

Stock Abbreviation: Huadian Power International

Stock Code: 600027.SH; 1071.HK

Stock Exchange: Shanghai Stock Exchange;

The Stock Exchange of Hong Kong

2024

Environmental  
Social and Governance  
(ESG) Report



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ABOUT THIS REPORT

01

ABOUT HUADIAN POWER INTERNATIONAL

03

COMPANY PROFIL	05
EVENTS OF THE YEAR	05
BUSINESS OVERVIEW	06
CORPORATE HONORS	06
BOARD STATEMENT	07
MATERIALITY ASSESSMENT	09

STRENGTHENING FOUNDATIONS, EMPOWERING MANAGEMENT UPGRADE

13

SUSTAINABLE DEVELOPMENT MANAGEMENT	15
PARTY BUILDING-LED DEVELOPMENT	21
CORPORATE GOVERNANCE SYSTEM	25
INTERNAL CONTROL AND COMPLIANCE MANAGEMENT	29
UPHOLDING BUSINESS ETHICS	33

PROGRESSING TOGETHER, BUILDING A BETTER FUTURE

37

SAFEGUARDING EMPLOYEE RIGHTS	39
IMPLEMENTING CONTINUOUS INNOVATION	49
ENSURING SUPPLY CHAIN SECURITY	53
ENHANCING CUSTOMER SERVICE	56
FULFILLING SOCIAL RESPONSIBILITIES	57

LOW-CARBON OPERATIONS, PURSUING GREEN MISSIONS

61

ADDRESSING CLIMATE CHANGE	63
STRENGTHENING ENVIRONMENTAL MANAGEMENT	67
OPTIMIZING ENERGY UTILIZATION	73
ADVANCING ENVIRONMENTAL PROTECTION	77

FUTURE OUTLOOK

79

APPENDIX

81

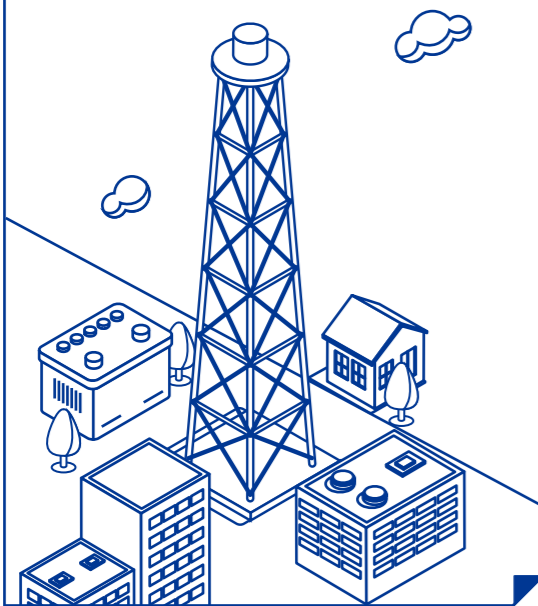
KEY PERFORMANCE INDICATORS	81
INDICATOR INDEX	91
DISCLAIMER	96

TABLE OF CONTENTS

CONTENTS

# About This Report

This report is the 9th ESG report issued by Huadian Powre International Corporation Ltd. ("the Company" or "Huadian Power International") and its subsidiaries ("the Group"), with the principle of authenticity and reliability, which discloses the work and achievements of the environment,social and corporate governance in 2024.



## Reporting Scope

This Report encompasses the activities of Huadian Power International Corporation Ltd. and its subsidiaries, unless otherwise specified. It covers the period from January 1 to December 31, 2024, with some information extending beyond this timeframe.

## References

We have compiled this Report in accordance with the Research on ESG Special Report Preparation for Listed Companies Controlled by Centrally Administered State-owned Enterprises by the State-owned Assets Supervision and Administration Commission (SASAC) of the State Council, the Shanghai Stock Exchange' s (SSE) Self-Regulatory Guidelines for Listed Companies No. 14 - Sustainability Report (For Trial Implementation), the Stock Exchange of Hong Kong' s (SEHK) Environmental, Social and Governance Reporting Guide.

## Contact Information

We value your feedback as it helps us continually improve our environmental and social performance. For any inquiries or suggestions regarding this Report, please contact us:

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## Reporting Principles

### Materiality

We have identified key issues through stakeholder communication and materiality assessment, forming the core of this Report.

### Quantitative

Where applicable, we have provided annotations detailing the standards, methodologies, and assumptions used for quantitative data.

### Balance

To reflect objective facts and ESG practices, we have primarily relied on content management documents, statistics and publicly disclosed information, and media reports.

### Consistency

To facilitate meaningful comparisons, we have maintained consistent disclosure methods with previous reports, unless otherwise noted.

## Terminology

### Company Abbreviation

Huadian Power International/the Company /Company/we

### Full Company Name

Huadian Power International Corporation Ltd.

## Data Source

The information and data presented in this Report are derived from Huadian Power International' s internal documents and publicly available sources, unless otherwise indicated. The Board of Directors has reviewed and approved this Report, ensuring its content is free from any false records, misleading statements, or material omissions.

## Monetary Unit

All monetary figures are in Chinese Yuan (RMB), unless otherwise specified.

## Report Preparation Process

This Report was developed through a comprehensive process including stakeholder interviews, data gathering, framework development, content creation, design, and review by relevant departments and senior management.

## Access to the Report

This Report is available for viewing and download on the SSE website (<https://www.sse.com.cn>) and Huadian Power International' s official website(<http://www.hdpi.com.cn/>).



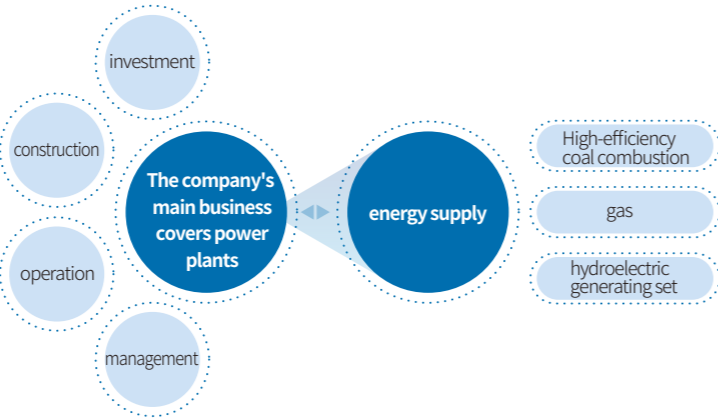
# About Huadian Power International



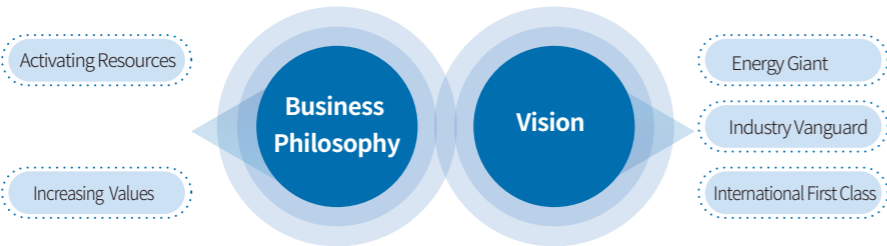
- Company Profile
- Events of the Year
- Business Overview
- Corporate Honors
- Board Statement
- Materiality Assessment

Company Profile

Huadian Power International Corporation Ltd., headquartered in Jinan, Shandong Province, China, has evolved into one of China's leading comprehensive energy enterprises. Our core business encompasses the investment, construction, operation, and management of power plants. We operate a diverse portfolio of efficient coal-fired, gas-fired, and hydro-electric power generation units, committed to providing safe, stable, and clean energy to society.



Throughout our history, we have consistently adhered to scientific development principles and value creation philosophies. Guided by our strategic vision, we continually optimize our industrial structure and drive high-quality growth. Through refined management practices, efficiency improvements, and talent cultivation, we have steadily enhanced our overall competitiveness. Our power generation assets are strategically located across twelve provinces, autonomous regions, and municipalities throughout China, focusing on power load centers, thermal load centers, and coal-rich regions, thereby providing robust support for energy supply security.



Events of the Year

In 2024, to actively respond to the call from the State Council, SASAC, and CSRC to enhance the quality of listed companies and improve the sustainable profitability, Huadian Power International plans to cquire Jiangsu Company's equity held by Huadian Group through the issuance of shares or a combination of shares and cash. It also intends to purchase the equity of Shanghai Fuxin and Shanghai Minhang companies from Huadian Furui through the payment of cash, and to acquire the equity of Guigang Company from the operating company in cash. Additionally, the company plans to issue shares to no more than 35 specific investors to raise additional funds to support the transaction. This transaction is a significant move to improve the quality of the listed company. Upon completion, Huadian Power International will achieve a breakthrough in the regions of Jiangsu, Shanghai, and Guangxi, and will complete full coverage in the regions of Jiangsu, Guangxi, and Guangdong, leading to a more comprehensive and balanced asset layout domestically.

Business Overview

Huadian Power International pursues clean, low-carbon, safe, and efficient development. We actively promote comprehensive energy service projects and continuously optimize our energy structure. Keeping pace with emerging technology trends, we conduct in-depth research and explore new business models such as energy storage and geothermal energy, driving technological innovation and resource management transformation. By enhancing resource integration and utilization efficiency, we continuously expand our development horizons and business dimensions, facilitating high-quality sustainable growth while strengthening our core competitiveness and long-term potential.

Corporate Honors

The Second CRHC ESG rating Golden Bull Award "Top 20 in Governance" "Most Investment-Worthy Award" of the 26th China Securities Journal Golden Bull Award

"Outstanding Board of Directors Award" of the 19th "Golden Round Table Award" Sub-awards

"Excellent Listed Company" of the China Securities Golden Bauhinia Award for six consecutive years

The highest A-level evaluation result in information disclosure work among listed companies on the Shanghai Stock Exchange for ten consecutive years

The Corporate Honors section features a central trophy graphic. Surrounding the trophy are four award certificates, each with a descriptive text box. The awards include the Second CRHC ESG rating Golden Bull Award, the "Outstanding Board of Directors Award", the "Excellent Listed Company" award, and the highest A-level evaluation result in information disclosure work.

# Board Statement

The Company’ s Board of Directors has reviewed, confirmed, and approved this Report, ensuring that it comprehensively reflects our policies, practices, and achievements in Environmental, Social, and Governance (ESG) aspects.

