated, the disclosure and statistical methods is consistent with previous reports to ensure meaningful comparisons.

## Information Description

The information contained in the Report is sourced from the Group's formal documents and statistical reports. Unless otherwise specified, the currency mentioned is accounted by RMB. The Board of Directors of the Company (the "Board"), the Board of Supervisors and the directors, supervisors and senior management of the Company warrant that the Report does not contain any misrepresentations, misleading statements or material omissions, and are jointly and severally liable for the authenticity, accuracy and completeness of the information contained in the Report.

## Data Source

Unless otherwise indicated, all information and data referenced in this report is based on the Company's internal documentation or relevant public documents. This report has been reviewed and approved by the Company's Board of Directors. The Board of Directors of the Company warrants that this report contains no inaccurate records, misleading statements or major omissions.

## Monetary Unit

Unless otherwise indicated, all monetary amounts are listed in RMB for this report.

## Report Preparation Process

This Report is compiled through stages including data collection, framework establishment, report writing, report design, and review by departments and executives.

## Access to the Report

The Report is published in both Chinese and English. In case of any discrepancy, the Chinese version shall prevail. You are welcome to access the Chinese and English version of the Report in a PDF format through the Company's website ([www.hdpi.com.cn](http://www.hdpi.com.cn)), website of the Shanghai Stock Exchange, and HKEX.

## Contact Information

Your feedback is immensely important for the Group to continually enhance its environmental and social performance. If you have any questions or suggestions regarding the Report, please contact the Company via the following ways:

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# Message from the Management

In 2023, guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, and thoroughly implementing the spirit of the 20th National Congress of the Communist Party of China and the Second Plenary Session of the 20th Central Committee, under the correct leadership of the Group's Party Committee and the Board of Directors, Huadian Power International aimed to build a strong and large first-class energy listed company. Focusing on improving the quality of the listed company as the main task, the Group set clear targets, worked hard and pragmatically, overcame difficulties, took initiative, and solidly carried out work in safety and environmental protection, transformation and development, quality and efficiency improvement, internal control compliance, and strict Party self-governance, comprehensively exceeding the annual goals and tasks.

## The Group promoted green and low-carbon transformation, adhering to high-quality development.

It earnestly fulfilled the social responsibilities of a listed company, urging all regions to effectively assume their main responsibilities for environmental protection and compliance with emission standards, with no incidents of exceeding emission standards occurring throughout the year. Solidly carried out supervision and benchmarking analysis of major energy consumption indicators, timely proposing targeted energy-saving and consumption-reducing suggestions, promoting dynamic optimization of coal consumption and maintaining a leading position in such aspect. The Group kept track of carbon market dynamics, understood the current progress and operating models of carbon market construction, advanced the development of a carbon asset visualization analysis and operational performance evaluation system, improved the management and operation level of carbon assets, and all 46 subsidiary enterprises of the Group included in the carbon asset control and emission enterprise list completed their obligations for the 2021-2022 period.

## The Group places great emphasis on giving back to partners, adhering to innovation and development.

We adhere to a "people-oriented" approach, perfecting our talent cultivation mechanisms to attract and invigorate talent. We enhance employee welfare protections, care for female employees, advance democratic management, provide career development platforms, and effectively help employee to feel happier. We solidify our safety defenses, comprehensively elevating our workplace safety management level. We continue to deepen reforms of the scientific and technological innovation system, going all out to win the battle for key core technologies. We promote responsible and transparent procurement, implementing full lifecycle management of suppliers. We leverage our resource advantages to serve rural revitalization.

## The Group always practices the concept of strengthening foundations, insisting on steady development.

We integrate the Party's leadership deeply into corporate governance, continuously improving the governance structure, establishing and perfecting a modern corporate system. The Company's "three meetings" governance system operates smoothly, successfully completing the Board of Directors' term renewal. We highly value investor relations management, establish good communication channels, and actively protect investors' rights and interests. We focus on improving internal control construction, enhance the compliance and risk control system, and strictly solidify the foundation of compliance and risk control management.

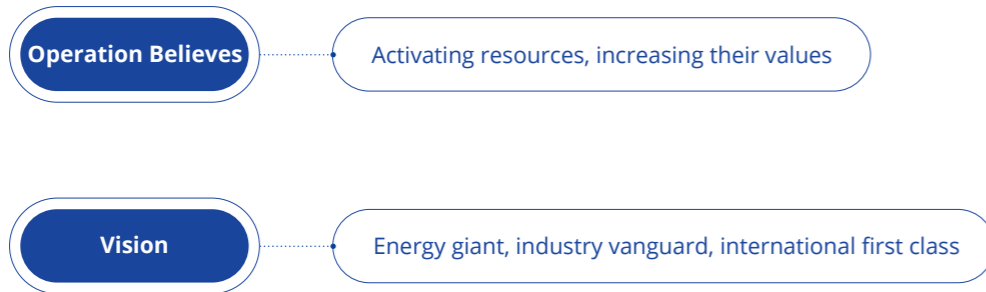
In 2024, we will join hands with all parties to explore the path to sustainable development!

# About Huadian Power International

## Company Profile

The Company is a power generation enterprise incorporated in Jinan, Shandong Province, the People's Republic of China. After years of development, the Group has become one of the largest comprehensive energy companies in the PRC. The Group is primarily engaged in the construction, operation and management of power plants, including large-scale efficient coal-fired, gas-fired and hydro-electric power generating units. Over the years, the Group has always adhered to the scientific outlook on development, highlighted value-based thinking idea, and taken company strategies as the guide to speed up structural adjustment, and made persistent efforts in seizing development opportunities, improving efficiency, reinforcing management and leading working teams. With the building up of its overall strength, the Group's power generating assets are located in 12 provinces, autonomous regions and municipalities across the PRC at the prime location, mainly in the electricity and heat load centers or regions with abundant coal resources.

In 2023, the Company was honored with the "Best Practice Case of the Board of Directors of Listed Companies 2023" by the China Association of Listed Companies and the "Best Listed Company" award at the 13th China Securities Golden Bauhinia Awards.



## Business Overview

For a long time, in line with the direction of clean, low-carbon, safe and efficient, the Group has actively promoted comprehensive energy service projects, paid close attention to the development of emerging technologies, actively studied and explored new forms of business such as energy storage and geothermal energy, strived to promote technological application innovation and resource management innovation, improved resource integration and utilization efficiency, expanded space and dimensions of development, and enhanced development performance.



## Events of the Year

<p>Achieved the highest A-level rating in information disclosure on the <b>Shanghai Stock Exchange for 9 consecutive years</b></p>	<p>Won the <b>"Best Listed Company"</b> award of China Securities Golden Bauhinia Award for 5 consecutive years</p>
<p>Rated as an A-level taxpayer in the Tax Credit Rating by the <b>State Administration of Taxation for 4 consecutive years</b></p>	<p>Awarded the <b>"1st CRHC Cup ESG Golden Bull Award Top 100"</b> award</p>
<p>The Board of Directors was honored with the <b>"Bet Practice Case"</b> award by the China Association of Public Companies in 2023.</p>	

# 01 Strengthening Governance Strategies by Practicing Ethics and Integrity

The Group has always pursued the core values of "conscientiousness, integrity, innovation and harmony", and constantly deepened and improved the level of corporate management. Through continuous exploration and practice, the Company has formed a standardized management structure and an effective internal supervision system to ensure the efficiency and effectiveness of corporate governance.

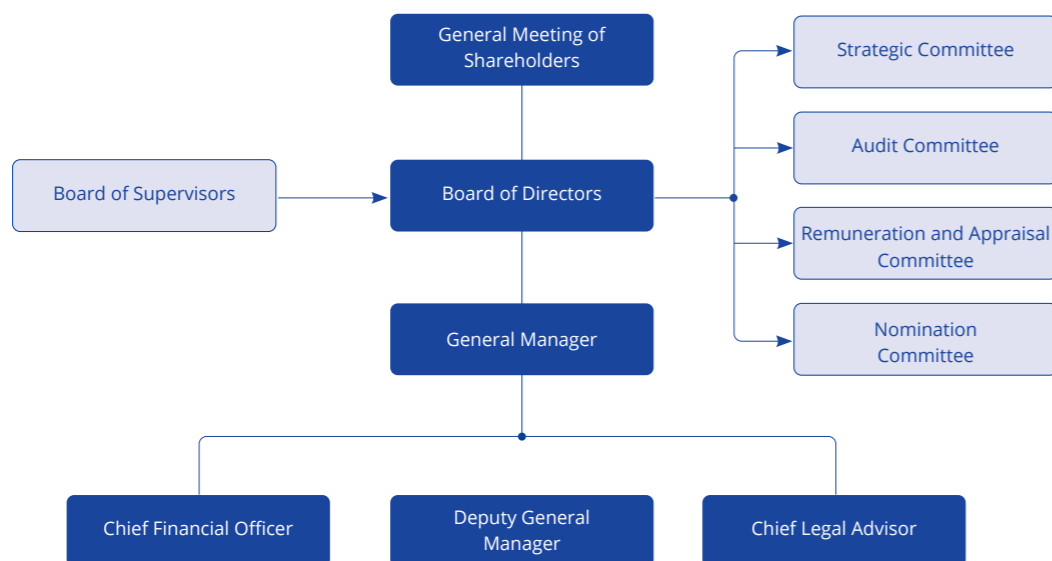
- Corporate Governance
- Risk Management
- Protection of shareholders' rights
- Investor Relation Management
- Transparent Information Disclosure
- ESG Management



# Corporate Governance

The Company has always attached great importance to the corporate governance and constantly promoted management innovation. By acting in strict compliance with the Company Law of the PRC, the Securities Law of the PRC, the Rules Governing the Listing of Stocks on Shanghai Stock Exchange, the Rules Governing the Listing of Securities of SEHK and relevant provisions promulgated by domestic and overseas securities regulatory institutions, the Company continues to improve its governance structure and enhance its governance level, and strives to achieve a coordinated development between the growth of the Company and the interests of shareholders.

After years of exploration and practice, the Company has established a relatively mature corporate governance structure and corresponding organizational regulations, which specifies the responsibility and rights of the General Meeting of Shareholders, the Board of Directors and the Board of Supervisors. The Board of Directors is responsible for the leadership and oversight of the Company. To ensure good corporate governance, the Board of Directors has established four specified working bodies, including the Audit Committee, the Remuneration and Appraisal Committee, the Nomination Committee and the Strategic Committee, and formulated their terms of reference in accordance with relevant regulations. During the Reporting Period, the General Meeting of Shareholders, the Board of Directors, the Board of Supervisors and other decision-making and supervisory bodies of the Company operated in a regulated and effective manner, and all the specialized working bodies performed their respective duties well.



The General Meeting of Shareholders, as the highest governing body of the Company, represents the investors to fulfill shareholder responsibilities. The Board of Directors, as the decision-making body of the Company, decides on major company matters in accordance with legal procedures and the Company's Articles of Association, playing the role of "setting strategy, making decisions, and preventing risks."

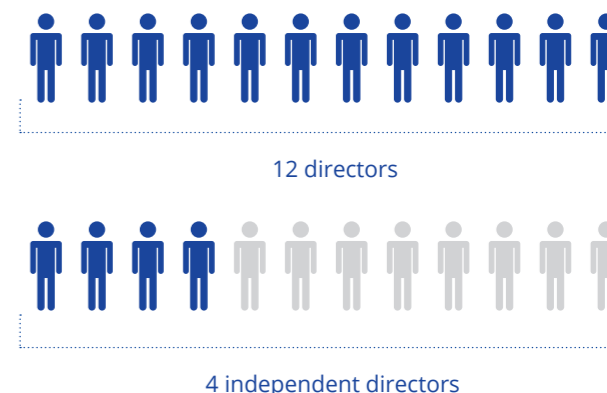
- **The Board of Directors** has established four specialized committees for strategy, audit, nomination, remuneration, and assessment, effectively leveraging the professional support of external directors in major decisions and enhancing the scientific decision-making of the Board.
- **The Board of Supervisors**, as the supervisory body of the Company, oversees the work and execution of the Board of Directors and the management layer. The management layer, as the executive body of the Company, implements the decisions of the Board of Directors on management matters, playing the role of "planning operations, ensuring implementation, and strengthening management."
- **The management layer** is responsible for organizing and implementing the resolutions of the General Meeting of Shareholders and the Board of Directors, and managing the daily business operations of the Company.