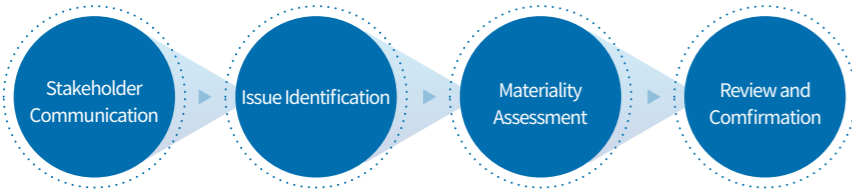
The Strategic Committee of the Board, serving as the core decision-making body for ESG management, is fully responsible for assessing and managing ESG-related risks and opportunities. It spearheads the formulation of ESG strategic plans, optimizes the management structure, refines the institutional system, and drives the implementation of relevant strategies. The Committee closely monitors the impact of ESG issues on our business operations and stakeholders, ensuring the continuous execution of all ESG policies.

Under the leadership and supervision of the Board’ s Strategic Committee, various functional departments, business units, and subsidiaries of the Company collaborate closely with clear divisions of responsibility. Together, they advance the implementation of ESG requirements and policies, ensuring the deep integration of sustainable development concepts in corporate operations.

Materiality Assessment

Issue Identification

The Company conducts comprehensive stakeholder surveys and materiality assessments following a structured approach: “Stakeholder Communication - Issue Identification - Materiality Assessment - Review and Confirmation.” We systematically identify key ESG issues facing the Company, evaluating them along two dimensions: Financial Materiality” and “Impact Materiality.” Drawing on local regulatory policies, stakeholder needs analysis, ESG disclosure standards, and leading international ESG ratings, we have pinpointed 15 highly relevant issues for our organization.



Stakeholder Communication

Huadian Power International is dedicated to maintaining open, transparent, and consistent communication with our diverse stakeholders through multiple channels. In identifying stakeholders, we carefully consider both their influence on the Company and our impact on them. We have clearly defined our primary stakeholder categories and employ various methods to understand their expectations and requirements regarding our sustainable development initiatives. This insight allows us to regularly assess and adjust our work plans, actively addressing stakeholder concerns through concrete actions. Throughout the reporting period, we successfully implemented various responsibility communication initiatives through our effective communication mechanism of “Identification - Engagement - Assessment - Response - Reporting.”

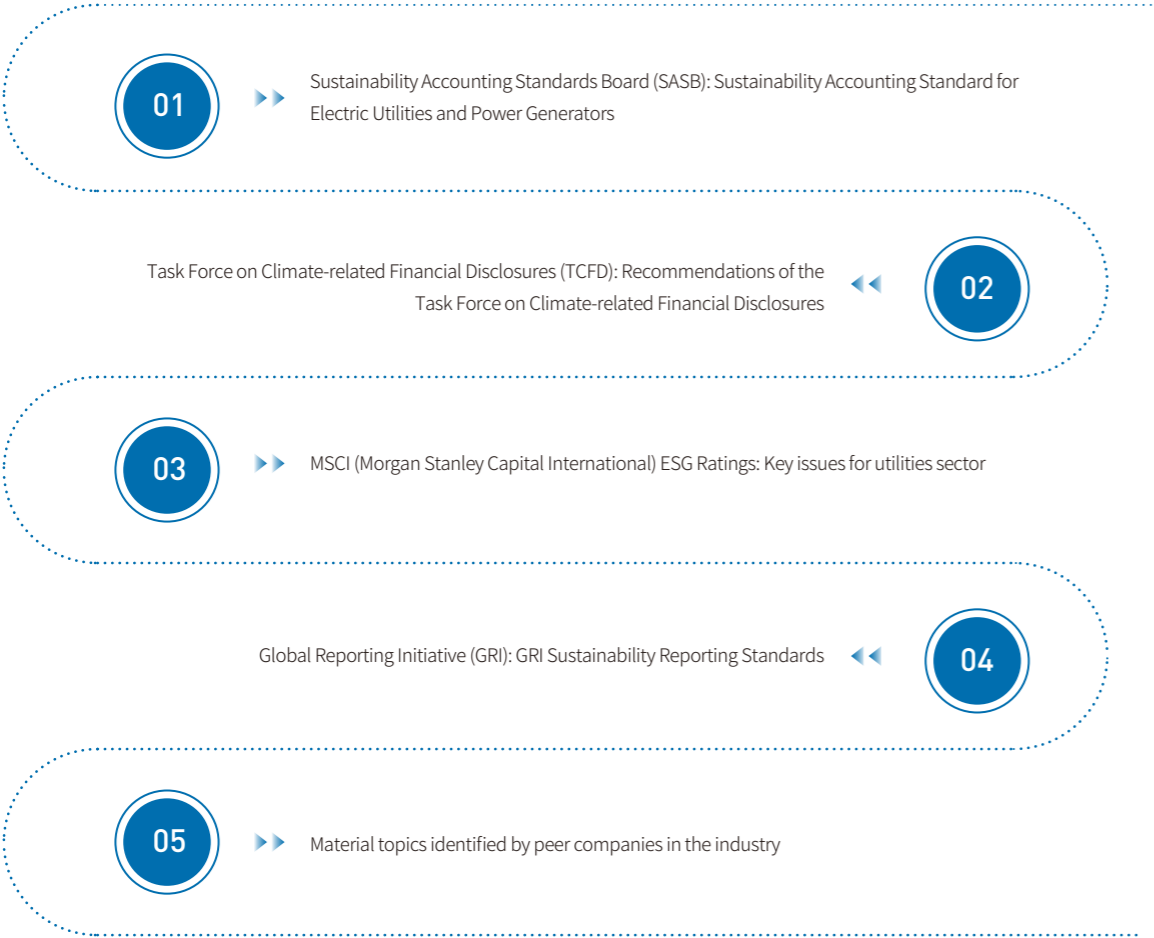


Stakeholders	Expectations and Concerns	Communication Channels	Our Actions
 Government and Regulatory Bodies	Legal and regulatory compliance Lawful operations Tax compliance Energy supply security Structural optimization Energy conservation and emissions reduction Ecological protection	Policy formulation input Work reports submission Regulatory information disclosure High-level meetings	Strictly adhering to national laws and regulations Promptly disseminating legal and regulatory updates Proactively cooperating with regulatory authorities Ensuring reliable electricity and heat supply Aligning with national strategies to enhance environmental stewardship
 Shareholders	Revenue growth Profitability Robust corporate governance Regular investor communications	Annual general meetings Corporate announcements Periodic financial reports Investor roadshows	Driving economic efficiency Enhancing operational quality and efficiency to boost profitability Improving risk management and internal control systems Strengthening transparency through enhanced information disclosure Organizing regular employee engagement activities
 Employee	Protection of employee rights Occupational health and safety Professional development and training Work-life balance	Work meetings Employee feedback mechanisms Labor contract negotiations Team-building activities	Refining human resource management practices to safeguard employee rights Prioritizing workplace safety and implementing comprehensive occupational health measures Enhancing talent development programs to improve employee competencies
 Customers	Reliable supply Quality service assurance Effective quality management	Service level agreements Customer support services Corporate website and digital platforms	Improving operational efficiency to ensure stable and safe energy supply Providing comprehensive customer support for electricity and heat services Refining quality management systems Fostering innovation to enhance production efficiency
 Suppliers and Other Partners	Fair and transparent processes Mutually beneficial partnerships	Contractual agreements Supplier performance reviews	Ensuring equitable and transparent procurement processes Maintaining commitment to contractual obligations
 Communities	Community development initiatives Targeted poverty alleviation programs Environmental stewardship	Community outreach programs Corporate social responsibility initiatives Environmental awareness campaigns	Maintaining reliable energy supply to communities Participating in community development projects Engaging in voluntary social services Implementing robust environmental protection measures Organizing power plant open days to educate the public on operations

Results of Materiality Assessment

Informed by stakeholder questionnaire results and taking into account the Company’s development strategy, expert recommendations, and industry trends, Huadian Power International has identified key material issues. These include production safety, supply chain security, and climate change response.

In preparing for the materiality assessment, we used the disclosure requirements outlined in Appendix 27, ESG Reporting Guides, of the Rules Governing the Listing of Securities of Stock Exchange of Hong Kong Limited as our benchmark. Additionally, we consulted the following guidelines to review material issues from previous years and subsequently developed a comprehensive pool of potential materiality issues for the current reporting period:



During the materiality assessment phase, our Securities Management Department meticulously analyzed and evaluated stakeholder expectations. Thoroughly considering our business nature and development strategies, they conducted a thorough review and update of significant sustainability issues for the reporting period, culminating in the derivation of our materiality analysis results.

<b>Impact Materiality</b> Data Security and Customer Privacy Protection Social Contribution and Impact Employee Rights and Professional Development Ecosystem and Biodiversity Conservation Anti-Bribery and Anti-Corruption Measures Water Resource Management Pollutant Emissions Control Waste Management Practices Circular Economy Initiatives Innovation-Driven Development Risk Management Environmental Compliance	<b>Double Materiality</b> Climate Change Mitigation Supply Chain Security Measures
<b>Non-material Issues</b> Ethical Considerations in Technology Rural Revitalization Efforts Fair Treatment of SMEs Anti-Unfair Competition Practices Due Diligence Processes Product and Service Safety and Quality Assurance	<b>Financial Materiality</b> Occupational Health and Safety

## 02 Strengthening Foundations Empowering Management Upgrade

Huadian Power International consistently upholds its core values of “Conscientiousness, Integrity, Innovation, and Harmony,” continuously optimizing and enhancing its sustainable development management practices. Through years of exploration and implementation, the Company has gradually established a scientific and standardized management structure while constantly refining its internal monitoring mechanisms. This approach has effectively ensured efficient corporate governance, laying a solid foundation for sustainable development. While achieving steady business growth, we remain dedicated to fulfilling our social responsibilities, promoting environmental protection, and conserving resources, striving to achieve a balance between economic and social benefits.



Sustainable Development Management

Governance

In its commitment to corporate social responsibility, Huadian Power International actively strengthens the management of environmental, social, and governance (ESG) related issues. The Company has progressively built a social responsibility management system characterized by clear responsibilities and vertical integration. By continuously refining its management structure, we have developed a tiered management model comprising the Board of Directors, the Strategic Committee, senior management, various functional departments, and subordinate units. This model effectively leverages the roles of management at all levels in addressing social responsibility, further enhancing the systematic and professional approach to ESG management.