## Appointment of Board of Directors and Board of Supervisors

The Company appoints and dismisses directors and supervisors in accordance with the Company's Articles of Association. Directors of the Company are elected or replaced by the General Meeting of Shareholders and may be dismissed from their positions by the General Meeting of Shareholders before the expiration of their term. The term of office for directors is three years, and upon expiration, they may be re-elected for consecutive terms. The term of office for the Company's supervisors is also three years. Supervisors appointed by shareholders are elected or replaced by the General Meeting of Shareholders through a cumulative voting system, while supervisors appointed by employees are elected democratically through workers' congresses, workers' meetings, or other forms. Upon the expiration of their term, supervisors may be re-elected for consecutive terms.

## Diversification in the Board of Directors

The Company adheres to high standards, professionalism, and diversity in appointing directors, fully considering factors such as industry experience, professionalism, and background of board members during the selection process to ensure the diversity of the Board of Directors' composition. The Board of Directors is composed of 12 directors, including 4 independent directors. The Company's directors have professional backgrounds in management, law, accounting, electricity, etc. The knowledge structure and professional fields of the directors are both professional and complementary to each other, achieving professional, scientific, and effective supervision in various fields.



# Risk Management

The Company has formulated a relatively sound risk management and internal control system based on the Group's business scope and operational status. The Board is responsible for the ongoing supervision of the Company's risk management and internal control system and for reviewing and confirming the effectiveness of the system for Group's risk management and internal control.

## Improving Internal Control and Risk Management

### Strengthening Risk Management

The Company has formulated a relatively sound risk management system based on its business scope and operational status. The Board is responsible for the ongoing supervision of the Company's risk management, and for reviewing and confirming the effectiveness of the system for Group's risk management. The Company also has a dedicated department to regularly review the adequacy and effectiveness of the Group's risk management system, and the Audit Committee reviews the department's work reports and recommendations on the effectiveness of the primary control system. In the process of risk assessment, as the first-level responsible party of risk identification, the business departments that face risks need to identify the major risks. After considering the countermeasures against major risks, they will make a secondary assessment of the remaining risks and report to the Company's management and decision-making level.

### Strengthening Internal Control Management

The Company has formulated a relatively sound risk management and internal control system based on its business scope and operational status. The Board is responsible for the ongoing supervision of the Company's risk management and internal control system and for reviewing and confirming the effectiveness of the system for Group's risk management and internal control. The Company also has a dedicated department to regularly review the adequacy and effectiveness of the Group's risk management and internal control system, and the Audit Committee reviews the department's work reports and recommendations on the effectiveness of the primary control system.

During the Reporting Period, the Company carried out risk identification and assessment for 2023, formed a risk management list, and identified the top 10 operational risks. The legal review rate for major decisions, economic contracts, and systems reached 100%.



# Protection of shareholders' rights

In accordance with the relevant laws and regulations, our Company continuously improves investor relations management, strictly adheres to information disclosure requirements, and ensures that information is disclosed in a truthful, accurate, complete, timely, and fair manner. The Company strengthens investor protection awareness through various communication methods, enhancing the protection of investor interests. The Company actively utilizes the investor interaction platform set up on the exchange website to promptly respond to inquiries and demands raised by investors.

We actively promoted and revised the working system for independent directors, continuously improving the working mechanism of independent directors to ensure the effective assertion and protection of the rights and interests of minority shareholders. We maintain a stable and appropriate profit distribution policy, properly implement a three-year shareholder return plan, and strictly fulfill our commitments to the capital market.

2023



**Case: Successfully convened the first extraordinary general meeting of shareholders of 2023, A-share class general meeting of shareholders, and H-share class general meeting of shareholders.**

On November 30, the Company held the first extraordinary general meeting of shareholders of 2023, the first A-share class general meeting of shareholders, and the first H-share class general meeting of shareholders in Beijing. This extraordinary meeting reviewed and approved a total of five proposals, including the revision of the Company's Articles of Association and the renewal of the related transaction proposal for the "Purchase (Supply) of Fuel, Equipment, and Services Framework Agreement" with Huadian Group. The A-share and H-share class general meetings of shareholders approved the relevant proposals for revising the Company's Articles of Association.





# Investor Relation Management

Huadian Power International, in accordance with the requirements of the Company Law of the People's Republic of China, the Securities Law of the People's Republic of China, Work Guidelines for the Investor Relations Management of Listed Companies, and the Code of Corporate Governance of Listed Companies, has established the "Investor Relations Management Measures." These measures aim to enhance the Company's governance structure, standardize the management of investor relations, and promote the healthy development of the securities market.

The Company designates the Board Secretary as the person in charge of investor relations management, with the Securities and Legal Affairs Department handling the day-to-day management of investor relations. The Company establishes a communication mechanism for significant events with investors through the official website, the website of the Shanghai Stock Exchange and the SSE e-interactive platform, new media platforms, telephone, fax, email, etc., utilizing general meetings of shareholders, investor briefings, roadshows, investor research, and securities analysts research.

2023



# Transparent Information Disclosure

The Company strictly discloses relevant information in a truthful, accurate, complete, timely, and fair manner in accordance with the relevant laws, regulations, and the Company's information disclosure management system. The Company diligently studies the new version of the Listing Rules and the Self-Regulatory Guidelines for Listed Companies issued by the Shanghai Stock Exchange, promptly adapting to the new disclosure standards.



We strictly adhere to the bottom line of laws and regulations, timely revise the Company's Articles of Association, "Information Disclosure Management System," "Related Transaction Management System," and other related systems to further standardize the work of information disclosure from a systemic perspective. We actively fulfill the information disclosure obligations of listed companies and formulate an information disclosure work plan.



The Company has received **the highest A-level evaluation result for information disclosure work** among Shanghai-listed companies for nine consecutive years.



The Company was selected for the **"2022 Annual Report Performance Briefing Best Practices"** by the China Association of Listed Companies in 2023.

# ESG Management

While practicing corporate social responsibility, and strengthening the management of environmental, social, and governance (ESG) issues, the Group has gradually developed a set of promotion mechanisms for social responsibility management with clear responsibilities and linkage at all levels, forming a hierarchical management system with the Board, the Strategic Committee, senior management, leading departments, followed by departments and subsidiaries as the structure, so as to give full play to the management functions of corporate social responsibility at all levels and further improve the systematization and specialization level of ESG management.

## Management Architecture and Responsibilities

In terms of the ESG management system, the Board supervises and manages the Group's ESG-related issues through its Strategic Committee, assumes the overall responsibility for the Group's ESG strategy and reporting, and has the overall responsibility for evaluating, prioritizing and managing material ESG-related issues (including risks to the Group's business). The Strategy Committee of the Company is responsible for the Group's ESG strategic planning, policy formulation and target setting, and reports and reviews the progress to the Board in a timely manner. The senior management of the Company is responsible for following up the implementation progress of the Group's ESG strategic plan, policies and targets, reviewing the material ESG issues of the Group at the same time, and reporting to the Strategy Committee in a timely manner to actively promote the deep integration of ESG and corporate operation. In 2023, the Company won "The 1st CRHC Cup · ESG Golden Bull Award Top 100" award, and was honored with the "Bet Practice Case" award by the China Association of Public Companies.

In the future, the Group will continue to unswervingly fulfill its corporate social responsibility and strengthen the management of environmental, social, and governance (ESG) issues, and simultaneously continue to review and improve the promotion mechanism of ESG management based on its own operation status as well as the relevant requirements of the SEHK and the Shanghai Stock Exchange for ESG management, strengthen the management responsibilities of the Board and the Strategy Committee of the Company on ESG-related matters, and further promote the implementation of the concept of responsibility.



On November 24, the 2023 Golden Bull Enterprise Sustainable Development Forum and the 1st CRHC Cup · ESG Golden Bull Award Ceremony, co-hosted by China Securities Journal, China Reform Holdings Corporation Ltd., and the People's Government of Nantong, Jiangsu, were held in Nantong, Jiangsu. Over the years, the Company has always adhered to the scientific outlook on development, highlighted value-based thinking idea, and taken company strategies as the guide to speed up structural adjustment, and made persistent efforts in seizing development opportunities, improving efficiency, reinforcing management and leading working teams. With its outstanding performance in ESG, the Company won the First CRHC Cup · ESG Golden Bull Award Top 100.

With outstanding performance in ESG, our company has been awarded the



**The Top 100 ESG Taurus Awards of the First China New Cup**



## Stakeholder Communication

The Group always seeks to establish mutual, transparent and regular communication and contact with stakeholders through diversified channels. The Group identifies the main stakeholder categories by taking into account both the “degree of influence by the enterprise” and the “degree of influence on the enterprise” and understands their expectations and demands for the Group’s sustainable development through multiple forms so that the Group can review and revise its work plan as appropriate and respond with practical actions. By virtue of the benign communication mechanism of “identification - communication - evaluation - response - report”, the Group’s responsible communication during the Reporting Period was as follows:

Stakeholders	Expectations and Demands	Ways of Communication	Communication Frequency	The Group Actions
 Government and Regulatory Authorities	<ul style="list-style-type: none"> <li>Compliance with laws and regulations</li> <li>Operational legality</li> <li>Paying taxes in accordance with the law</li> <li>Energy supply security</li> <li>Structural optimization</li> <li>Energy conservation &amp; emissions reduction</li> <li>Ecological protection</li> </ul>	<ul style="list-style-type: none"> <li>Policy formulation</li> <li>Work report</li> <li>Information submission</li> <li>High-level meetings</li> </ul>	<ul style="list-style-type: none"> <li>Regularly</li> <li>Irregularly</li> </ul>	<ul style="list-style-type: none"> <li>Strictly adhering to national laws and regulations</li> <li>Timely dissemination of laws and regulations</li> <li>Actively cooperating with regulatory authorities</li> <li>Ensuring stable and reliable power and heat supply</li> <li>Actively responding to national strategies and enhancing ecological and environmental self-discipline</li> </ul>
 Shareholders	<ul style="list-style-type: none"> <li>Sales revenue</li> <li>Company profit</li> <li>Corporate governance</li> <li>Regular communication</li> </ul>	<ul style="list-style-type: none"> <li>Shareholder meetings</li> <li>Company announcements</li> <li>Periodic reports</li> <li>Roadshows</li> </ul>	<ul style="list-style-type: none"> <li>Year</li> <li>Quarterly</li> <li>Irregular</li> </ul>	<ul style="list-style-type: none"> <li>Enhancing economic efficiency</li> <li>Improving quality and efficiency, enhancing benefits</li> <li>Continuously improving risk management and internal control systems;</li> <li>Strengthening information disclosure, enhancing information transparency</li> <li>Conducting regular exchanges, organizing communication activities</li> </ul>
 Employees	<ul style="list-style-type: none"> <li>Employee rights and interests</li> <li>Occupational health</li> <li>Education and training</li> <li>Diverse life</li> </ul>	<ul style="list-style-type: none"> <li>Work meetings</li> <li>Employee communication</li> <li>Labor contracts</li> <li>Employee activities</li> </ul>	<ul style="list-style-type: none"> <li>Regular</li> <li>Irregular</li> </ul>	<ul style="list-style-type: none"> <li>Improving the human resources management system, ensuring employee rights and interests</li> <li>Focusing on intrinsic safety work, implementing occupational health and safety</li> <li>Enhancing talent development mechanisms, elevating employee knowledge and technical levels</li> </ul>
 Customers	<ul style="list-style-type: none"> <li>Stable supply</li> <li>Service guarantee</li> <li>Quality control</li> </ul>	<ul style="list-style-type: none"> <li>Contract agreements</li> <li>Customer service</li> <li>Company's website</li> </ul>	<ul style="list-style-type: none"> <li>Annually</li> <li>Quarterly</li> <li>Irregularly</li> </ul>	<ul style="list-style-type: none"> <li>Improving quality and efficiency, ensuring stable and safe power and heat supply</li> <li>Providing comprehensive electricity and heating customer services</li> <li>Enhancing production management systems</li> <li>Promoting scientific and research innovation , improving production efficiency</li> </ul>
 Suppliers and Other Partners	<ul style="list-style-type: none"> <li>Fairness and impartiality</li> <li>Win win cooperation</li> </ul>	<ul style="list-style-type: none"> <li>Contract Agreement</li> <li>Product Services</li> </ul>	<ul style="list-style-type: none"> <li>Annually</li> <li>Irregularly</li> </ul>	<ul style="list-style-type: none"> <li>Ensuring fair and transparent bidding and procurement processes</li> <li>Adhering to contracts and agreements</li> </ul>
 community	<ul style="list-style-type: none"> <li>Community construction</li> <li>Targeted poverty alleviation</li> <li>Environmental protection</li> </ul>	<ul style="list-style-type: none"> <li>Community visits</li> <li>Charitable contributions</li> <li>Environmental protection activities</li> </ul>	<ul style="list-style-type: none"> <li>Regular</li> <li>Irregular</li> </ul>	<ul style="list-style-type: none"> <li>Ensuring stable energy supply</li> <li>Jointly participating in harmonious community construction</li> <li>Actively conducting volunteer activities</li> <li>Implementing environmental protection measures</li> <li>Conducting power plant public open days, enhancing community understanding of power plant operations</li> </ul>

## Materiality Assessment

In order to further identify the materiality issues of concern to stakeholders in a targeted manner and demonstrate the Group's corresponding performance, the Group conducts materiality assessment in accordance with the principle of "materiality".