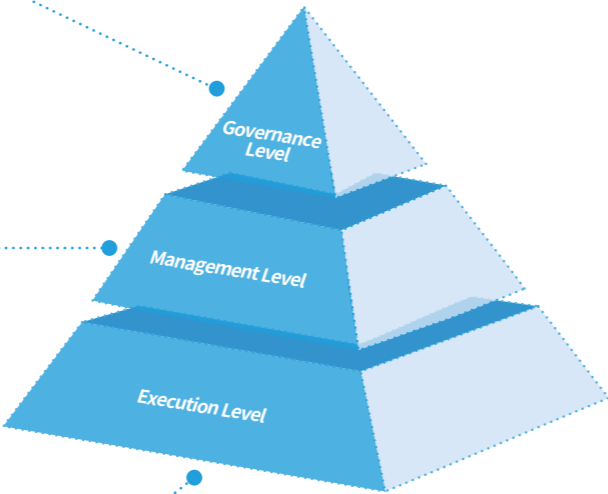
**Board of Directors:** The Board of Directors serves as the highest decision-making body for ESG management, overseeing and managing the Company’s ESG affairs comprehensively. It bears overall responsibility for the Company’s ESG strategy and reporting, including matters related to business risk assessment and management.

**Strategic Committee (under the Board):** Tasked with formulating the Company’s ESG strategy, policies, and objectives, as well as regularly reporting implementation progress and assessment results to the Board of Directors

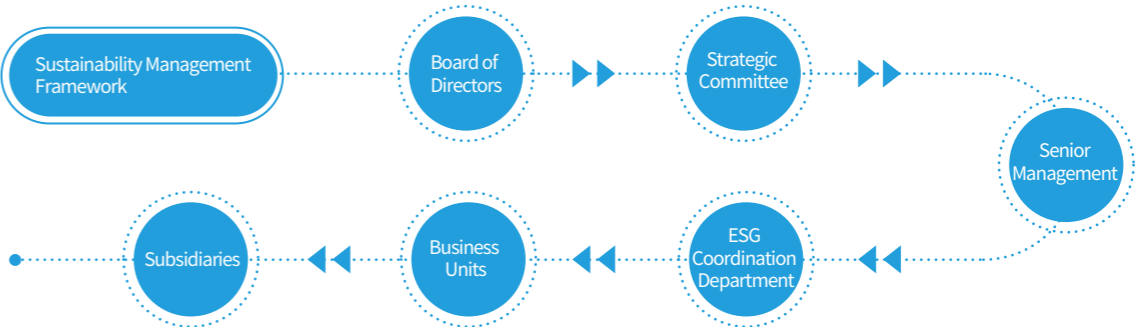
**Senior Management:** Responsible for monitoring the implementation progress of the Company’s ESG strategic plans, policies, and objectives. Additionally, reviews material ESG issues and reports to the Strategic Committee as appropriate, actively promoting the integration of ESG principles with business operations.

**ESG Working Group:** Charged with identifying and assessing potential risks to the Company from key issues such as climate change, developing response plans, and implementing specific actions to mitigate climate change impacts.

**Functional Departments & Subsidiaries:** Responsible for implementing ESG-related initiatives within their respective departments or subsidiaries. This includes collaboratively collecting, collating, and analyzing ESG information, compiling various indicators, and submitting relevant data in a timely manner to ensure the smooth advancement of overall ESG management.



The Company’s various business departments, in accordance with their designated responsibilities, provide regular progress reports to the Strategic Committee, ensuring the effective implementation of all ESG initiatives. Throughout the reporting period, Huadian Power International continued to enhance its ESG management, with a particular focus on addressing climate change, promoting environmental protection, facilitating low-carbon transition, maintaining safety in production, and safeguarding occupational health. We further reinforced standardized management requirements and continually refined our routine supervision mechanisms to guarantee the comprehensive execution of all ESG measures.



Information Disclosure Mechanism

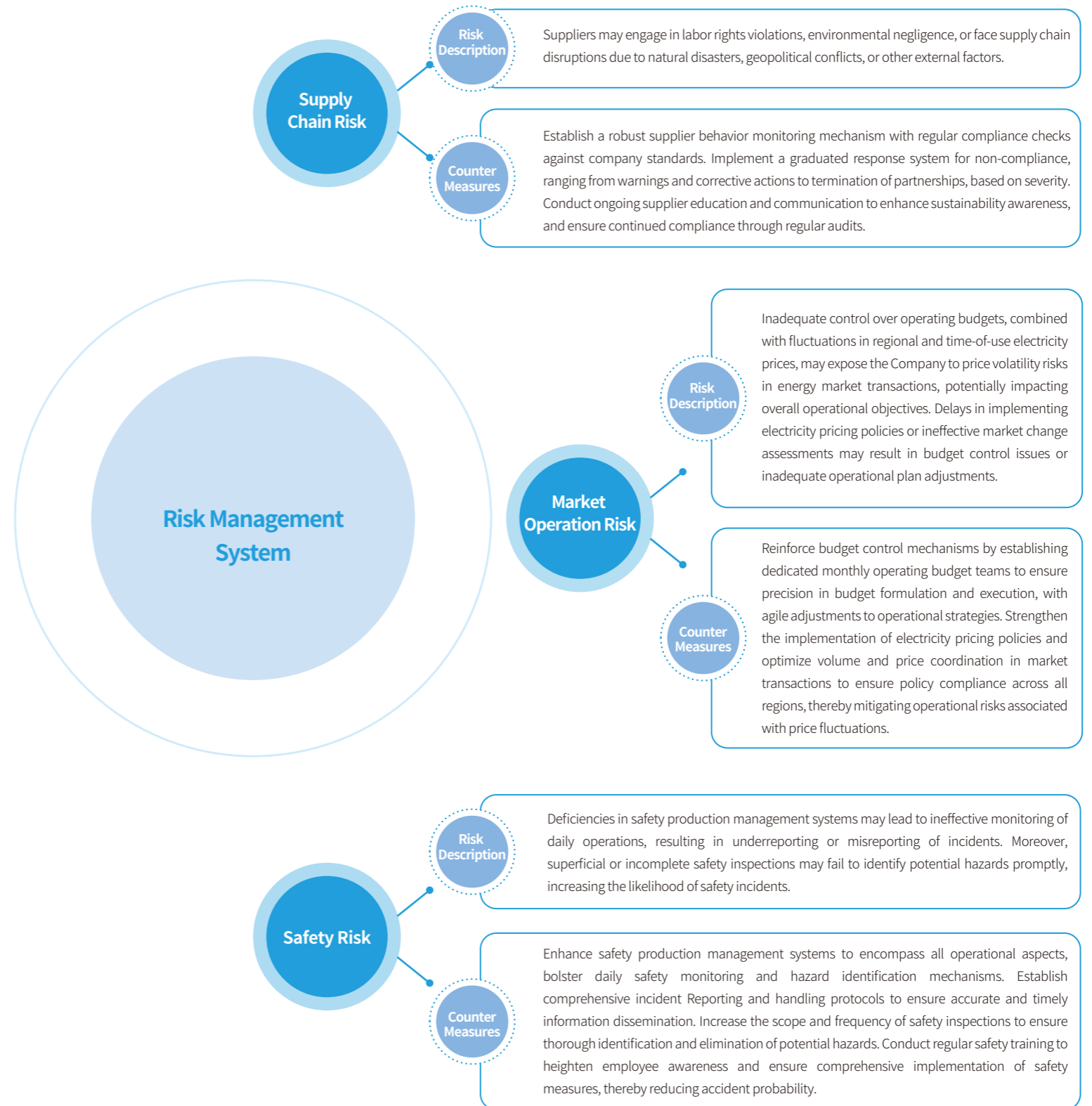
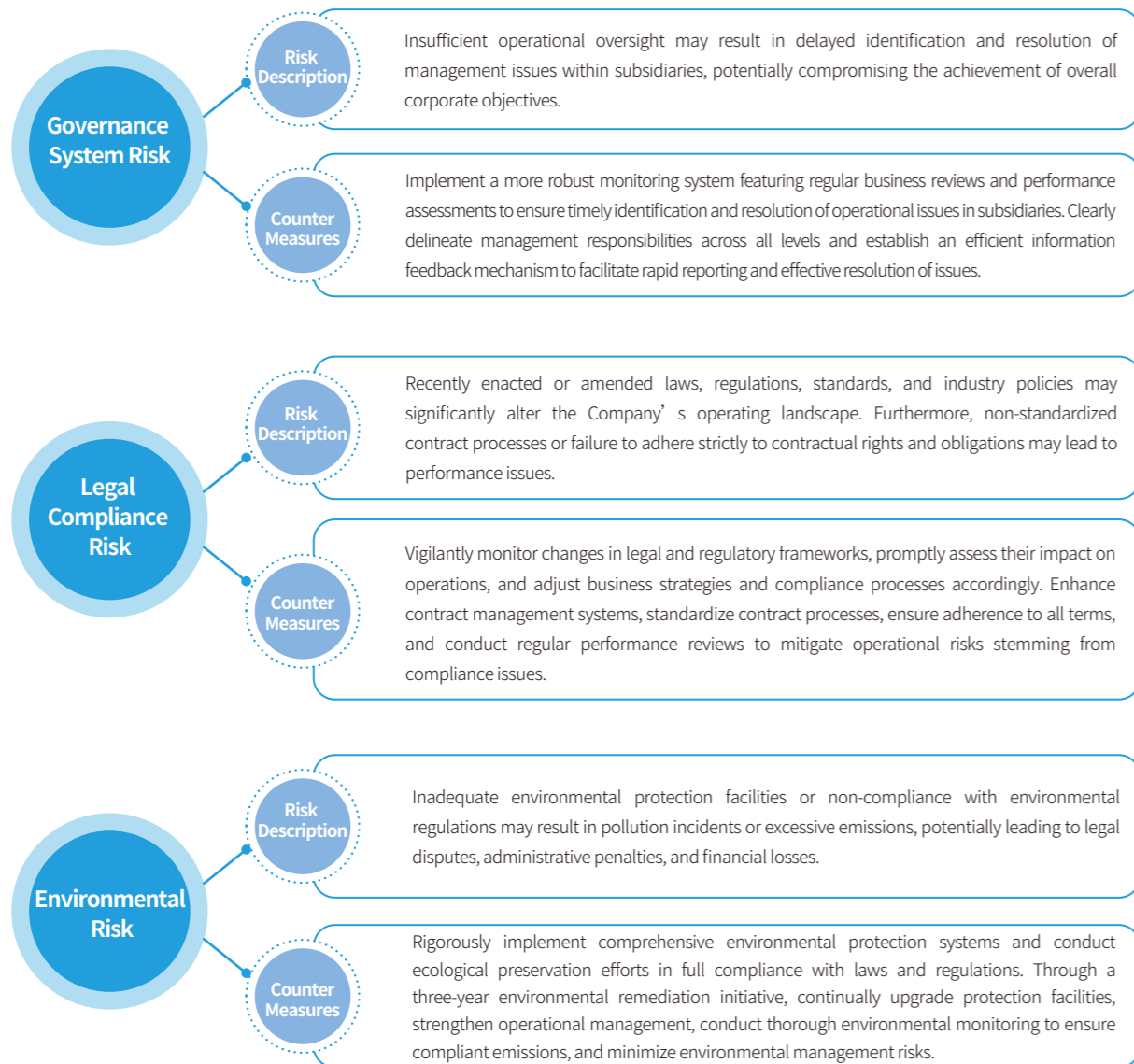
The Company consistently upholds the principles of transparency, consistency, and integrity in its disclosures, regularly publishing financial reports, announcements, and other pertinent information through official channels, including its corporate website. Additionally, we have implemented regulatory documents such as the Huadian Power International Corporation Ltd. Sustainability Report and ESG Report Preparation Management Measures. Through various means, including annual reports and ESG reports, the Company provides comprehensive disclosure of sustainability-related information, ensuring the authenticity and transparency of its communications. This approach strictly adheres to regulatory requirements and safeguards investors’ right to information.