In preparation for the materiality assessment, the Group reviewed the material issues in previous years and further established a list of potential material issues within the Reporting Period based on the disclosure requirements set out in the Guide under Appendix C2 to the Rules Governing the Listing of Securities of Stock Exchange of Hong Kong Limited issued by the SEHK and simultaneously, with reference to the following guidelines:

- 01 The Sustainability Accounting Standards Board (SASB) released the Sustainability Accounting Standard for Electric Utilities and Power Generators
- 02 The Task Force on Climate-related Financial Disclosures (TCFD) released the Recommendations of the Task Force on Climate-related Financial Disclosures
- 03 MSCI (Morgan Stanley Capital International) ESG Ratings on the main issues concerning utilities
- 04 The Global Reporting Initiative (GRI) has released the GRI Sustainable Development Reporting Standards;
- 05 Issues of concern for peer enterprises

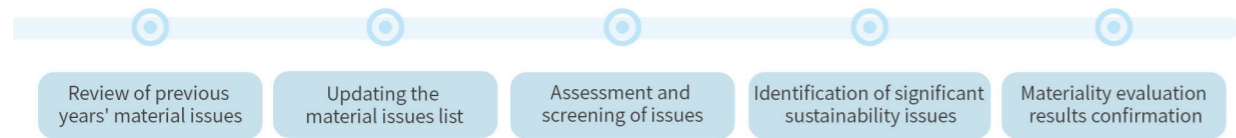
In the materiality assessment stage, the Group's Leading Departments for ESG-related work reviewed and updated the material sustainability issues during the Reporting Period by collating and assessing stakeholders' expectations, and fully considering the Group's business characteristics and development strategy, so as to obtain materiality analysis results. Not only the impact of the issues on the Group and stakeholders but also their economic, environmental and social impacts were taken into consideration during the analysis process.

In the end, 14 issues were identified as material issues (including 5 environmental issues, 6 social issues and 3 economic issues). These issues have been approved by the Board together with this Report and will be the focus of future ESG work.

### Importance assessment process



### Materiality Evaluation Process



### Material Issues Matrix



# 02 Streamline Administration for High-Quality Development

The Group adheres to standardize operations and legal corporate governance as a foundation, makes effort to achieve a shift from scale expansion to efficiency improvement, accelerating the high-quality development. At the same time, the Group actively responds to market changes, continues to run operations well, deepens reform and innovation, optimizes production indicators, works with suppliers to do a good job in supply chain management, and strives to build a comprehensive energy enterprise with strong competitiveness together.

- Standardize Company Operations
- Actively Explore the Market
- Promote Lean Management
- Continuous Innovation
- Sustainable Supply Chain



# Standardize Company Operations

As one of the centrally administered state-owned enterprises ("SOE") who plays important roles in implementing the strategy of law-based governance of the country, the Group strives to be exemplary, and strictly abides by and implements national laws and regulations, and makes efforts to become the practitioner, promoter and leader of socialist economy under the rule of law. To this end, the Group keeps abreast of relevant policies and requirements on governing enterprises according to law and simultaneously, continues to strengthen construction of its legal compliance system, strengthens the effectiveness and legitimacy of the system, and eliminates the risks related to system compliance.

## Ensuring Regulatory Compliance in Business Practices

The "Internal Control Compliance Risk Management Measures (For Trial Implementation)" was revised, and a specialized system for key business areas, "Huadian Power International Corporation Limited Power Infrastructure Project Management Measures," was established.



Improving the compliance system

The Company appointed a Chief Compliance Officer and established an Internal Control Compliance Risk Management Committee, with the Committee's chairman being the Company's principal responsible person, the vice-chairman being a member of the Company's leadership team, and the Committee members being heads of various departments. As of December 2023, three Internal Control Compliance Risk Management Committee meetings have been held: on March 6, 2023, the "2022 Annual Internal Control Compliance Risk Management Work Report" (management perspective); on April 20, 2023, the "Important Matters Communication and Coordination System"; and on December 15, 2023, the "Information Platform Promotion and Construction Work Plan of the Integrated Management of Internal Control and Compliance Risk for Huadian Power International Corporation Limited." Furthermore, an Enterprise Management and Legal Affairs Department (Audit Department) was established as the compliance management department, with one full-time compliance management personnel appointed.



Strengthening verification and review processes

The Company established a compliance risk identification, assessment, and early warning mechanism. The Company also established and regularly updated a compliance risk database, issuing risk warning letters when necessary. The Company established a mechanism for legal and regulatory review. The Chief Compliance Officer signed legal and compliance review opinions, formulated a compliance control checklist for business processes, and developed a list of compliance management responsibilities for key positions. Upon the occurrence of compliance risks, a compliance risk response report was promptly prepared. For regulatory violations, a reporting platform for violations was set up, an accountability mechanism was established, and corrective action plans and ledgers were developed.

Number of major or significant internal control defects: 0



Case: Huadian Zouxian Plant conducts a series of legal publicity activities

Huadian Zouxian Plant, in line with the reality of building "Rule of Law in Huadian Zouxian Plant," carried out multi-level and comprehensive legal publicity activities to create a strong atmosphere of legal publicity and education. Utilizing plant bulletin boards, the plant website, LED screens, display boards, and feature articles on WeChat official accounts to popularize the knowledge of the Constitution, inviting legal professionals to educate employees about the Constitution, organizing employee commitment signing, distributing calendars for the promotion of the Constitution, thereby enhancing the legal awareness of the officials and employees through their participation in these activities.



## Enhancing Integrity Construction

The Group comprehensively deepens the construction of "Integrity in Huadian" by taking the creation of "Triple Clean" enterprises as a leverage, vigorously conducting the "I Lead Integrity in Huadian" anti-corruption and integrity promotion month, actively promoting integrity concepts and models, and integrating the "Clean Harmony and Ten Integrity" culture into the headquarters, departments, offices, positions, families, and life, constructing the "Six Integrity Units" with listed company characteristics. All party members, especially leading officials at all levels, should regard "abusing power for personal gains, corruption, and bribery" as deeply dishonorable, strictly discipline themselves, take their responsibilities seriously, manage their jurisdictions strictly, focus on family education and household virtues, and create a culture that venerates integrity and rejects corruption.

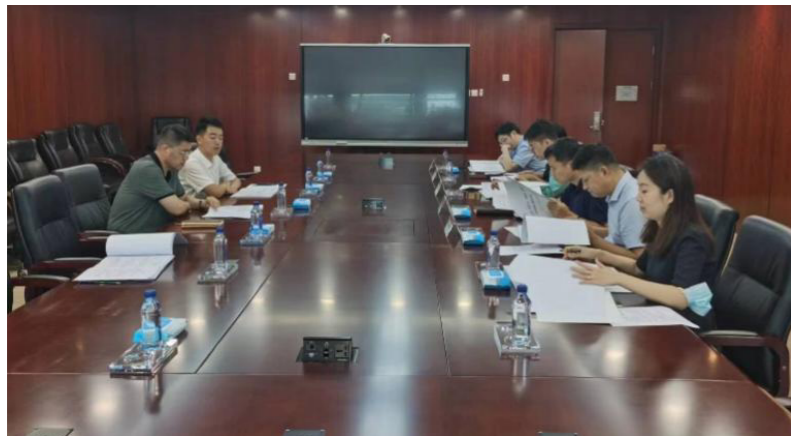
To deepen the investigation of integrity risks, all departments have thoroughly reviewed the risks associated with the exercise of power and the weak links in daily supervision. They have created 42 risk monitoring charts for the operation of their responsibilities. In response to 96 potential integrity risks identified, 102 preventive and control measures have been formulated. The "Company's Integrity Risk Prevention and Control Manual" has been compiled and published, establishing the "version 2.0" of the integrity risk prevention and control system.

The Group strictly abides by applicable laws and regulations on preventing bribery, extortion, fraud, and money laundering, including but not limited to the Criminal Law of the People's Republic of China, the Regulations for Punishment of Corruption of the People's Republic of China and relevant regulations of the SASAC. Meanwhile, in order to further improve Party conduct, promote integrity, and fight corruption, the Group has formulated and constantly improved a number of internal policies, including the Guidelines for the Integrity Conversation Process, the Measures for the Implementation of the Responsibility System for Improving Party Conduct and Promoting Integrity, the Working Rules of the Commission for Discipline Inspection Commission (for Trial Implementation), the List of Responsibilities for Improving Party Conduct, Promoting Integrity and Fighting Corruption in Functional Departments and Offices, etc.



**Case: The "6+15" series of activities sparks a new wave of anti-corruption and integrity promotion**

On May 5, 2023, Huadian Power International organized a mobilization meeting for the "I Lead Integrity in Huadian" anti-corruption and integrity promotion month. The meeting thoroughly disseminated the listed company's "6 aspects and 15 series of activities" plan, systematically deploying the anti-corruption and integrity promotion education month. The Company meticulously planned "one leadership team seminar, one 'Party History and Integrity Story' lecture, one all-staff learning seminar, and one 'I Lead Integrity in Huadian' theme party day" as part of the "Four Ones" characteristic activities, focusing on strengthening the ideological tempering and integrity adherence of party members and officials.



**Case: The 2023 Work Conference for Improving Party Conduct, Promoting Integrity, and Fighting Corruption**

In January 2023, Huadian Power International held the 2023 Work Conference for Improving Party Conduct, Promoting Integrity, and Fighting Corruption. The conference conveyed and thoroughly implemented the spirit of the 20th National Congress of the Communist Party of China and the Second Plenary Session of the 20th Central Commission for Discipline Inspection, implemented the Group's arrangements made at the 2023 Work Conference for Improving Party Conduct, Promoting Integrity, and Fighting Corruption, comprehensively summarized the effort made to improve Party conduct, promote integrity, and fight corruption in 2022, and laid out an overall plan for thoroughly applying the spirit of the 20th National Congress and the Second Plenary Session of the 20th Central Commission for Discipline Inspection. During the conference, the Secretary of the Party Committee and Chairman of Huadian Power International signed the "2023 Responsibility Agreement for Improving Party Conduct, Promoting Integrity" with representatives of various Party branches (functional departments), and held collective integrity discussions with all officials and employees.



**Case: The "Know Integrity, Maintain Integrity, United Towards Integrity, Family Supports Integrity" series of activities**

Continuously and thoroughly implementing the Group's various work deployments, Huadian Power International took the anti-corruption promotion month as an opportunity to continuously consolidate the online and offline promotion. Huadian Power International vigorously conducted the "Know Integrity, Maintain Integrity, United Towards Integrity, Family Supports Integrity" series of activities, meticulously planning promotional activities, reinforce the defense line of family combating corruption and upholding integrity, comprehensively promoting the "I Lead Integrity in Huadian" concept into the minds and hearts of officials and employees, sparking strong resonance among them.



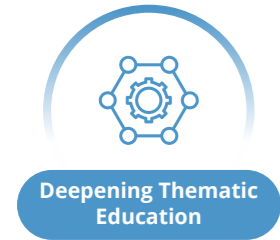
**Case: Hangzhou Huadian Banshan Power Generation Company Limited strengthens the integrity employment management of young cadres**

Huadian Power International Corporation Limited enhanced the education, management, and supervision of young cadres and young employees, formulated and implemented "Specific Measures for Strengthening the Education, Management, and Supervision of Young Cadres (Young Employees).", organized the signing of mentorship agreements, established a "Youth Discipline and Law Propagation Team," organized quizzes on discipline and law knowledge, visited various integrity education bases, and conducted specialized party classes on discipline and law at various party branches. Launch the "Companion · Lotus" integrity culture brand and the "1235" integrity brand system, distributing integrity culture brochures. Thoroughly carry out the "Clean Project, Integrity Conduct" special campaign, establish and improve the integrity risk control system in the new energy field, hold discussion meetings with youth employees working on the frontlines of projects, sign integrity co-construction responsibility agreements, integrity commitment letters, distribute integrity notification cards, etc., creating a multi-dimensional, three-dimensional integrity atmosphere.



## Strengthening the Leading Role of Party Building

According to the Company Law of the People's Republic of China, within the Company, in accordance with the provisions of the Constitution of the Communist Party of China, establish the organization of the Communist Party of China to play a leading role, setting direction, managing the overall situation, and ensuring implementation. The Company is equipped with a sufficient number of Party workers, ensures the funding for the Party organization's work, and provides needed support for the activities of the Party organization.



Strictly implement the overall requirements of "learning ideology, strengthening Party spirit, focusing on practice, and building new achievements," earnestly carry out thematic education, organize themed reading classes, and conduct special discussions and lectures on topics such as "deepening the study and application of the Party's innovative theories." Organize Party members from the headquarters to study at the Red Flag Canal revolutionary education base in Henan, pass on the tradition of revolution and drawing progressive strength.



Members of the Party Committee conducted in-depth research at several enterprises both within and outside the system in Sichuan, Hubei, and other locations, resulting in 9 research reports. They engaged in deep exchanges of research experiences and shared research findings, adopting a spirit of reform and innovation to propose new concepts and approaches for problem-solving. In total, 66 outcomes were transformed into tangible results.



The Company has implemented the "Four Strengths, Four Promotes" Party Building Project, actively establishing the "Four Types" Party organizations; it has strengthened organizational construction, successfully completing the renewal of the "Two Committees". Positions of Party Member Pioneers have been established, Party Member Responsibility Zones delineated, and Party Member Commando and Service Teams formed. The Company educates and guides Party members to reveal their identities, fulfill their promises, take the lead, and make contributions, thereby supporting the Company's high-quality development through practical actions. The leadership of the Party over mass organization work has been strengthened, with the roles of the trade union and the Communist Youth League fully utilized. By working tirelessly to oppose formalism, bureaucratism, hedonism, and extravagance and promoting a new code of conduct, the Company guides its cadres and employees to converge on the cultural consensus of "Innovative Progress, Brave Pioneering".

**Case: Special Party Lecture: Thematic Education — Studying and implementing Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, and Commendation Meeting for "Two Excellences and One Priority"**

On July 3, the Company held the Special Party Lecture: Thematic Education — Studying and implementing Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, and Commendation Meeting for "Two Excellences and One Priority," thoroughly implemented the Group's arrangements for the thematic education, celebrated the 102nd anniversary of the founding of the Communist Party of China, and commended outstanding Communist Party members, outstanding Party workers, and advanced primary level Party organizations.



## Actively Explore the Market

Faced with risks from the power market, the coal market and carbon emissions, the Group has always taken the guiding ideology of "insisting on making the main business stronger and better, insisting on differentiated development, and insisting on improving relative competitiveness", and actively adopted the following strategies and measures to strive for a leading position in the industry.



China has accelerated the construction of a new type of power system with renewable energy as the mainstay to pursue the strategic goals of "carbon peak and carbon neutrality". Based on China's actual national conditions such as energy resource endowment and economic and social development, the Group will give full play to the important role of coal-fired power generating units as basic guarantee and system regulation, and actively integrate into and serve the construction of new power market.



The Group will closely follow national policies, strengthen coal market analysis, actively promote the signing of medium- and long-term contracts and strengthen contract performance and fulfillment, continuously optimize procurement and inventory strategies, and ensure the safe and stable supply of thermal coal.



The state has successively issued a series of policies and regulations on environmental protection governance, which put forward higher requirements for enterprises' environmental information disclosure, ecological environment monitoring, energy conservation and emission reduction. The Group will firmly grasp the general requirements of achieving synergies in pollution reduction and carbon reduction, earnestly fulfill the main responsibility of environmental protection, comprehensively ensure pollution prevention and control and emission up to standards, strengthen the supervision and benchmarking analysis of major energy consumption indicators, and promote the continuous improvement of energy consumption indicators.

Faced with risks from the power market, the coal market and carbon emissions, the Group has always taken the guiding ideology of "insisting on making the main business stronger and better, insisting on differentiated development, and insisting on improving relative competitiveness", and actively adopted the following strategies and measures to strive for a leading position in the industry.



## Promote Lean Management

With the goal of building a comprehensive energy enterprise with strong competitiveness, the Group continues to optimize production indicators and promote high-quality development of the enterprise through standardized and lean management. Focusing on the development concept of "innovation, coordination, greenness, openness, and sharing", the Group has implemented measures of improving quality and efficiency to enhance its ability to create value by improving production management mode and implementing technological transformation.

Strengthen the construction of operational mechanisms, establish a monthly business budget working group, further perfecting the budget control mechanism. Strengthen research on energy industry policies and market situation assessments, supervise regions to implement electricity pricing policies, and carry out market transactions with coordinated volume and price considerations.



## Continuous Innovation

Innovation is the inexhaustible driving force for enterprises to enhance competitiveness and achieve sustainable development. The Group has always adhered to the corporate spirit of "meticulousness, efficiency and excellence". While pursuing to achieve high benefits through high efficiency, the Group actively creates active atmosphere of innovation, and encourages employees to make innovative attempts.

The Group vigorously promotes technological innovation, makes considerable investment in scientific research, actively carries out various scientific research and innovation activities, and constantly makes technological progress. Meanwhile, the Group insists on the combination of technological innovation and intellectual property protection. When issuing plans for science and technology projects, the Group requires that the intellectual property generated from the Company's technological project research is owned by the project undertaking units within the Company. The maintenance expenses of such intellectual property shall be included in the general management fee. During the Reporting Period, the Group was not involved in any disputes or legal proceedings related to intellectual property rights.

## Sustainable Supply Chain

The Group places a high emphasis on managing potential risks related to the environment and society within the supply chain, while also establishing a rigorous procurement policy system and supplier selection process to build a sustainable, high-quality supply chain.

The Group's procurement mainly includes fuel, infrastructure equipment, related materials, and services. The Group strictly complies with laws and regulations such as the Bidding Law of the People's Republic of China and has formulated internal policies such as "Huadian Power International Corporation Limited Materials Procurement Management Measures" and "Huadian Power International Corporation Limited Infrastructure Project Procurement Management Measures." At the same time, the Group is committed to ensuring the legality and compliance of procurement management work, guaranteeing that the bidding process is open, fair, just, and honest.



**Suppliers Management**

In order to systematically control and strengthen supplier management, ensure the quality of bidding and procurement, and control the environmental and social risks of suppliers, the Group has established a unified supplier network in accordance with the principles of "unified management, dynamic assessment, scientific control, and supporting the superior and eliminating the inferior". The supplier network implements layer-by-layer checks on each step of supplier selection, supplier pre-qualification review, supplier dynamic quantitative evaluation, annual review, inspection and supervision. Suppliers are managed timely and effectively through the e-commerce platform.



**Supplier Evaluation**

The Group has established a supplier assessment indicator system to optimize the structure of supplier and has created a supplier blacklist to control procurement risks. Criteria for supplier assessment mainly include the suppliers' performance in quality, safety and service, whether they are certified by the ISO 14001 Environmental Management System, whether they have comprehensive policies and objectives regarding quality and environment, or whether they have had adverse social impacts on production, operation or construction, etc.

Number of major risks and impact events in the supply chain: 0





# 03 Stabilizing Production and Supply, Forestalling Safety Risks

The Group adheres to placing safe production as the number one priority for its operations, and implements the principle of "safety first, prevention crucial, comprehensive treatment". With a rigorous and efficient corporate attitude, the Group ensures the carrying out of safe production work, continuously improves its safety management and supervisory system, improves safety risk management capabilities, implements occupational health and safety management measures, ensures the safety of personnel and assets, and provides communities with stable and reliable energy in a sustainable manner.

- Consolidating Workplace Safety
- Ensuring Stable Supply
- Ensuring Occupational Health



# Consolidating Workplace Safety

The Group has always regarded workplace safety as a top priority, strictly complied with the Work Safety Law of the PRC and other national and industrial laws, regulations and standards related to workplace safety, established workplace safety supervision, protection and support systems. The Company, its subsidiaries, and grassroots units have established workplace safety committees and workplace safety supervision organizations. Grassroots units have established a three-level (factory, workshop, team) safety supervision network to ensure the implementation of safety responsibilities at every level. The Company has improved its safety management system, formulated systems regarding to workplace safety responsibilities, safety risk level control and hidden danger inspection, major hazard source safety management, occupational health management, safety management of contracted projects, safety training management, anti-violation management, work permit and operation ticket management, hot work management, safety rewards and penalties, safety information management, traffic safety management, flood control management, etc., and continuously strengthened the execution and implementation of these safety management systems.

Both the headquarters and subsidiaries of the Group have established workplace safety committees, established a three-level safety supervision network of "plant - workshop - team," ensuring that safety responsibilities are fulfilled at every level.



## Safety Risk Management & Control

Actively carry out the construction of workplace safety standardization, continuously improving the level of workplace safety management. The Company deepens the grading control of safety risks, intensifying safety risk identification and dynamic grading control. In conjunction with seasonal safety inspections, flood prevention, safety inspections before festivals and major events, and other safety activities, the Company rigorously carry out workplace safety potential hazards investigation and anti-violation work. The Company focuses on the formulation, improvement, and implementation of safety technical measures, especially in areas prone to fires and explosions, major hazard sources, high-altitude operations, and the safety control and management of outsourced and subcontracted projects. The Company continues to improve the monitoring and alarming of flammable and explosive gas concentrations, ensures ventilation facilities are in place, keeps safety risks under manageable and controlled conditions, and solidifies the foundation of safe production. The Company strengthens the management of safety facility configurations and the safety of operational environments at production sites, ensuring that safety facilities at production sites are fully equipped and reliable, and that the operational environments at production sites are safe.

## Enhancing Safety Awareness

The Group has actively carried out safety training, including: comprehensively conduct training and education on relevant laws and regulations, safety rules and systems, and safety production situations; Conscientiously carry out training on typical case studies of safety incidents; Arrange for safe production management personnel and front-line personnel at basic-level to regularly participate in safety skills training examinations in accordance with regulations, and only those that have obtained certification can engage in production work at production sites; Encourage basic-level units to conscientiously carry out practical safety experience training to enhance employees' safety awareness.

## Strengthening Emergency Management

The Company established emergency management regulations for production incidents, clarifying the responsibilities of all parties in production safety emergencies. It formed an emergency rescue team, established and improved emergency response plans, and strengthened drills to continuously improve the emergency response capabilities of relevant personnel.



### Case: Huadian Zouxian Plant effectively conducts the "Workplace Safety Month" campaign

June 2023 marked the 22nd National "Workplace Safety Month." Huadian Zouxian Plant, closely centered around the theme "Everyone Talks Safety, Everyone Knows Emergency Response," planned ahead, meticulously designed, and scientifically organized nine aspects and 19 key tasks. Through activities that are practical and relatable, it continuously enhanced the safety literacy of employees, creating a favorable safety environment for the construction of an intrinsically safe enterprise.



### Case: Huadian Xiasha Company launches Safety Initiative

To push the implementation of safety responsibilities, effectively improve the quality of risk and hidden danger investigation and rectification, further implement prevention measures, enhance the safety awareness and skills of all staff, and solidify the Company's foundation for safe production, Huadian Xiasha Company issued a safety initiative to all employees.