ESG Capacity Enhancement Mechanism

To stay abreast of industry developments, the Company regularly engages external professional teams to conduct ESG training sessions and facilitate knowledge exchanges. These sessions focus on the latest industry trends, key issues, and core elements of ESG ratings. By incorporating the expertise and insights of external specialists, we ensure that our ESG management practices and information disclosure protocols remain aligned with industry advancements, thereby providing robust support for achieving our sustainable development objectives.

## Strategy

In the realm of governance and operational management, Huadian Power International have established a comprehensive internal control and risk management system. This system enables the Company to analyze and identify ESG-related risks and their potential impacts, isolate risk factors that are highly correlated with ESG considerations and develop appropriate strategic response measures.



## Impact, Risk, and Opportunity Management

Huadian Power International consistently adheres to a risk management philosophy that prioritizes prevention while maintaining readiness for emergency response. In compliance with the Comprehensive Risk Management Guidelines for Centrally Administered State-owned Enterprises and related regulatory policies, the Company conduct thorough identification and assessment of various risks. Through meticulous categorization, the Company have classified risks into areas including governance, legal compliance, environmental protection, safety, and market operations, with specific emphasis on ESG-related risks. For each identified risk, the Company has developed comprehensive response plans and clearly designated responsible parties, ensuring swift and effective implementation of measures to maintain operational stability and continuity in the event of risk materialization.



In its pursuit of sustainable development, the Company has identified and analyzed diverse risks and opportunities across short-term (0-5 years), medium-term (5-15 years), and long-term (15+ years) horizons. The Company have strategically allocated financial, technological, and management resources in alignment with the unique characteristics of each time frame.



## Indicators and Targets



### Energy Transition

Promote energy structure transformation by reducing reliance on traditional energy sources, increase investment in renewable energy, and actively support national low-carbon development initiatives.



### Sustainable Supply Chain Development

Establish a robust green supply chain system, enhance supplier ESG assessment and management practices, encourage the adoption of environmentally friendly processes and low-carbon technologies among suppliers, and improve overall supply chain sustainability.



### Safety Production

Implement comprehensive safety production management systems, continually enhance safety training and emergency response mechanisms, refine safety risk assessment protocols, ensure adherence to the highest safety standards in all production operations, and foster a “zero-accident” safety culture throughout the organization.



### Ecological and Environmental Protection

increase investment in state-of-the-art environmental protection facilities, strengthen water resource management and waste treatment processes, minimize pollutant emissions, safeguarding biodiversity, and actively contribute to sustainable ecological and environmental development.



### Employee Care and Career Development

Enhance employee career development frameworks, optimize training mechanisms, promote diverse and inclusive work environments, boost employee satisfaction and sense of belonging, and cultivate harmonious labor relations throughout our organization.

## Party Building-Led Development

### Integrating Party Leadership into Corporate Governance

Huadian Power International steadfastly adheres to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era as its guiding principle. The Company diligently implements the spirit of the 20th National Congress of the Communist Party of China (CPC), the Second and Third Plenary Sessions of the 20th CPC Central Committee, and the Third Plenary Session of the Central Commission for Discipline Inspection. Focusing on annual corporate objectives, the Company thoroughly implement the “Two Consistencies” principle, leveraging the Party’s leadership to provide strategic direction, oversee operations, and ensure effective implementation. Furthermore, the Company has revised and enhanced its “Three Majors and One Large” decision-making system, including implementation regulations, a decision-making authority and responsibility matrix, and related procedural rules. These improvements have further delineated the roles and responsibilities among the Party Committee, Board of Directors, and executive management, fostering collective, scientific, democratic, and legally compliant decision-making on major corporate matters.


### Learning and Education Initiatives

Huadian Power International conducts comprehensive Party discipline learning and education programs, emphasizing deployment, implementation, and focused study. The Company integrates learning objectives and key focus areas throughout its thematic education process. The Company promote the development of “Four In-Place” initiatives, guiding Party members and cadres to achieve tangible results in learning, mastering, safeguarding, and implementing Party discipline. Through various formats, including specialized study sessions, the Company organizes Party secretaries and corporate leaders to deliver discipline-focused lectures to their respective Party branches. This approach enhances the political, ideological, and behavioral awareness of Party members and cadres in learning, understanding, clarifying, and observing discipline. The effectiveness of these learning, education, and work style improvement efforts ensures the completion of annual tasks and accurate comprehension of the spirit of the Regulations.

Case

**Huadian Power International Party Group Launches Party Discipline Learning and Education Initiative**

Huadian Power International Party Group studied and implemented the spirit of General Secretary Xi Jinping's important speech and instructions on party discipline learning and education, conveyed the requirements of the Central Party Building Leading Group meeting and related documents, implemented the deployment of the SASAC Party Committee, and combined with the actual start of the company's system of party discipline learning and education to ensure high standards and high quality.




Huadian Power International Party Group held a special meeting

Case

**Company Party Committee Theory Learning Center Group Holds Third Quarter Special Seminar**

The Huadian Power International Party Committee Theory Learning Center Group conducted a special study and discussion seminar focusing on two key themes: “In-depth Study and Understanding of the Spirit of the Third Plenary Session of the 20th CPC Central Committee” and “Comprehensive Review of the Company’s Party Discipline Learning and Education, Deployment and Promotion of Normalized and Long-term Construction” .



Company Party Committee Theory Learning Center Group holds third quarter special seminar

## Rigorous Party Governance

Huadian Power International has intensified its comprehensive and stringent party governance, steadfastly advancing the cultivation of an incorruptible party culture that deters, prevents, and discourages malfeasance. During the reporting period, significant progress was made in anti-corruption efforts.

### Enhancing Political Oversight

- Implemented three-tier evaluations on policy execution, with **256** cumulative follow-ups and effectiveness assessments.
- Studied and disseminated **110** key speeches and directives from General Secretary Xi Jinping, ensuring the thorough implementation of **267** associated measures.
- Conducted end-to-end supervision on **18** critical issues identified by the CPC Central Committee, including comprehensive reform deepening, energy security, and operational safety.

### Rectifying “Four Undesirable Work Styles” and Cultivating Best Practices

- Established an “education-inspection-reporting” supervisory framework, conducting targeted audits on official vehicle usage and business entertainment expenses.
- Conducted research on the management of personal events (weddings, funerals, celebrations) and implemented integrity pledge forms.
- Thoroughly executed “retrospective” assessments on work style improvements, fostering enduring mechanisms and exemplary personal work habits.

### Reinforcing Ongoing Supervision

- Bolstered oversight of the “Three Majors and One Large” decision-making system, implementing a Meeting Supervision Ledger to evaluate responsibility fulfillment and power exercise using a “one meeting, one form” approach.
- Orchestrated three-tier integrity dialogues, i.e. Party secretaries with all staff, leadership team members with department heads, and Party branch secretaries with branch members.
- Enhanced supervision of personnel selection and appointment, establishing a sustainable mechanism for “substantive process oversight, integrity feedback, updating integrity records, and pre-appointment ethics briefings”.
- Created the Company’s Annual Key Supervision Items List for Disciplinary Committee Members, concentrating on intra-Party political conduct and internal compliance management.

### Promoting “Three Non-Corruptions” Principle

- Devised the Company’s Implementation Measures for Maintaining a Strict Tone and Continuously Enhancing Party Conduct, Discipline Enforcement, and Anti-Corruption, detailing 28 measures across 5 domains and ensuring their execution.
- Advanced the practical application of the Company’s Integrity Risk Prevention and Control Manual, embedding anti-corruption safeguards throughout the business management process.

### Case

#### Huadian Power International Convenes 2024 Party Conduct, Clean Governance, and Anti-Corruption Work Conference and Warning Education Meeting

Huadian Power International held its 2024 Party Conduct, Clean Governance, and Anti-Corruption Work Conference and Warning Education Meeting. The event focused on studying and implementing the spirit of the Third Plenary Session of the 20th Central Commission for Discipline Inspection, comprehensively reviewing the Company’s 2023 initiatives, and outlining strategies for 2024.



2024 Party Conduct, Clean Governance, and Anti-Corruption Work Conference and Warning Education Meeting

Enhancing Political Oversight

Reinforcing Ongoing Supervision

Rectifying “Four Undesirable Work Styles” and Cultivating Best Practices

Promoting “Three Non-Corruptions” Principle

### Case

#### Huadian Power International Launches Cautionary Education

To reinforce Party discipline education and intensify the “Clean Huadian, I Take the Lead” anti-corruption campaign, Huadian Power International organized an educational visit to the Beijing Juvenile Correctional Facility.



Huadian Power international organization staff went to Beijing Juvenile Correctional center to carry out cautionary education

## Party-Building Initiatives

Huadian Power International continues to strengthen its organizational structure. During the reporting period, the Company completed leadership elections for 6 Party branches and implemented the “Four Forces and Four Promotions” Party building project. Two Party member vanguard team leader initiatives were established, and 9 Party member task forces were formed, robustly implementing Party-building empowerment actions across industrial and innovation chains. The Company reinforced Party leadership over mass organizations, fully leveraging the roles of labor unions and the Communist Youth League. By persistently addressing the “Four Undesirable Work Styles” and fostering best practices, a culture of “innovative advancement and pursuit of excellence” has become more deeply ingrained within the organization.