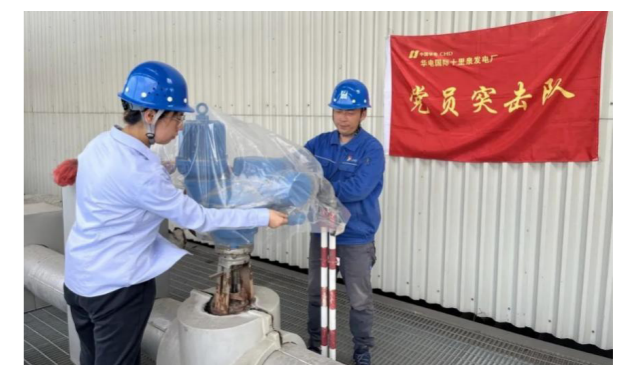
### Case: Tianjin Company achieves 5G+AI empowered intelligent control of safety risks

Under the backdrop of the Ministry of Industry and Information Technology's plan for the integration of industrialization and informatization development and the Group's strategy to shape new advantages in technological innovation, Tianjin Company, guided by the construction of intrinsically safe enterprises, utilized digital integration technologies such as 5G, industrial Internet, big data, and AI intelligent video analysis. Following the goals of "remote monitoring, intelligent tech prevention, and emergency command," Tianjin Company built a platform for intelligent control of safety risks, realizing 5G+AI empowered intelligent control of safety risks. The project went through stages of solution design, software collection, hardware installation, debugging optimization, and system launch, advancing the information development in the "5G+ Smart Safety" field, enhancing Huadian's brand impact, and generating more new capabilities, applications, scenarios, and forms of business. It supports the digital transformation of the power industry, improves urban safety indices, and strengthens the "lifeline" of public safety. It achieved a new model of safety management with source control and moving the checkpoints forward; realized efficient and intelligent safety management processes; achieved the first batch of demonstration applications of 5G+ intelligent technology in safety management scenarios at power plants. It won the first prize in the public safety track of the Ministry of Industry and Information Technology's 5th Blooming Cup 5G Application Contest, the second prize in the national finals, the Five-Star Award for Power Equipment Management Technology Innovation Achievements of the China Electricity Technology Market Association in 2022, the second prize in the national finals of the 2nd Edge Computing Developer Competition by the China Academy of Information and Communications Technology, the second prize in the final of the first "State-Owned Enterprise Digital Scenario Innovation Professional Contest" by the State-owned Assets Supervision and Administration Commission of the State Council, and was selected as an excellent case of 5G application by the National Energy Administration in 2022.



### Case: Shiliquan Power Plant conducts flood control emergency plan drill

Since July 29, due to the impact of the typhoon, Zaozhuang City experienced localized heavy rainfall. Shiliquan Power Plant quickly responded, organizing all departments to fully enter a practical state of typhoon and flood prevention, comprehensively strengthening the flood prevention "dyke," ensuring that all workplace safety work is stable and orderly. At the beginning of the flood season, Shiliquan Power Plant conducted the 2023 annual flood control emergency plan drill, with three training subjects, namely, building embankments, emergency drainage, and casualty rescue, to enhance the emergency response capabilities of all departments and teams in flood prevention emergency assembly, emergency handling, unified scheduling, and coordinated action.





**Case: Shuozhou Thermal Power Branch actively implements the strategy of boosting safety with technology and strengthening safety with technology**

Shuozhou Thermal Power Branch has built an immersive emergency interactive training system supported by VR technology, realizing a safety training base that integrates real objects, real scenes, and practical operations. In November 2023, a "Violation Monitoring Platform" was established. By taking advantage of behavior recognition and remote supervision of the monitoring system, a violation monitoring system with no dead angle was set up, infrared imaging monitoring was installed along the entire coal transportation system, enriching the means of preventing coal fire. The Company actively employs a safety emergency management system, leveraging information technology management methods to achieve an integrated management of safety risk control, potential hazard investigation and remediation, safety education and training, external management, emergency management, routine safety operations, and personnel management, truly realizing safety advancement through technology.

## Ensuring Stable Supply

The Group has set up a leading group for ensuring energy supply, earnestly fulfilling its political and social responsibilities. Centering on the core goals of ensuring power and heat supply, the Group has overcome the difficulties of high coal prices in the market and high operating pressure on coal-fired power enterprises and has made every effort to ensure safe and reliable energy supply. Meanwhile, combined with the current financing environment, the Group has carefully sorted out the financial situation of all coal-fired power enterprises under its management, arranged various financial support in an orderly manner according to the financial demand, and ensured the capital demand for energy supply to the greatest extent.

In addition, the Group continues to improve the emergency response mechanism and strengthen emergency response training and drills to ensure stable supply while consolidating workplace safety. The Group conducts drills on contingency plans for major emergencies every year and conducts all drills on contingency plans and emergency plans every two years. For important nodes, such as winter and important events (such as the National Day), the Group will also carry out special inspections and work to ensure power and heat supply.



**Case: The world's first construction of a supercritical dual-extraction reheat back-pressure unit was fully completed.**

The Tianjin Huadian Nangang No. 3 Thermal Power Unit successfully passed the 96-hour full-load trial operation and officially commenced operation, marking the complete construction of the Company's phase one project featuring three world-first supercritical dual-extraction reheat back-pressure units. The Tianjin Huadian Nangang Thermal Power Project is located in the Tianjin Nangang Industrial Zone, a hub for the high-quality development of the petrochemical industry in Tianjin, aiming to be a world-class green chemical new materials base. As the basic supporting project and the sole source of heat for the park, the project provides the industrial steam needed for production to the chemical enterprises within the zone. Based on the heat demand of users, the phase one project includes the construction of three 1,172 metric tons/hour supercritical circulating fluidized bed boilers and three 170 megawatt dual-extraction reheat back-pressure units, along with the simultaneous construction of desulfurization and denitrification facilities. It is designed to provide an annual heating capacity of 41.32 million gigajoules and generate 3.06 billion kilowatt-hours of electricity, with the maximum steam supply capacity reaching 2,000 tons per hour.



**Case: Xiangyang Company ensures the successful completion of the energy supply task during the peak summer period**

To ensure thousands of households enjoy a "cool summer," Xiangyang Company took a politically minded stance, with high standards and strict requirements, coordinating the implementation of various effective measures. It applied an "addition, subtraction, multiplication, division" combination strategy to ensure the successful completion of the energy supply task during the peak summer period. By implementing responsibilities for "addition," reducing risks and hidden dangers for "subtraction," enhancing fuel security for "multiplication," and managing emergency disaster prevention for "division," it effectively played a crucial role as the "mainstay" and "ballast" in ensuring the safe and stable supply of electricity. All grassroots enterprises went all out, battling high temperatures, enduring the scorching heat, and ensuring supply to fight the energy supply campaign against the peak.



**Case: Shuozhou Thermal Power Branch, with a sense of responsibility towards the Top Priorities of the Country, closely focuses on ensuring energy supply**



In-depth study and implementation of General Secretary Xi Jinping's important directives on ensuring energy supply, comprehensively strengthening the precision management of operation adjustments and lean management of unit maintenance, achieving dual-unit parallel operation for the first time for 127 days, and the long-cycle operation of Unit No. 1 reaching 207 days for the first time. High-quality completion of the energy supply tasks during crucial periods such as the 20th National Congress of the Communist Party, the Two Sessions (the National People's Congress and the Chinese Political Consultative Conference), and the Winter Olympics, successfully completing a historically long heating season of 210 days, which was featured in a special news coverage by China Central Television, fully demonstrating Huadian Power International's responsibility.

## Ensuring Occupational Health

The Group strictly abides by national laws and regulations that have a significant impact on the Group relating to providing a safe working environment and protecting employees from occupational hazards and relevant industrial standards and regulations, including but not limited to Law of the People's Republic of China on the Prevention and Control of Occupational Diseases and the Provisions on the Supervision and Administration of Occupational Health at Work Sites, and has formulated and implemented the corporate standard of occupational health, supervision management system of occupational health and other measures. In order to fully implement the aforementioned laws and regulations, to strengthen the management of the prevention and treatment of occupational diseases, and effectively protect the health and safety of workers during operations, the subsidiaries of the Group have promptly announced and implemented relevant laws, regulations and policies, improved the occupational health management system, and regularly reviewed and updated the system and management measures, thereby implementing the goal of preventing and controlling occupational hazards.

# 04 Strict Management, Protecting Lucid Waters and Lush Mountains

In the goal related to ecology and energy, lucid waters and lush mountains are invaluable assets. The Group has always adhered to the corporate mission of “providing reliable, clean and economical energy”, actively responded to the national environmental protection policies, comprehensively implemented the national dual control of energy consumption and “3060” dual carbon goals, strengthened its ability to respond to climate change risks, continued to promote energy conservation and emission reduction, continued to increase resource investment, and achieved the co-development of high-quality development and ecological and environmental protection.

- Strengthening Environmental Management
- Combating Climate Change
- Strict Control of Operational Emissions
- Focusing on Ecological Protection



# Strengthening Environmental Management

Aiming at effectively conserving resources and improving their utilization efficiency, the Group focuses on scientific management, meticulous organization, and careful construction for project development, and on energy-saving and water-saving technological retrofitting of existing coal-fired power generation units, continuously improving the management of energy consumption indicators.

## Conservation of Resource Use

As a power generation enterprise, the Group strictly abides by laws and industry standards related to resource use, such as the Cleaner Production Promotion Law of the People's Republic of China and the Environmental Compliance Guidelines for Coal-fired Power Enterprises, while steadfastly implementing the energy-saving priority policy outlined in the 14th Five-Year Plan and strengthening energy-saving management, continuously promoting the energy structure towards a green, low-carbon, and efficient transformation.

In terms of resource and raw material usage, the primary resources and raw materials consumed by our Group include coal, natural gas, diesel, and water resources. Aiming at effectively conserving resources and improving their utilization efficiency, the Group focuses on scientific management, meticulous organization, and careful construction for project development, and on energy-saving and water-saving technological retrofitting of existing coal-fired power generation units, continuously perfecting the management of energy consumption indicators. By collecting, organizing, and analyzing energy consumption data, targeted energy and water-saving plans are implemented, gradually forming a mature energy consumption management system. Additionally, the Group continues to advance research on intelligent fuel management, improve the fuel management information system, track fuel data throughout the process, and achieve precise management of fuel.



## Clean Production

The Company deeply promotes high-quality development, vigorously advancing clean and low-carbon transformation. The Company consistently prioritizes clean and low-carbon initiatives during project development, striving to advance project-related work with high quality, and making greater efforts to contribute to ensuring a safe and stable power supply.

### Expanding Pumped Storage Projects

During the project development process, the Company intensifies the optimization of design schemes and the implementation of construction conditions. It particularly focuses on enhancing the depth of work in geological exploration, design, and relocation for pumped storage projects. By thoroughly preparing the foundational aspects of projects, the Company aims to advance the construction of pumped storage projects to meet the requirements of constructing a new type of power system. Pumped storage project resources have formed a certain scale, and layouts for pumped storage projects have been achieved in regions without existing assets, such as Jiangxi, Jilin, Shaanxi, Gansu, and Guangxi, with the preliminary work of the projects being steadily carried out based on the inclusion of pumped storage projects into plans.

# Combating Climate Change

Based on a thorough analysis of the domestic context and relevant policies, an objective evaluation of its own fundamentals, and a comprehensive analysis of the situations it faces, the Group actively responds to the goals outlined in the 14th Five-Year Plan regarding "energy security, energy transformation, energy system efficiency, innovation and development, and service levels." A series of measures to support dual-carbon development and address climate change have been proposed.

As climate change brings about an increasing number of adverse effects, such as the rising frequency of extreme weather events and the intensification of global warming. In response, power generation companies need to strengthen their ability to manage risks, in order to cope with the possibility of more frequent occurrences of high temperatures and severe stormy weather, ensuring the safety and stability of production activities. In the face of potential extreme weather conditions, the Group's subsidiaries have developed detailed work plans, emergency response plans, and drills. These include preparations for peak summer demand, flood prevention and power supply protection, and mechanisms and drills for typhoon prevention.

The total carbon emissions of the company are 178.9141 million tons, with a unit emission intensity of 0.8kg/kWh



### Case: Xiangyang Company shares the case of coal-fired power unit energy-saving and carbon reduction at the COP28 side event

In December 2023, Xiangyang Company, representing China's major emission enterprises, was invited to share cases of energy-saving and carbon reduction for coal-fired power units at the COP28 side event. Xiangyang Company has systematically introduced to the international community its series of innovative initiatives and actions in addressing climate change and promoting low-carbon development from four aspects: actively participating in the construction of China's carbon market, exploring innovative paths for reducing emissions in traditional coal power, increasing the proportion of clean energy installations, and actively practicing ecological carbon sink actions. These efforts vividly showcase the company's outstanding achievements in green and low-carbon development.

- Exploring the Development of New Energy Businesses**

The Company is committed to cultivating new businesses, forms of business, steadily advancing the development of integrated energy and geothermal projects, and demonstrating and promoting the development of hydrogen energy projects.
- Advancing the Development of Gas Turbine Projects**

The Company, centering on the role of coal power in providing regulation or security within the new type of power system and in line with policy directions such as "dual operation," selectively advances the development of coal power projects. Furthermore, in regions with a guaranteed gas supply and strong price affordability, it scientifically advances the development of gas turbine projects according to the needs of the power system.
- Developing and Constructing Energy Projects**

The commissioning and power generation of clean and efficient coal power units such as Hunan Pingjiang No. 2, Guangdong Shantou, Shandong Longkou Phase IV Unit 1, Tianjin Nangang No. 3, and Shandong's first set of 9F heavy-duty gas turbine project - Qingdao Gas Turbine Unit 1 successfully commenced operation.

# Strict Control of Operational Emissions

The Group promptly publicized and resolutely implemented relevant national policies and requirements, perfected internal environmental protection management systems and measures, and actively adopted environmental protection technological transformations and related environmental protection measures to ensure the normal operation of environmental protection equipment and supervision of environmental indicators, strictly controlling the standard discharge of pollutants.

During the operation process, the emissions generated by the Group mainly include air pollutants such as sulfur dioxide, nitrogen oxides, soot, etc., carbon dioxides, wastewater and solid waste.

The Group strictly complies with relevant laws and regulations that have a significant impact on the Group relating to air and GHG emissions, discharges into water and land, and generation and disposal of hazardous and non-hazardous waste, including but not limited to the Environmental Protection Law of the People's Republic of China, the Water Pollution Prevention and Control Law of the People's Republic of China, the Water and Soil Conservation Law of the People's Republic of China, the Law of the People's Republic of China on the Prevention and Control of Environment Pollution Caused by Solid Wastes, the Environmental Protection Tax Law of the People's Republic of China, the Environment Compliance Guidance for Coal-fired Thermal Power Enterprise, the Emission Standard of Air Pollutants for Thermal Power Plants and the Notice of National Development and Reform Commission on GHG Emissions Reporting by the Major Enterprise and Public Institutions. In addition, the Group strictly implements and complies with the Supervision and Management Measures on Ecological Protection of China Huadian Corporation Limited, the Administrative Measures of "Three Simultaneities" for Environmental Protection and Water and Soil Conservation at Construction Projects of China Huadian Corporation Limited, the Measures for Managing Emission Permits of China Huadian Corporation Limited, etc.

During the Reporting Period, the Group has paid environmental protection related taxes in full, and there was no incident of non-compliance with environmental protection related laws and regulations. Based on the National Environmental Emergency Response Plan, the Group did not experience any sudden environmental incidents of general level or above during the reporting period.



## Waste Gas Management

To ensure compliance and standards for the discharge of air pollutants, the Group pays attention to and timely publicizes and implements national environmental protection policies and relevant regulations, improves environmental protection management and supervision systems, insists on putting basic management and daily supervision into practice. The Group included the overall environmental protection status, environmental protection investments, and areas needing improvement in the Group's annual summary and planning, while implementing emission monitoring and carrying out indicator analysis and summary work. Furthermore, the Group reduces pollutant emissions by technological transformation and strengthening the operation and maintenance management of environmental protection facilities. Since 2020, the Group has completed the ultra-low emission transformation of all coal-fired power generating units. Without further adopting relevant emission reduction measures, the maintenance of environmental protection facilities' removal effect has become one of the key environmental protection tasks of each company due to the continuous aging of environmental protection facilities.



## Wastewater Management

For wastewater generated during the operation process, the Group carries out work in accordance with relevant national and local regulations to ensure that the requirements for wastewater treatment and discharge are met. The Group's power generation projects follow the principle of "diversion of clean water and wastewater, diversion of rainwater and wastewater, and multiple use of water", and treat wastewater through an effective wastewater treatment system. The treated wastewater is partly used for greening and cleaning water in the plant area, and the rest is discharged as required. The Group will strengthen the management of wastewater discharge and strives to achieve zero wastewater discharge. The thermal power plants under the management of the Group have started to prepare for comprehensive treatment and renovation of wastewater since 2016 and have all met the environmental emission standards since 2020. Going forward, the Group will continuously strive to achieve the goal of near zero discharge of wastewater except once-through cooling water by the end of the 14th Five-Year Plan.

Discharge of wastewater:

**11.5638** million metric tons



## Waste Management

As for the generated wastes during operations, the Group has implemented practices pursuant to relevant national and local requirements and ensures the requirements of waste handling and disposal are met. The hazardous waste generated by the Group mainly includes spent catalysts and spent machine oil, while the general solid waste generated is mainly desulfurization gypsum, coal ash and slag. For the hazardous waste produced, the Group has established hazardous waste storage warehouse and entrusts them to qualified third parties for transportation and treatment, achieving a 100% treatment rate. As for general solid wastes, the Group proactively promoted a circular economy, in which desulfurized gypsum, coal ash and slag were reused in various ways or sold.

		2023
Waste engine oil produced per unit of electricity generated	g/kWh	0.0030
Total amount of waste engine oil disposed	kg	690,972.70
Fly ash produced per unit of electricity generated	g/kWh	80.81
Slag produced per unit of electricity generated	metric ton/kWh	0.00002
Desulfurization gypsum produced per unit of electricity generated	g/kWh	23.6294
Lead pollutants produced per unit of electricity generated	g/kWh	0.0274
Total amount of lead pollutants disposed	metric ton	0
Total amount of mercury pollutants produced	metric ton	0
Mercury pollutants produced per unit of electricity generated	g/kWh	0
Total amount of mercury pollutants disposed	metric ton	0



**Case: Xinxiang Company taps into potential to reduce the duration of exceeding emission standards during start-up and shutdown periods**

Based on existing production equipment, Xinxiang Company deeply explores and makes reasonable use of the characteristics of boilers and environmental protection facilities. By improving equipment reliability, optimizing the start-up and shutdown process, and increasing the inlet flue gas temperature, it reduces the duration of environmental protection exceedance emissions caused by the inability to deploy environmental protection facilities due to low flue gas temperature during start-up and shutdown periods. The Company effectively controls the duration of pollutant emissions exceeding standards during the start-up and shutdown periods of units through strengthening the process management quality during unit start-up, precise control of special node timing, quality control of real-time emission indicators, and enhancing the quality check of average emission data with the national platform and the superior company's SIS system. The duration of pollutant emissions exceeding standards during unit start-up has been significantly reduced from an average of 4 hours to a minimum of 1 hour.



**Case: Jiangdong Company advances digital management of hazardous waste**

Jiangdong Company consistently adheres to stringent control requirements, strengthening the identification, generation, internal transfer, temporary storage, and treatment of hazardous waste to mitigate environmental risks. In May 2023, the Company completed the installation of monitoring systems and electronic scales in the hazardous waste temporary storage area. The new requirements of "identification with a list, generation with management, transfer with approval, temporary storage with records, and treatment with a consignment note" were met. The electronic scales currently used by Jiangdong Company comply with HJ1276—2022: Technical Specification for Setting Identification Signs of Hazardous Waste, and can interface with the National Solid Waste Management Information System (Zhejiang Province), achieving one-click label printing, real-time ledger synchronization, and online consignment note processing. This ensures the entire process of hazardous waste management is legal and compliant, achieving self-regulated compliance in hazardous waste management.

## Focusing on Ecological Protection

The Group also strictly abides by the Water and Soil Conservation Law of the People's Republic of China and relevant policy requirements and is committed to implement soil and water conservation. For construction projects, the Group will carry out environmental impact assessment of construction projects, identify important environmental impact factors, formulate and implement various environmental protection measures, and also implement stringent management during construction, mining and project operation. For project construction, the Group implements the "three simultaneous" system of environmental protection and soil and water conservation, includes and implements the opinions, measures and requirement of environmental impact assessment reports and water protection plans, and requirements of national environmental protection and water protection management in the "three simultaneous" plan to ensure that the impact of project construction on the ecological environment is minimized.

In recent years, the Group has continued to carry out hydropower station proliferation and release of rare fish activities, releasing more than 200,000 fish each year to ensure the ecological flow of each hydropower station, and actively participates in afforestation, devoting the Group to biodiversity protection in various ways, and making efforts to build a harmonious and beautiful homeland for all kinds of species.



# 05

## Building An Excellent Team with Concerted efforts

Building an excellent and united team requires growing and moving forward together with employees, so as to achieve the Group's target of sustainable development. The Group adheres to the people-oriented principle, attaches great importance to the protection of employees' legitimate rights and interests and employee care, and strives to create a harmonious and inclusive working environment. Moreover, the Group implements the talent development strategy and continuously enhances the talent cultivation mechanism to develop a team equipped with knowledge, skills and innovation to stimulate rapid development.

- Safeguarding Rights and Interests of Employeeest
- Emphasizing on Talent Cultivation
- Colorful Employee Activities





# Safeguarding Rights and Interests of Employees


The Group strictly complies with relevant laws and regulations that have a significant impact on the Group relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination, other benefits and welfare, and prevention of child labor or forced labor, including but not limited to the Labor Law of the People's Republic of China, the Labor Contract Law of the People's Republic of China, the Trade Union Law of the People's Republic of China, the Civil Code of the People's Republic of China, and the Law of the People's Republic of China on the Protection of Minors. The Group has formulated and implemented a human resources management system in accordance with the above laws and regulations, covering the management of employee recruitment, labor contract, promotion mechanism, compensation and benefits, working hours, dismissal, etc. During the Reporting Period, the Group did not violate the above labor and employment-related laws and regulations.



**Adhering to Equal Employment**


The Group adheres to an open, fair and just talent competition and selection mechanism, and strictly reviews the information of candidates during the recruitment process, and resolutely objecting to hiring child labor under 16 years old. If child labor is found, the Group will immediately deal with it in accordance with relevant laws and regulations, investigate and take remedial measures to prevent the incident from happening again. At the employment stage, employees have legally entered into labor contracts with the Group, specifying matters such as employees' remuneration and benefits, position and grounds for termination of employment.

In addition, the Group advocates equal and diversified employment policies and does not discriminate against employees due to race, nationality, skin color, gender and other factors.




**Equal Remuneration and Benefits**

In terms of remuneration and other benefits, the Group follows the principle of fair distribution according to work and equal pay for equal work. Under the premise of efficiency and fairness, the Group implements systems such as salary points and annual salary system for leaders, and establishes an objective, fair, scientific and effective performance appraisal system for all employees. Based on the performance principle, the Group insists on giving priority to quality and efficiency and giving consideration to both efficiency and fairness, so that employees have the opportunity to obtain salary or position adjustment; In accordance with relevant national laws and regulations approved by the employees conference, the Group participates in social insurance such as pension, unemployment, medical care, work-related injury and maternity insurance, and pays social insurance premiums on time.



**Working Hours and Vacation**

The Group implements a 40-hour workweek, averaging no more than 8 hours per day, in compliance with international laws and regulations, providing employees with statutory holidays, leave, and family visitation leaves. For cases requiring extended working hours and overtime on rest days due to work demands, the implementation shall adhere to legal regulations and company policies to ensure the rights of employees regarding working hours and leave entitlements.



**Advocating Democratic Management**

The group regards the Workers' Congress as the primary vehicle and fundamental form of democratic management, deliberating on significant decisions related to the enterprise and major issues concerning the employees' immediate interests, such as proposals from workers and collective contracts. At the same time, the Group has established a system for the election of employee supervisors, ensuring employees have the right to make decisions and participate.



# Emphasizing on Talent Cultivation

The Group vigorously promotes the strategy of "developing a competitive enterprise of quality workforce" and proactively establishes the development strategy of talent cultivation and various plans, while mobilizing the enthusiasm, initiative and creativity of talents to provide strong talent support for the development of the Group. Each subsidiary of the Group has implemented the Group's talent strategy, adheres to people-oriented and lean management, and strives to provide wide-ranging and targeted training to employees of different positions by formulating tailored training plans on the basis of the actual needs of specific job requirements, the construction of talent team building and employees' career plan, so as to continuously improve the professional skills and knowledge level of employees.

The Group develops an annual talent development and training work plan, conducts employee training, and improves employees' comprehensive business level and management capabilities.



Hebei Company organizes new employee onboarding training



Hebei Company organizes the first commendation ceremony of "Technology Innovation Leaders," "Golden Diamond Engineers," and "Hebei Craftsmen."