# Corporate Governance System

Huadian Power International adheres strictly to the regulatory requirements of both the Shanghai and Hong Kong stock exchanges, as well as its own Articles of Association. The Company ensures that decision-making and supervisory bodies—including the General Meeting of Shareholders, Board of Directors, and Board of Supervisors—operate efficiently in compliance with regulations. This approach guarantees the Company’s operational compliance and effectiveness while continuously optimizing its governance structure and enhancing governance efficiency.

## Three Corporate Bodies and Management

### General Meeting of Shareholders

The General Meeting of Shareholders of Huadian Power International exercises its powers in accordance with laws and regulations. The Company ensures equitable treatment of all shareholders and robustly protects their legitimate rights and interests through various measures. These include facilitating online voting, implementing cumulative voting, separate vote counting for minority shareholders, and requiring related shareholders to abstain from voting on relevant matters.

Number of General Meeting of Shareholders held  
**5** shareholders' meetings

Directors' attendance rate at General Meeting of Shareholders  
**100%**

### Board of Directors

As the Company’s core decision-making body, the Board of Directors strictly adheres to legal procedures and the authority granted by the Company’s Articles of Association. It makes prudent decisions on significant Company matters, fully exercising its key role in “setting strategies, making decisions, and mitigating risks.” Currently, the Board of Directors comprises 12 members, including 4 independent directors. Directors serve a three-year term and are eligible for re-election, while independent directors may not serve for more than six consecutive years.

The Company’s directors possess diverse professional backgrounds, encompassing key areas such as management, law, accounting, and power industry expertise. This diversity enables comprehensive, scientific, and effective oversight across various sectors, providing robust professional support for major company decisions and significantly enhancing the Board’s decision-making prowess and foresight.



To establish and maintain a robust corporate governance system, the Board has established four specialized committees: the Audit Committee, Remuneration and Appraisal Committee, Nomination Committee, and Strategic Committee. Each committee has clearly defined responsibilities and works collaboratively while fulfilling its respective duties.



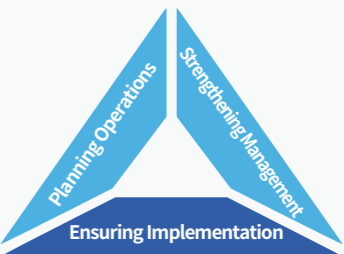
### Board of Supervisors

The Board of Supervisors serves as the Company’s supervisory body, overseeing the work and implementation of the Board of Directors and executive management. As of the end of 2024, the Board of Supervisors consists of 3 members, including 1 employee supervisor. The Board of Supervisors is accountable to the General Meeting of Shareholders, monitoring the legal compliance of directors and senior management in performing their duties, and safeguarding the legitimate interests of the Company and its shareholders.

Supervisors serve a three-year term and are eligible for re-election. Non-employee supervisors are elected and replaced by the General Meeting of Shareholders, while employee supervisors are elected and dismissed through democratic processes such as workers’ congresses or general employee assemblies. The election of supervisors employs a cumulative voting system.

### Executive Management

The Executive Management team serves as the Company’s operational arm, responsible for implementing the Board of Directors’ decisions on management matters and overseeing daily operations. They fulfill a crucial role in “planning operations, ensuring implementation, and strengthening management.”



### Remuneration System for Directors, Supervisors, and Senior Management

Huadian Power International places significant emphasis on the remuneration and performance evaluation of its senior management. The Remuneration and Appraisal Committee comprehensively considers various factors to research and review remuneration policies and evaluation standards for directors, supervisors, and senior management. It also supervises their responsibilities and performance. The Company actively promotes a performance-linked remuneration approach to ensure that the remuneration system and evaluation mechanism align closely with strategic objectives, thereby enhancing the motivation of senior management.

## Investor Relations Management

### Investor Relations Management Structure

Huadian Power International strictly adheres to the requirements set forth in the Company Law, Securities Law, and Work Guidelines for the Investor Relations Management of Listed Companies. The Company has implemented its own Investor Relations Management Measures, which designate the Board Secretary as the primary individual responsible for investor relations management. The Securities and Legal Affairs Department is tasked with handling day-to-day investor relations matters.

We ensure that the latest developments and significant decisions are communicated to investors in a timely and effective manner. This approach enhances investors' understanding of our operations and effectively standardizes our investor relations management practices.

### Investor Communication

To enhance the quality of information disclosure and improve communication efficiency with investors, the Company has established a mechanism for conveying significant events to its stakeholders. We utilize various platforms, including our official website, the SSE website, SSE e-interaction platform, and new media channels. Through these avenues, we have developed diverse communication channels such as shareholder meetings, investor briefings, and investor research visits. This comprehensive approach effectively combines online and offline information exchange between the Company and investors, thereby safeguarding investor rights.

#### During the Reporting Period



### Information Disclosure Mechanism

The Company rigorously adheres to relevant laws and regulations, as well as its own information disclosure management system. This approach reinforces the standardization of information disclosure practices at the institutional level, ensuring that all disclosed information is truthful, comprehensive, and timely. As a listed company, Huadian Power International diligently fulfills its information disclosure responsibilities. We actively organize in-depth studies of the new Listing Rules and self-regulatory guidelines issued by the SSE, swiftly adapting to new disclosure standards and regularly disseminating relevant information.

#### During the reporting period

The company has received the highest **A-level** evaluation result in the information disclosure work of listed companies in the Shanghai Stock Exchange for ten consecutive years.

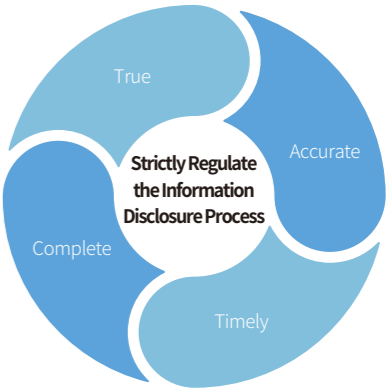
The number of periodic reports disclosed by the company is **16**

The number of temporary announcements is **386**

### Protection of Shareholder Rights

Huadian Power International continually refines various aspects of its investor relations management. The Company consistently upholds high standards of information disclosure, ensuring that all disclosed information is true, accurate, complete, and timely. It strictly regulates the information disclosure process and continuously enhances the quality of its disclosures. We have established a comprehensive investor relations management system, fostering communication with investors and promoting investor protection awareness through diverse platforms. These efforts aim to improve investors' risk awareness and self-protection capabilities.

The Company actively promotes and revises its independent director system, fully leveraging the supervisory and decision-making roles of independent directors. Additionally, it maintains a stable and appropriate profit distribution policy to effectively safeguard shareholders' reasonable returns.



## Creditor Rights

### Credit Status

During the Reporting Period, the Company maintained a clean credit record with no adverse reports in terms of loans.



### Debt Default Situation

Throughout the Reporting Period, the Company did not experience any instances of debt default.

Internal Control and Compliance Management

Internal Control

Huadian Power International strictly complies with the Basic Standards for Enterprise Internal Control and the Self-Regulatory Guidelines for Listed Companies, along with other pertinent regulatory requirements. The Company has implemented an Internal Control Evaluation System and corresponding Implementation Measures. Additionally, it has established an internal supervision system that operates independently from various business lines and functional departments, thereby enhancing operational standardization and resilience. To ensure the efficacy of this supervisory mechanism, the Company have also issued detailed implementation rules for internal control evaluation, providing a robust institutional foundation for internal oversight.

The Company's Supervision and Evaluation Department operates under the direct authority of the Audit Committee. It exercises its supervisory powers independently in accordance with the law, conducting thorough and in-depth inspections of the Company's internal control system establishment and implementation. The department also monitors and tracks the entire rectification process when issues are identified.

Internal Control Structure

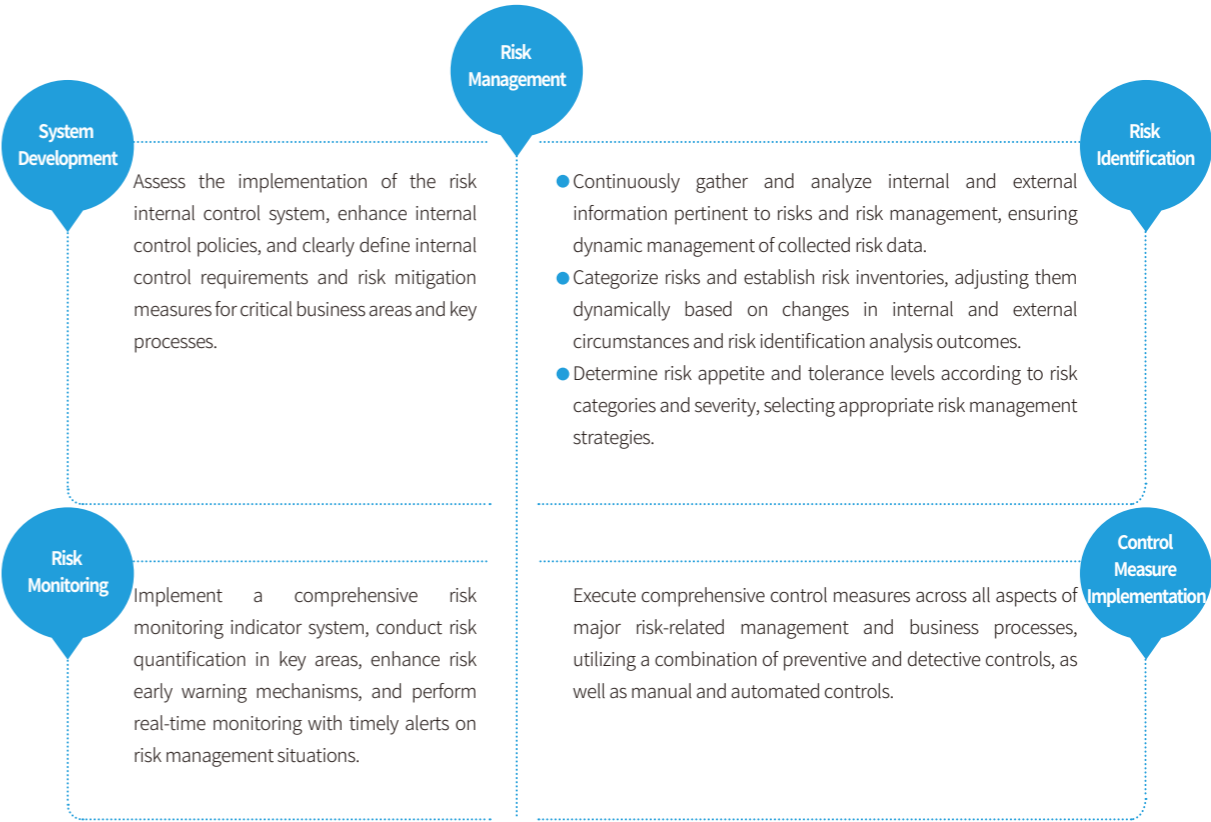


Huadian Power International places paramount importance on the development of its internal control system. Guided by risk management principles and focused on compliance, the Company has compiled a series of institutional documents, including the Internal Control Compliance Risk Management Manual and the Risk Assessment and Internal Control Compliance Evaluation Manual. We regularly assess the effectiveness and rationality of our internal control system, continuously refining it based on evolving management requirements and identified areas for improvement. Concurrently, we have strengthened our internal audit mechanism by establishing a dedicated audit team. This team monitors the compliance and effectiveness of company operations, significantly enhancing the standardization of the Company's internal control practices.