**Case: Hubei Company's "Chief Master" selection solidly advances talent strengthening strategy**

Hubei Company always regards talent team construction as an important guarantee for fostering enterprise innovation drive and high-quality development, establishing and perfecting a talent work pattern led by the Party Committee, with the Human Resources Department taking the lead, functional departments each playing their roles, and closely cooperating. The selection and employment of Chief Engineers and Chief Technicians as one of the important measures of Hubei Company's 2023 talent strengthening strategy received high attention from the Company's Party Committee, with advance planning. According to the principles of virtue and talent, prioritizing virtue, facing the frontline, highlighting performance, and selecting the best among the best, the Company perfected the selection mechanism and standardized the selection procedures to ensure the objective and fair results of the "Chief Master" selection.



**Development Zone Branch organizes 2023 Annual Management Staff Office Software Training and "Be the Main Force, Strive for Excellence" skills competition**

The Development Zone Branch organized the 2023 Annual Management Staff Office Software Training and "Be the Main Force, Strive for Excellence" Skills Competition, explaining the operation methods and application techniques of commonly used office software such as Word, Excel, and PowerPoint. By combining theoretical explanations with practical operations and conducting live demonstrations based on actual work, the aim was to ensure every participant could proficiently master the basic operations of common office software, offering strong guidance, relevance, and operability for solving daily office problems. This significantly improved the management personnel's ability to use office software in their daily work, laying a solid foundation for future related tasks.



**Case: Guangdong Company Implements Multiple Measures to Strengthen Talent Cultivation**

Guangdong Company deeply implements the talent-strengthening enterprise strategy, organizing the second batch of regional technical experts, skilled craftsmen, and the first batch of "Voyage" talent selection, carrying out special actions to improve the competency of management staff, standardizing and perfecting the construction of skill assessment stations, and categorizing various field examination and study activities. The "Huadian Guangdong Talent Development Action Plan" was formulated, launching the first batch of regional technical expert and skilled craftsmen evaluations and appointments, comprehensively promoting the application of job series throughout the region, effectively broadening the growth channels for technical and skilled talents. Guangdong Company deepens the integration and collaboration between industry and education, jointly cultivating six engineering master's and doctoral students with institutions such as Shanghai Jiao Tong University and Ocean University of China, and conducting skill level assessments and certifications for 140 individuals across various job types. Young employees participated in the Group's Power Trader Contest and won a gold award. Guangdong Company hosted the Guangdong Province Offshore Wind Power Labor and Skills Competition and the Skills Competition for Operators of Gas Turbines of Grade 9F and above, securing first and fourth places, respectively. Three primary level units were honored with the "May Day Labor Diploma" and "May Fourth Medal" of Guangdong Province, and one individual received the "May Day Labor Medal" of Guangdong Province. Guangdong Company deepened the exploration and practice of enhancing the spiritual quality of youth with distinctive features of Huadian and Guangdong, summarizing distinctive practices according to the "Red, Green, Blue" youth "spectrum of three colors." One group was awarded the National May Fourth Red Flag Youth League Branch, one individual was recognized as an outstanding league cadre of central enterprises, and one individual was awarded as an outstanding league cadre of Guangdong Province.

1 collective acquisition  
National May Fourth  
Red Flag Youth League  
Branch

1 person won  
Excellent Youth  
League Cadres in  
Guangdong Province

1 person obtained  
Excellent Youth  
League Cadres of  
Central Enterprises

# Colorful Employee Activities

The Group proactively creates an energetic, active and united workplace to create a team with more cohesion and to stimulate the physical and psychological health of employees. The Group held a variety of cultural and sports activities every year to meet the spiritual and cultural needs of employees. In addition, the Group held various competitions, such as skills competition, and created a platform for employees to show their skills and talent, hoping to continuously improve the professional skills and professional quality of employees through the competition.



**Case: The Company's trade union was honored with the "Model Workers' Home" title by the Group.**

In recent years, the Company's trade union has adhered to the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, deeply implemented the spirit of important speeches, instructions, and directives by General Secretary Xi Jinping, and followed the various decisions and deployments of the Group, the Company Party Committee, and the Work Committee. Focusing on the core work, the trade union has fully assumed political responsibilities and fundamental duties, treating the construction of a "Home for Employees" as a fundamental project to warm, stabilize, and unite the hearts of employees. With integrity and innovation, proactive engagement, and active fulfillment of duties, the trade union has played a pivotal role as a bridge and bond, bringing vitality to the construction of the Company's workforce. In May, it was honored with the "Model Employees' Home" title by the Group.



**Case: Shuozhou Thermal Power organizes the "Beauty of Handcraft - Your Fragrant Pursuit for Joy" Women's Day activity for female employees**

Shuozhou Thermal Power organized the "Beauty of Handcraft - Your Fragrant Pursuit for Joy" Women's Day activity for female employees. A floristry tutor detailed and demonstrated the process, types, and precautions of making scented hanging ornaments. The more than fifty participating female employees showed great interest and enthusiasm. During the activity, everyone cooperated and helped each other, fully unleashing their imagination and creativity.



**Case: Shuozhou Thermal Power Branch conducts "Join Hands with China Huadian to Build a Green Home" brand promotion and public open day event**

On May 20th, the Shuozhou Thermal Power Branch conducted the "Join Hands with China Huadian to Build a Green Home" brand promotion and public open day event, with over 30 representatives of employees' families entering the Company to experience the unique charm of a garden-style power plant. Walking in the plant area, they were greeted with the fragrance of locust blossoms, with apricot, jujube, and pear trees attracting magpies and bees, while the clean and orderly Meridian Road was cooled by the lush ivy. For years, Shuozhou Thermal Power has insisted on creating a "garden-style" plant area, with greenery covering 50% of the area. Various types of trees and green plants constantly convey to the families of employees and media friends the vibrant and forward-moving life and the concept of green, low-carbon cleanliness.



Organizing free medical consultation activities for employees Fuel Logistics Company organizes Dragon Boat Festival activities

# 06

## Warmth Throughout the Year, Sharing a Beautiful Life

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The Group keeps in mind the responsibility as a centrally administered SOE, promotes the spirit of "caring everywhere", actively understands the needs of the community and considers the interests of the community, and serves the society with sincere altitude and sincere services. In this year, the Group consciously devoted itself to the cause of rural revitalization, while solidly promoting various community volunteer services, contributing love and serving the public with practical actions, and striving to convey the "Huadian warmth" to all over the country.

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- Promoting Rural Revitalization
- Caring about the Community



## Promoting Rural Revitalization

The Group responds to the national strategy, focuses on consolidating and expanding the results of poverty alleviation, consciously devotes itself to the course of rural revitalization and practiced social responsibility and corporate responsibility with practical actions. In 2023, the consumption assistance initiative was continued with the purchase of agricultural products from Xinjiang counties designated for poverty alleviation by the Group. Meanwhile, active support was provided to regional assistance efforts, further consolidating the achievements in poverty alleviation and contributing to rural revitalization, thereby fulfilling the social responsibilities of a central government enterprise.



In 2023, our group was honored with the **"Excellent Practice Case"** award in the **"2023 Listed Companies' Best Practices in Rural Revitalization"** initiative organized by the China Association of Public Companies.



**Case: Guangdong Company operates "Huadian Love Points Supermarket" to support rural revitalization**

Guangdong Company's stationed town assistance teams innovatively operate the "Huadian Love Points Supermarket" in Hou Village, Nanfeng Town, and established the "Huadian Love Supermarket Fund," allocating RMB 400,000 to explore a long-term operation mechanism of "actions for points, points for gifts." In June 2023, a New Era Civilization Practice Station was established, solidly carrying out "Bringing Substantive Benefits to the People" volunteer services, striving to "organize activities and welcome the public." The Guangdong Company has established "Party Member Hygiene Responsibility Zones," where party members lead villagers in rural governance. At the same time, through a "more work, more rewards" approach and substituting rewards for subsidies, it guides villagers to engage in rural revitalization practices, fully arousing their enthusiasm and initiative to participate in rural revitalization and the construction of a civilized community. In nearly two years of operation, more than 30 comparisons for living environment improvement, 6 educational assistance activities, 6 tree-planting activities were conducted, with over 2,900 residents and volunteers participating in activities such as living environment improvement. This ongoing effort has continuously enhanced the "aesthetic appeal," "character," and "quality" of rural areas.



Evaluation of Human Settlement Environment Improvement more than

**30** times



Residents and volunteers participating in activities more than

**2,900** people



Educational assistance activities

**6** times



Tree planting activities

**6** order

## Caring about the Community

The Group actively supports employees to participate in public welfare undertakings and brings care to the community by carrying out various employee volunteer activities.



**Case: Visiting and assisting visually impaired children**

Volunteers visited the Beijing Bethel Vision Impairment Care Center to carry out consolation and support activities, actively embodying the social responsibility of state-owned enterprises in the new era. Volunteers brought stationery and living supplies to the children and had in-depth exchanges with the teachers at the Bethel Care Center, learning about the daily lives of these children and the society's assistance given to them.



**Huadian Pingshi Company advances public welfare undertakings**

On July 7, 2023, Huadian Company conducted the "Love Passes On, Life Connects" blood donation activity, organizing party members, league members, and employees to promote socialist core values and convey the "China Huadian, Care at Every Moment" brand responsibility. A total of 25 individuals participated in the blood donation, contributing a total of 8,700 ml of blood, with a cumulative donation amounting to 119,100 ml. The Company organized a youth volunteer service team to conduct a "coolness delivery" activity once, participated in the "Protecting the Mother River by Planting Youth Forest" New Era Civilization Practice activity and the "Nanyue Ancient Post Road Orienteering Competition" volunteer activity, practicing central enterprise responsibility with real actions, and fully demonstrating the role of youth as a vital force.



**Case: Guangdong Qingyuan Company carried out the "Volunteer Service for Communities in the New Era" activity**

On March 5, the Youth League Committee of Guangdong Qingyuan Company, in conjunction with the Yinde Youth League City Committee, carried out the "Every Ten, Every Moment" New Era Civilization Practice Volunteer Service into the Community activity in the Chengzhong Community of Yinde City. Volunteers organized lectures and promotional activities for community residents on clean energy classification, energy industry analysis, energy-saving techniques, and electrical safety knowledge. They provided careful and detailed answers to the questions raised by community residents, helping them to continuously improve their knowledge of electricity and awareness of energy-saving and safe electricity use.

# Outlook

In 2024, Huadian Power International shall adhere to the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, fully implement the spirit of the 20th National Congress of the Communist Party of China and the Second Plenary Session of the 20th Central Committee, and the Central Economic Work Conference, comprehensively implementing the Group's various decisions and deployments. Adhering to stable progress, using progress to promote stability, and following a strategy of establishing foundations before breaking new ground, it will focus on deepening the "Four Strengths, Four Promotes" Party Building Project, creating "Four Types" of Party organizations. Aiming to quickly build a strong and large first-class energy listed company, the Company will solidly carry out activities to improve the quality of listed companies, coordinate the advancement of safety and environmental protection, transformation and development, quality and efficiency enhancement, and integrated management of internal control and compliance risks. It will focus on enhancing the Company's capacity for high-quality development and innovative collaborative service guarantee, continuously improving the Company's image and market reputation, and ensuring the comprehensive completion of the annual goals and tasks.