Risk Management

Huadian Power International's Board of Directors provides comprehensive leadership and supervision of the Company's risk management, ensuring its effectiveness. The Audit Committee, in turn, monitors and examines the efficacy of key control systems. Various business departments associated with risk serve as the first line of defense in risk identification, pinpointing key risks, devising corresponding response strategies, and re-evaluating residual risks.

The Company has established and regularly reviews a robust risk management mechanism tailored to its specific business scope and operational conditions to ensure ongoing effectiveness.



To further bolster risk management, the Company has implemented a comprehensive and systematic risk assessment mechanism. We conduct at least one periodic risk assessment annually, strictly adhering to predetermined risk assessment standards while fully considering the Company's risk appetite. Risks are thoroughly analyzed from multiple dimensions and scientifically categorized into four levels: major risks, significant risks, moderate risks, and low risks. A detailed and accurate annual risk assessment report is produced, providing a solid foundation for the Company's risk management decisions.



The Company organizes and conducts specialized risk assessments in accordance with relevant requirements and practical needs. For major business matters such as development strategy planning, asset acquisitions, and restructuring, we rigorously conduct specialized risk assessments and legal compliance reviews prior to decision-making. Risk assessment Reports and legal compliance review reports are mandatory supporting materials for major decisions. During the Reporting Period, the Company conducted risk identification and assessment work for 2024, formulating a 2024 risk management inventory, identifying the top ten operational risks, and developing corresponding response plans. The legality review rate for economic contracts, systems, and major decisions reached 100%.

The rate of legal review for the three aspects of economic contracts, systems, and major decisions reaches

100%

## Compliance Management

Huadian Power International consistently prioritizes compliance operations as a strategic imperative. The Company has established a comprehensive compliance management system, encompassing policies such as the Internal Control Compliance Risk Management Measures (For Trial Implementation), Detailed Rules for Implementation of Internal Fund Control, and Measures for Legality Review of Significant Decision-Making Matters. These policies thoroughly standardize the processes and criteria for compliance risk management, mitigating compliance risks at their source and ensuring our adherence to legal and regulatory requirements.

The Company has implemented a Chief Compliance Officer system and established an Internal Control Compliance Risk Management Committee and Office. The committee is chaired by the Company's chief executive, with vice-chairs drawn from the leadership team, and committee members comprising heads of various departments. The Enterprise Management and Legal Affairs Department (Audit Department) functions as the compliance management unit, staffed with dedicated compliance management professionals, substantially enhancing the Company's risk prevention capabilities and decision-making support.

### During the Reporting Period

The company held **38** meetings of the Internal Control, Compliance and Risk Management Committee

## Compliance Management Structure

### Party Committee

Organize, lead, and establish a comprehensive internal control compliance risk management system across all business areas and departments.

### Board of Directors

Serve as the decision-making authority for internal control compliance risk management, addressing significant issues, effectively identifying, assessing, preventing, and mitigating major risks, and conducting overall monitoring and evaluation.

### Audit Committee

Oversee and guide internal control compliance risk management efforts, reporting directly to the Board of Directors.

### Chief Executive

Act as the primary responsible party for internal control compliance risk management, tasked with establishing and refining the internal control compliance risk management system.

### Supervising Executives

Spearhead the development, implementation, and supervision of integrated internal control compliance risk management within their respective business domains.

## Compliance Management Initiatives

### Incorporating Compliance Risk Management into Daily Operations

- Establish risk indicator thresholds and conduct monthly monitoring
- Develop strategies to mitigate significant risks in listed companies, enhance key documentation requirements for evaluations, and create a foundation for identifying major risks

### Integrating Compliance Risk Management into Decision-Making Processes

- Implement a primary legal compliance review system by business units for major decisions, ensuring 100% legal scrutiny of significant decisions involving legal considerations
- Conduct internal audits on key listing regulatory matters and engage external legal counsel for critical reviews to ensure major decisions comply with applicable laws and regulations

### Embedding Compliance Risk Management in Contract Management Processes

- Revise the headquarters' Contract Management Measures to clearly delineate the primary responsibilities of contract management departments and business units, and establish a joint review mechanism for significant and high-risk contracts
- Assign responsibility to business units for contract risk identification, formulation of specific terms, and comprehensive contract management throughout the entire lifecycle

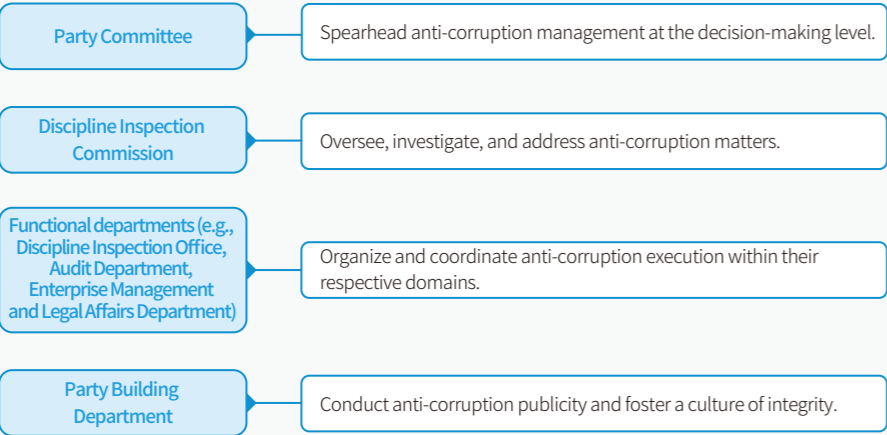
# Upholding Business Ethics

## Integrity Building

Huadian Power International strictly adheres to relevant laws and regulations concerning the prevention of bribery, extortion, fraud, and money laundering. The Company ensures that its business operations are conducted soundly within the legal framework. By actively implementing the Integrity Risk Prevention and Control Manual, we embed the principle of incorruptibility throughout our entire business management process, thereby establishing a comprehensive and robust integrity risk prevention and control system.

## Management Structure

To further advance Party conduct, clean governance, and anti-corruption efforts, the Company has developed and continually refines various internal policies. These include the Guidelines for the Integrity Conversation Process, Measures for the Implementation of the Responsibility System for Improving Party Conduct and Promoting Integrity, Working Rules of the Commission for Discipline Inspection Commission (for Trial Implementation), and List of Responsibilities for Improving Party Conduct, Promoting Integrity and Fighting Corruption in Functional Departments and Offices. The Company has established a three-tier anti-corruption management structure, encompassing leadership, executive, and support levels, to reinforce political supervision.



Management Initiatives

The Company focuses on simultaneously promoting the “Three Non-Corruptions” principle (not wanting, not daring, and not being able to be corrupt), continuously deepening the “Clean Huadian” initiative through the following measures.

Formulated the Implementation Measures for Maintaining a Strict Tone and Continuously Enhancing Party Conduct, Discipline Enforcement, and Anti-Corruption, detailing 28 measures across 5 domains and ensuring their execution.

Implement Measures

Enhanced coordination among various supervisory mechanisms, facilitating information sharing between relevant departments to proactively address potential issues.

Supervision and Coordination

Organized a new round of institutional optimization, adjusting the “Three Horizontal and Three Vertical” institutional map, and promoting the implementation of the Company’s 2024 Institutional Supervision and Inspection Plan.

Optimize Actions

Focused on key aspects such as bidding and tendering, price inquiries and comparisons, and contract signing by continuously optimizing regulatory indicators, improving pre-warning, in-process monitoring, and post-event evaluation mechanisms, and signing Integrity in Business Agreements with suppliers to ensure compliant, transparent, fair, and efficient procurement processes.

Improve the Working Mechanism

Conducted regular “Discipline Lecture” activities and promoted the creation of “Three Clean” enterprises. Established the Ten Integrity Cultures monthly publication and regularly carried out integrity education and conversations for employees. Achieved comprehensive coverage of education and training through concentrated warning sessions, interviews, reminders, and case study notifications.

Full Coverage of Education and Training

During the Reporting Period

The company organized anti-commercial bribery and anti-corruption training, and the training duration was

188 hours

The proportion of the total number of people who received anti-commercial bribery and anti-corruption training is

100%

The company or its employees are involved in

0

cases of embezzlement litigation that have been adjudicated by the court

Case

The Zhejiang Branch of Huadian International Power Implements Comprehensive Measures to Enhance Integrity Building



The Warning Education Activity of Zhejiang Branch of Huadian International Power



Staff of the Zhejiang Branch of Huadian International Power Visited the Exhibition of Integrity-themed Calligraphy and Paintings.

Case

Anhui Huadian Wuhu Power Co., Ltd. Maintains Ongoing Integrity Education for Staff and Management

Anhui Huadian Wuhu Power Co., Ltd. conducted a month-long anti-corruption and integrity promotion campaign. The program included daily lessons on party discipline, promotion of progressive corporate culture and integrity concepts, and efforts to instill ethical values into the Company’s core ethos.



Integrity education workshop for staff and management at Anhui Huadian Wuhu Power Co., Ltd.

Whistleblower Protection Policy

The Company continuously refines its whistleblower protection mechanisms to effectively safeguard the legal rights and interests of informants. Multiple Reporting channels have been established, actively encouraging all stakeholders to promptly provide feedback, lodge complaints, and report any illegal or non-compliant behavior to the Company. This approach ensures a fair and efficient reporting process.

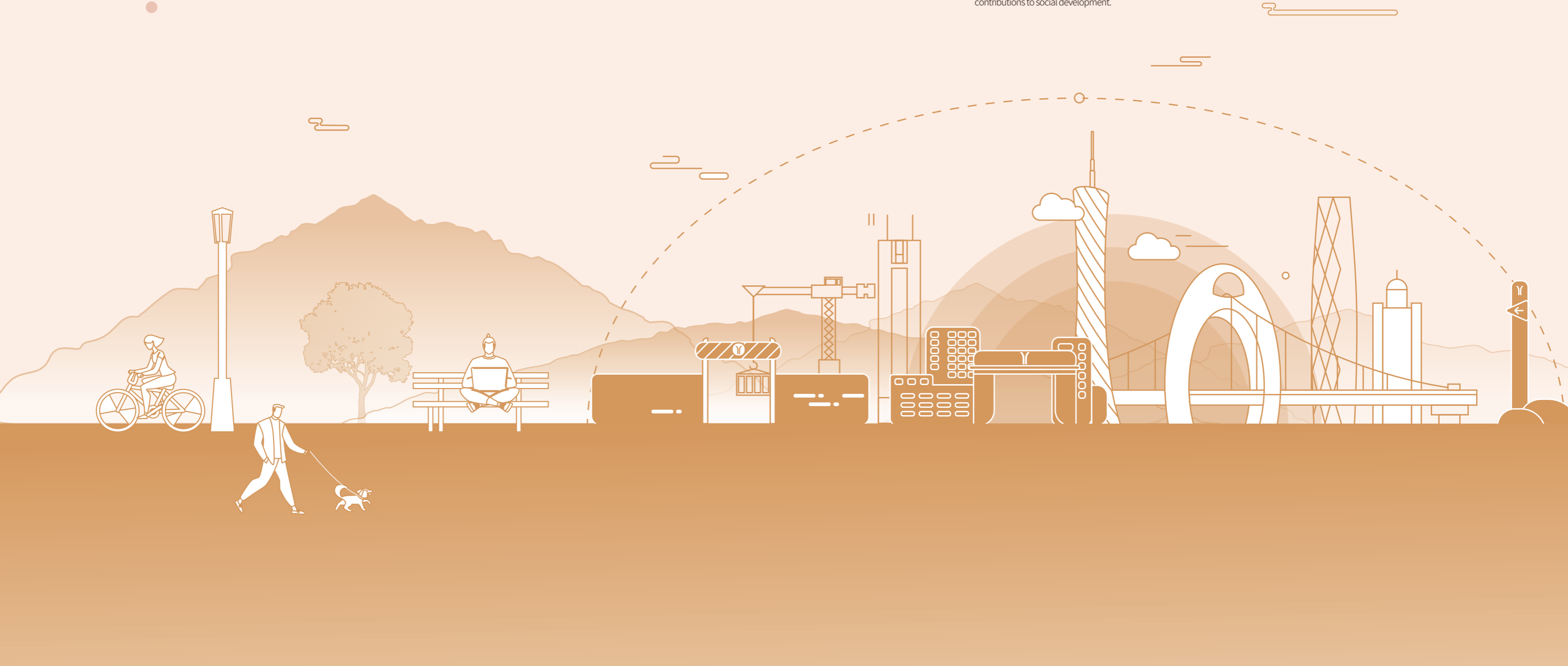
Anti-Unfair Competition Practices

Huadian Power International strictly adheres to a comprehensive set of relevant laws and regulations, including the Anti-Monopoly Law and the Anti-Unfair Competition Law. The Company prioritizes compliance management in anti-monopoly and anti-unfair competition practices, having established and continually improving its anti-unfair competition management system. During the Reporting Period, the Company did not face any litigation or incur significant administrative penalties related to unfair competition practices.



# Progressing Together Building a Better Future

Huadian Power International has always upheld a high sense of responsibility and mission, and comprehensively fulfilled the corporate social responsibilities. Internally, the company adheres to a people-oriented approach, accelerates digital transformation, builds an efficient supply chain management system, and continuously enhances the core competitiveness. Externally, the company joins hands with multiple parties, spreading the "warmth of Huadian" to all parts of the country. The company demonstrates the responsibility of a central state-owned enterprise with practical actions and makes positive contributions to social development.

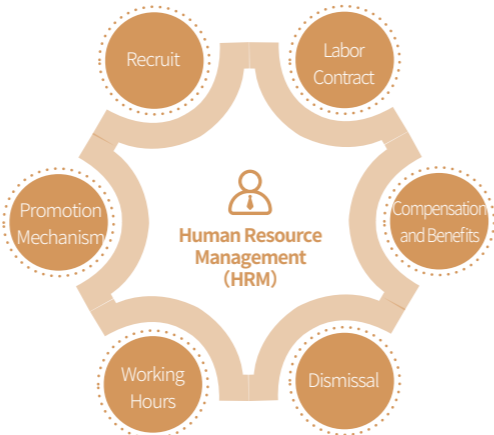


Safeguarding Employee Rights

Huadian Power International consistently adheres to a people-centric approach, prioritizing the protection of employees’ legal rights and well-being. The Company is committed to fostering a harmonious and inclusive work environment. Concurrently, it thoroughly implements a talent strategy suited for the new era, continuously optimizing talent development mechanisms, and promoting the cultivation of a knowledge-based, skilled, and innovative workforce. This approach injects sustained momentum into rapid corporate development.

Employee Rights and Interests

The Company rigorously complies with relevant laws and regulations, including the Labor Law of the People’s Republic of China, Labor Contract Law of the People’s Republic of China, Trade Union Law of the People’s Republic of China, Civil Code of the People’s Republic of China, and Law on the Protection of Minors of the People’s Republic of China. These laws cover various aspects such as compensation, dismissal, recruitment, promotion, working hours, holidays, equal opportunities, diversity, anti-discrimination, benefits, and the prevention of child labor and forced labor. Based on these legal frameworks, we have formulated and implemented comprehensive human resource management systems encompassing employee recruitment, labor contracts, promotion mechanisms, compensation and benefits, working hours, and dismissal procedures.



Employee Employment

Employee Recruitment

Huadian Power International views talent as the inexhaustible driver for enterprise development and considers its talent strategy a crucial component of its long-term strategic planning. The Company recruits talent through diverse channels, including campus and social recruitment, actively participating in university career fairs and job exhibitions to provide talented individuals with broad platforms. Simultaneously, the Company adhere to the principles of openness, fairness, and justice, ensuring transparency and equity in the recruitment process. The Company are committed to providing equal opportunities for all types of outstanding talent while fulfilling our corporate social responsibilities.

Rigorously verify applicant information to ensure no employment of minors under sixteen years of age. If child labor is discovered, the Company will immediately address the issue in accordance with relevant laws and regulations, conduct thorough investigations, and implement remedial measures to prevent recurrence.

Adhere to the principle of equal opportunity, promote diverse employment policies, and do not discriminate against any employee based on factors such as race, nationality, skin color, or gender.

Sign labor contracts with each employee, clearly stipulating specific terms regarding compensation and benefits, position, dismissal, and termination, thereby ensuring the protection of employees’ legal rights.

Fully contribute to various insurance schemes and housing funds, ensuring a 100% social insurance coverage rate for employees.

100%

Labor Dispute Management

During the Reporting Period

The Company did not experience any violations of the aforementioned labor and employment-related laws and regulations.

Employee Satisfaction

Huadian Power International highly values employee experience and the maintenance of harmonious and stable labor relations. The Company implements multiple measures to protect employee rights and enhance job satisfaction. Annually, it conducts regular employee satisfaction surveys, actively soliciting employees’ suggestions and feedback to ensure timely response and improvement.

During the Reporting Period

The Company’s employee satisfaction rate reached

100%

The number of any labor dispute incidents that occurred is

0



Compensation and Benefits

Distribution According to Work + Equal Pay for Equal Work

Huadian Power International adheres to principles of merit-based distribution and equal pay for equal work in its compensation practices. The Company has established a Remuneration and Appraisal Committee to formulate and review compensation policies and plans for directors and senior management. Balancing efficiency and fairness, the Company implements point-based salary systems and annual salary schemes for leadership positions, considering factors such as industry benchmarks and management responsibilities. The Company prioritizes quality and efficiency while maintaining equity, ensuring that employees receive salary adjustments or promotions based on their performance.

In compliance with national laws and regulations, as well as provisions approved by the general employee assemblies, the Company ensures employees’ participation in comprehensive social insurance programs. These include pension, unemployment, medical, work-related injury, and maternity insurance, with timely payment of all contributions. To foster a vibrant and cohesive corporate culture, the Company is dedicated to promoting employees’ physical and mental well-being. Annually, the Company organizes diverse cultural and sporting events, including badminton tournaments, basketball games, and sports meets, to cater to employees’ spiritual and cultural needs.

Case Chongqing Company’s Fengjie Plant Conducts Employee-Themed Activities

In 2024, Chongqing Company’s Fengjie Plant organized a series of themed activities under the banner “Practicing Progressive Culture, Promoting the Spirit of Struggle, and Celebrating the 75th Anniversary of the Founding of the People’s Republic of China.” These events included outreach to employees in need, mountain climbing expeditions, walking events, and book-sharing sessions. These initiatives served to enrich employees’ leisure and cultural lives while showcasing their positive and resilient spirit.



Chongqing Company’s Fengjie Plant conducting visits to employees in need

Employee Development

Development Pathways

The company embraces the principle of talent-driven enterprise development, reinforcing systematic talent team building. The Company implements democratic, open, competitive, and merit-based principles, offering employees clear promotion paths and development platforms. Through innovative cultivation models such as “talent + platform,” “talent + project,” and “talent + task,” we aim to leverage the catalytic role of talent. Employees are encouraged to gain hands-on experience in key core technology breakthroughs and major projects, thereby enhancing their comprehensive capabilities. The Company promotes the use of performance management and position adjustment systems to provide employees with diverse growth opportunities, ensuring their continuous progress in a dynamic environment.

Position Level Structure

The Company has established a scientific and standardized position level system through the Headquarters Position Level Management Measures (For Trial Implementation). This system encompasses leadership position sequences and general management position sequences, ensuring transparent rules for position level setting, adjustment, and promotion. We manage position levels based on multiple factors, including employees’ work abilities, performance appraisals, and years of service, providing clear advancement pathways. Through rigorous position level management, we ensure reasonable talent mobility and incentivization, effectively fostering a positive synergy between company development and employee growth.