**Simplicity leads, action matters. The Group will deeply study and implement the spirit of the 20th National Congress, fully implement the decision-making deployments of the Company's Board of Directors, anchor annual goals and tasks, strengthen confidence, and unite in purpose and action. It will steadfastly work hard and boldly move forward, uniting and striving to accelerate the creation of a strong and large first-class energy listed company, and comprehensively create a new pattern of high-quality development for the Company!**



# Appendix

## Key Performance Indicators

Indicator	Unit	2023	2022	
<b>Section I: Environmental (E)</b>				
<b>Resource consumption</b>				
Water resources	Total water consumption for thermal power generation	10,000 metric tons	26,131.1	29,499.2
	Water consumption rate for power generation by thermal power companies	g/kWh	1,167.6	1,260.6
Energy	Comprehensive electricity consumption of thermal power plants	MWh	14,231,607.8	13,812,964.5
	Total gas consumption	10,000m <sup>3</sup>	395,269.0	397,395.0
	Total diesel oil consumption	10,000 metric tons	1.4	1.9
	Total coal consumption	10,000 metric tons	9,393.4	9,098.7
	Total standard coal consumption per unit of electricity generation	g/kWh	289.34	287.11
<b>Prevention and Control of Pollution</b>				
Gas Emissions	Sulfur dioxide emissions	ton	12,368	12,888
	Nitrogen oxide emissions	ton	22,208	22,300
	Smoke and dust emissions	ton	1,298	1,178
	Sulfur dioxide emission per unit of electricity generated	G/kWh	0.07	0.07
	Nitrogen oxide emissions per unit of electricity generation	G/kWh	0.12	0.12
	Smoke and dust emissions per unit of electricity generation	G/kWh	0.01	0.01
Solid Wastes	Total amount of waste catalyst produced	10,000 tons	2,423.72	2,830.88
	Total amount of waste dust collector bags produced	individual	25,132	40,931
	Total amount of waste dust collector bags disposed	individual	25,132	40,931
	Total amount of waste oil produced	ton	673.31	635.43
	Total amount of fly ash generated	10,000 tons	1,808.42	2,001.42
	Comprehensive utilization rate of fly ash	%	99.69	97.0
	Total amount of slag generated	10,000 tons	350.77	441.87
	Comprehensive utilization rate of slag	%	99.3	100
	Total amount of desulfurization gypsum produced	10,000 tons	528.81	646.45
	Comprehensive utilization rate of desulfurization gypsum	%	99.97	96.0
	Total amount of lead pollutants produced	ton	0	0
	Total amount of mercury pollutants produced	ton	0	0
	<b>Climate Change</b>			

Indicator	Unit	2023	2022	
GHG Emissions	Total emissions	10,000 tCO <sub>2</sub> e	17,891.4	17,007.2
	GHG emission per unit of electricity generated	kg/kWh	0.8	0.7
<b>Section II: Social (S)</b>				
<b>Employees' rights and interests</b>				
<b>Number of employees by type of employment</b>				
Employee composition	Number of permanent employees	person	24,778	24,755
	Number of labor dispatch employees	person	97	118
<b>Number of employees by gender</b>				
Employee composition	Number of male employees	person	19,418	19,344
	Number of female employees	person	5,457	5,529
<b>Number of employees by age groups</b>				
Employee composition	Under 24 years old	person	1,720	1,552
	25-29 years old	person	3,064	3,058
	30-34 years old	person	3,473	3,388
	35-39 years old	person	2,436	2,230
	40-44 years old	person	2,719	2,988
	45-49 years old	person	4,408	4,741
	50-54 years old	person	4,652	4,599
55 years old and above	person	2,403	2,371	
<b>Number of employees by geographic region</b>				
Employee composition	Beijing	person	118	119
	Shandong	person	11,388	11,106
	Hubei	person	2,735	2,579
	Anhui	person	282	1,187
	Ningxia	person	6	2
	Sichuan	person	1,453	1,469
	Zhejiang	person	1,051	1,059
	Hebei	person	2,291	2,343
	Henan	person	1,099	1,019
	Guangdong	person	1,397	1,309

Indicator	Unit	2023	2022
Tianjin	person	718	691
Shanxi	person	459	467
Inner Mongolia	person	65	46
Chongqing	person	427	404
Hunan	person	1,090	985
others	person	296	88
<b>Number of employees by type of position</b>			
Management positions	person	5,167	5,210
Professional technical positions	person	2,935	2,888
Production positions	person	15,915	15,792
Service positions	person	734	842
Others	person	124	141
<b>Number of employees by employee educational background</b>			
Master's degree or above	person	1,201	1,077
Bachelor's degree	person	13,037	12,403
Associate degree	person	6,841	7,190
Technical secondary school diploma	person	2,147	2,362
Technical school diploma	person	517	559
High school diploma and below	person	1,132	1,282
Social insurance coverage	%	100	100
Employee critical illness insurance coverage rate	%	100	100
Number of work-related fatalities	person	0	0
Work related mortality rate	%	0	0
Number of lost work days due to various safety accidents	day	0	2,340
<b>Number of training participants by gender</b>			
Number of male employees trained	person	19,182	18,767
Number of female employees trained	person	5,407	5,330
Training coverage of male employees	%	78.01	77.9
Training coverage of female employees	%	21.99	22.1
<b>Number of training participants by type of employee</b>			
Enterprise leaders (including directors and supervisors)	person	448	445
Professional management personnel	person	4,887	4,405
Professional technical personnel	person	3,387	3,106
Skilled personnel	person	15,867	16,087
Training coverage for enterprise leaders (including directors and supervisors)	%	1.82	1.8

Employee  
Remuneration and  
Benefits

Indicator	Unit	2023	2022
Training coverage for professional management personnel	%	19.87	18.3
Training coverage for professional management personnel	%	13.77	13.1
Training coverage for skilled personnel	%	64.53	66.8
<b>Training attendance by type of training program</b>			
Participation in the training of China Huadian and higher authorities	attendance	40,872	10,756
Job qualification training	attendance	19,492	7,419
Adaptability training	attendance	88,495	64,099
Technical level training	attendance	44,045	39,608
Continuing education training	attendance	1,087	708
Other training	attendance	129,479	94,528
<b>Training attendance by type of employment</b>			
Permanent employees	attendance	323,097	24,755
Labor dispatch employees	attendance	373	118
<b>Average training duration by gender</b>			
Male employees	hour	83.87	86
Female employees	hour	83.06	83
<b>Average training duration by type</b>			
Enterprise leaders (including directors and supervisors)	hour	142.54	122
Professional management personnel	hour	81.05	85
Professional technical personnel	hour	81.63	82
Skilled personnel	hour	83.28	85
Employee satisfaction survey	%	100	100
Number of labor disputes in the year	-	0	0
<b>Number of employee turnover by gender</b>			
Male employees	person	135	159
Female employees	person	15	36
<b>Number of employee turnover by age</b>			
Under 24 years old	person	25	24
25-29 years old	person	43	63
30-34 years old	person	47	64
35-39 years old	person	26	22
40-44 years old	person	5	9
45-49 years old	person	4	8
50-54 years old	person	0	5
55 years old and above	person	0	0
<b>Number of employee turnover by region</b>			
Beijing	person	1	0

Employee Remuneration  
and BenefitsEmployee  
satisfaction rate

Indicator		Unit	2023	2022
Employee satisfaction rate	Shandong	person	18	17
	Hubei	person	13	27
	Anhui	person	3	12
	Ningxia	person	0	0
	Sichuan	person	18	5
	Zhejiang	person	2	12
	Hebei	person	8	9
	Henan	person	18	39
	Guangdong	person	46	36
	Tianjin	person	2	6
	Shanxi	person	0	4
	Inner Mongolia	person	0	0
	Chongqing	person	5	17
	Hunan	person	13	11
Others	person	3	0	
<b>Products and Services Management</b>				
Innovation- and development	Number of invention patents	-	35	23
	Number of utility model patents	-	421	456
	Number of design patent registrations	-	3	3
<b>Supply Chain Security and Management</b>				
supplier management	Number of suppliers	-	2,296	3,912
	Number of suppliers from the Chinese mainland	-	2,294	3,910
	Number of suppliers from Hong Kong, China	-	2	2

• From the reporting period, statistics and disclosures of employee turnover rate data began. The calculation method for detailed items of employee turnover rate (i.e., employee turnover rate divided by gender, age group, and region) is the number of employees lost in relevant categories divided by the total number of employees in those categories for the year.

• From the reporting period, statistics and disclosures of the number and percentage of employees participating in training began. The calculation method for detailed items of the percentage of employees participating in training (i.e., divided by gender and employee type) is the number of employees participating in training in relevant categories divided by the total number of employees participating in training for the year.

## Indicators Index

### Index of ESG Guidelines for the Hong Kong Stock Exchange

Aspect	Index	Report location/notes
Aspect A1: Emissions General Disclosure	General disclosure	Strict management and protection of green waters and mountains
	Key Performance Indicator A1.1	Strict management and protection of green waters and mountains Key Performance Table
	Key Performance Indicator A1.2	Strict management and protection of green waters and mountains Key Performance Table
	Key Performance Indicator A1.3	Strict management and protection of green waters and mountains Key Performance Table
	Key Performance Indicator A1.4	Strict management and protection of green waters and mountains Key Performance Table
	Key Performance Indicator A1.5	Strict management and protection of green waters and mountains Key Performance Table
Aspect A2: Resource Utilization	Key Performance Indicator A1.6	Strict management and protection of green waters and mountains
	General disclosure	Strict management and protection of green waters and mountains
	Key Performance Indicator A2.1	Strict management and protection of green waters and mountains Key Performance Table
	Key Performance Indicator A2.2	Strict management and protection of green waters and mountains Key Performance Table
	Key Performance Indicator A2.3	Strict management and protection of green waters and mountains
Aspect A3: Environment and Natural Resources	Key Performance Indicator A2.4	Strict management and protection of green waters and mountains Key Performance Table
	Key Performance Indicator A2.5	Due to the nature of our group's business, this item is not applicable to our group
	General disclosure	Strict management and protection of green waters and mountains
Aspect A4: Climate Change	Key Performance Indicator A3.1	Strict management and protection of green waters and mountains Key Performance Table
	General disclosure	Strict management and protection of green waters and mountains
Aspect B1: Employment	Key Performance Indicator A4.1	Strict management and protection of green waters and mountains
	General disclosure	Work together to build an excellent team
	Key Performance Indicator B1.1	Work together to build an excellent team Key Performance Table
Aspect B2: Health and Safety	Key Performance Indicator B1.2	Work together to build an excellent team Key Performance Table
	General disclosure	Stable production and supply, building a solid safety bottom line
	Key Performance Indicator B2.1	Stable production and supply, building a solid safety bottom line Key Performance Table
	Key Performance Indicator B2.2	Stable production and supply, building a solid safety bottom line Key Performance Table
	Key Performance Indicator B2.3	Stable production and supply, building a solid safety bottom line Key Performance Table



Aspect	index	Report location/notes
Aspect B3: Development and training	General disclosure	Work together to build an excellent team
	Key Performance Indicator B3.1	Work together to build an excellent team Key Performance Table
	Key Performance Indicator B3.2	Work together to build an excellent team Key Performance Table
Aspect B4: Labor Standards	General disclosure	Work together to build an excellent team
	Key Performance Indicator B4.1	Work together to build an excellent team Key Performance Table
	Key Performance Indicator B4.2	Work together to build an excellent team Key Performance Table
Aspect B5: Supply chain Management	General disclosure	Simplify the Way and Promote High Quality Development
	Key Performance Indicator B5.1	Simplify the Way and Promote High Quality Development Key Performance Table
	Key Performance Indicator B5.2	Simplify the Way and Promote High Quality Development Key Performance Table
	Key Performance Indicator B5.3	Simplify the Way and Promote High Quality Development Key Performance Table
	Key Performance Indicator B5.4	Simplify the Way and Promote High Quality Development Key Performance Table
Aspect B6: Product liability	General disclosure	Due to the nature of our group's business, health, advertising, and labeling matters related to the electricity provided
	Key Performance Indicator B6.1	Due to the nature of our business, this item is not applicable to our group
	Key Performance Indicator B6.2	Stable production and supply, building a solid safety bottom line
	Key Performance Indicator B6.3	Simplify the Way and Promote High Quality Development
	Key Performance Indicator B6.4	Due to the nature of our business, this item is not applicable to our group
	Key Performance Indicator B6.5	Stable production and supply, building a solid safety bottom line
Aspect B7: Anti Corruption	General disclosure	Simplify the Way and Promote High Quality Development
	Key Performance Indicator B7.1	Simplify the Way and Promote High Quality Development
	Key Performance Indicator B7.2	Simplify the Way and Promote High Quality Development
	Key Performance Indicator B7.3	Simplify the Way and Promote High Quality Development

Aspect	index	Report location/notes
Aspect B8: Community Investment	General disclosure	Warmth Throughout the Year, Sharing a Beautiful Life
	Key Performance Indicator B8.1	Warmth Throughout the Year, Sharing a Beautiful Life Key Performance Table
	Key Performance Indicator B8.2	Warmth Throughout the Year, Sharing a Beautiful Life Key Performance Table

● **GRI Content Index**

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<b>Message from the Management</b>	GRI 2-22
<b>About Huadian Power International</b>	
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Business Overview	GRI 2-6
Events of the Year	/
<b>Strengthening Governance Strategies by Practicing Ethics and Integrity</b>	
Corporate Governance	GRI 203,
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Actively Explore the Market	GRI 201, GRI 203
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<b>Strict Management, Protecting Lucid Waters and Lush Mountains</b>	
Strengthening Environmental Management	GRI 301, GRI 303, GRI 307
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directory	GRI Sustainable Development Reporting Guidelines
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## ● Disclaimer

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华电国际电力股份有限公司  
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