Employee Training

The Company vigorously implements its “Talent-Driven Enterprise” strategy, having developed a comprehensive talent development and training framework with various initiatives. This approach aims to stimulate employees’ enthusiasm, initiative, and creativity, thereby providing robust talent support for the Company’s growth. While adhering to the overarching talent strategy, each subsidiary tailors its training management system to specific job requirements, talent pipeline development, and employee career trajectories. These programs offer broad-based, targeted multi-tiered training, continuously enhancing employees’ professional competencies and knowledge base. Furthermore, the Company formulates annual talent development and training plans, supporting subsidiaries in conducting employee training to holistically improve staff members’ business acumen and managerial capabilities.

Employee Care

The Company consistently prioritizes employee well-being, adhering to the philosophy of “Caring for Employees, Growing Together.” It is dedicated to cultivating a harmonious and supportive work environment. Through a diverse array of employee care initiatives, we focus on each individual’s physical and mental health and quality of life, offering comprehensive support to help employees navigate challenges in both their professional and personal spheres. The Company proactively responds to employee needs, reinforcing its commitment through tangible actions. This approach not only enhances employees’ sense of belonging and overall satisfaction but also fosters a greater sense of accomplishment and fulfillment in their roles.

Case

Huadian Power International’s Hebei Company Enhances Institutional Training Through Competitive Learning

The Company’s Hebei company orchestrated a four-month regulatory knowledge competition, encompassing 11 professional domains and attracting over 470 participants. The competition utilized a cloud-based question repository containing more than 1,500 items, comprehensively covering over 100 company policies and procedures. This initiative not only deepened participants’ understanding of standard regulations but also improved their adherence to management practices in daily operations, fostering a culture of compliance and proper governance.



Covers **11** professional fields



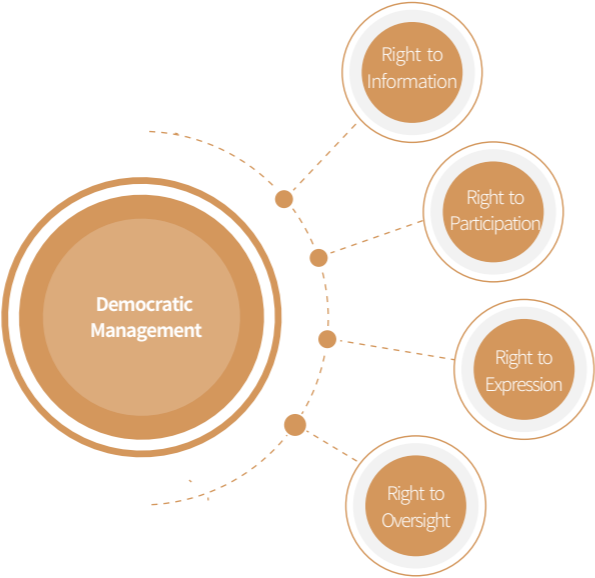
Attracted more than **470** players



Cover more than **100** items of the company's systems

Democratic Management

The Company is committed to fostering an open and transparent management environment, actively advancing democratic management mechanisms to ensure employees’ rights to information, participation, expression, and oversight are fully safeguarded. The workers’ congress serves as a pivotal platform for democratic management, responsible for reviewing key issues pertaining to major corporate decisions and employees’ vital interests, as well as deliberating on employee proposals and collective agreements. Additionally, we have instituted a system for the election of employee supervisors, ensuring staff participation and representation in company decision-making processes.



Occupational Health and Safety

Huadian Power International has made safe production its foremost operational objective, adhering to a rigorous and efficient corporate ethos while continuously enhancing its safety production management. The Company persistently refines its safety management and supervision systems, bolstering its capacity to control safety risks. Particular emphasis is placed on the comprehensive management of occupational health and safety, implementing various measures to safeguard employees’ physical and mental well-being and ensure their safety.

Occupational Health

The Company strictly complies with national laws and regulations, including the 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, as well as relevant industry standards and procedures. In accordance with these legal requirements and standards, we provide employees with a safe and healthy work environment, implementing measures to protect them from occupational hazards. Simultaneously, the Company and its subsidiaries and operational units have developed and implemented occupational health management standards and occupational hygiene supervision systems to ensure effective protection of employees’ occupational health.



Workplace Hazard Detection:

Regular testing and assessment of workplace environmental hazards are conducted, primarily focusing on preventing dust hazards, electromagnetic radiation hazards, noise reduction, and toxic substance injuries. On-site occupational hazard monitoring is carried out, with notice boards and information cards placed at the entrances of relevant areas, and occupational disease hazard warning signs prominently displayed in pertinent locations. This approach ensures timely identification and elimination of potentially harmful factors that may lead to occupational diseases. Through scientific monitoring methods, the work environment is continuously improved.

Occupational Health Examinations:

Regular occupational health check-ups are provided to employees, facilitating early detection of health issues, prompt intervention, and reduction of occupational disease risks.

Distribution of Protective Equipment:

Relevant personnel are supplied with occupational protective equipment as needed, including work clothes, insulated shoes, protective eyewear, earplugs, dust masks, and anti-toxic protective gear. The use and quality of this protective equipment are regularly inspected to ensure employees are adequately protected at work.

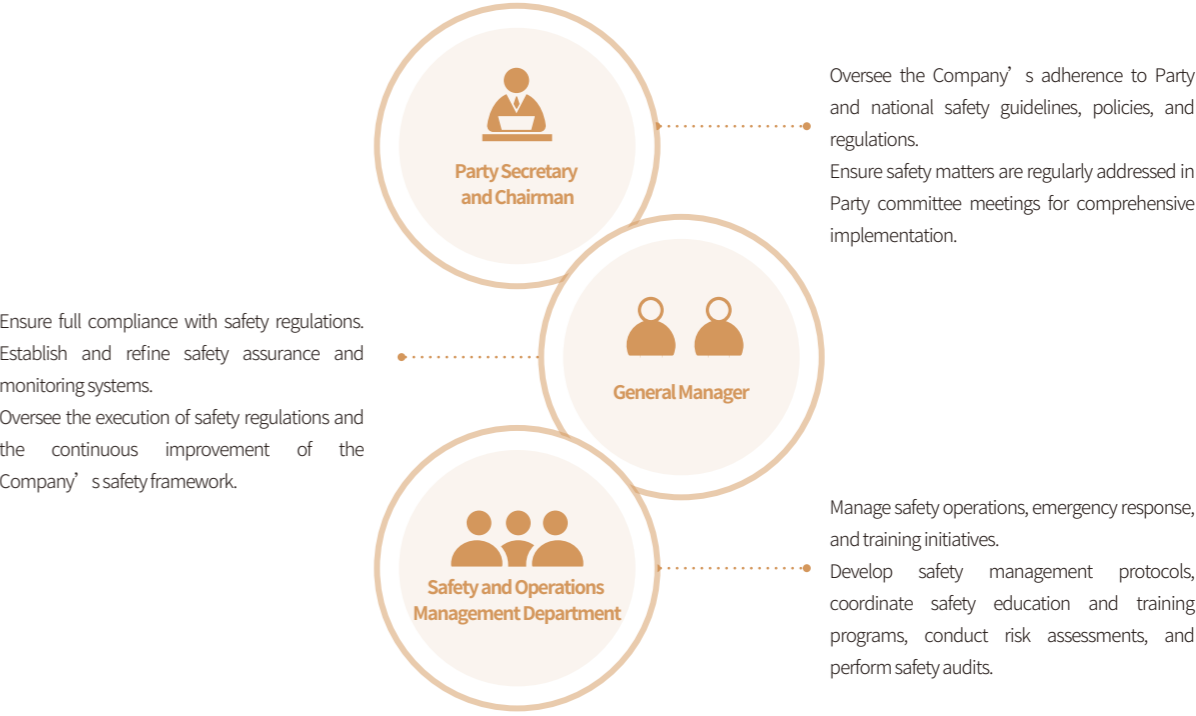
Safety Production

Governance

The Company rigorously adheres to the Work Safety Law of the People’s Republic of China and other pertinent national and industry safety regulations and standards. Both the Company and its subsidiaries have implemented comprehensive safety management systems. These systems encompass various critical aspects, including safety responsibilities, tiered risk management and hazard identification, major hazard source safety protocols, hazardous chemicals handling, construction safety guidelines, contractor/contractee safety regulations, flood prevention measures, and traffic safety management.



A robust safety management framework has been established throughout the organization, with dedicated workplace safety committees at the headquarters, subsidiaries, and operational units. These committees diligently implement national safety policies, guidelines, laws, and regulations, as well as safety directives from senior management. Each operational unit has developed a three-tiered safety supervision network comprising “plant-workshop-team” levels. This system ensures that safety responsibilities are cascaded effectively throughout the organization, facilitates the thorough implementation of safety management protocols, enables in-depth safety risk control and hazard mitigation, and continuously reinforces the foundation of safe operations.



Strategy

The Company consistently prioritizes occupational health and safety, striving to establish a comprehensive and effective safety management system. This approach ensures the rigorous implementation of safety measures throughout all operational processes, facilitates prompt identification and mitigation of safety hazards, and guarantees the execution of all necessary safety technical measures.

Proactive safety training programs are regularly conducted, covering a wide range of topics including relevant laws and regulations, internal safety policies, safety technologies, and current safety trends in the industry. These programs also incorporate case studies of notable safety incidents. Management personnel and front-line employees at operational units participate in mandatory, periodic safety skills training. Only those who successfully complete certification are authorized to assume their roles.



The Company and its subsidiaries and operational units have established and improved emergency management systems, developing and refining emergency response plans, and regularly organizing drills to enhance emergency response capabilities. Emergency management systems are formulated, clarifying responsibilities of all parties, and strengthening training and drills to ensure safe production and stable supply. Each operational unit conducts drills for key emergencies annually, comprehensive emergency plan drills every two years, and special inspections at crucial times such as winter and holidays.

Case “Four Ones” Emergency Management at Huadian Power International’s Zouxian Plant

Huadian Power International’s Zouxian Plant innovatively implemented the “Four Ones” emergency management approach to comprehensively enhance emergency capabilities. This included establishing a cloud inspection and control platform, building an emergency material support network, formulating risk prevention and control maps, and training high-level emergency response teams. Through collaboration with the Red Cross Society of Zoucheng, first aid skills training was conducted, with 973 participants and 793 obtaining qualifications. Twenty-four emergency drills were carried out to improve emergency response capabilities. Fifty registered safety engineers within the plant received awards, and 21 employees passed intermediate firefighting examinations.

Implement Training  
**973**  
people participated  
in the training

**793**  
people obtained  
the certificates

Carry out  
**24**  
drills

**50**  
safety engineers have  
won awards

**21**  
people have passed the Intermediate  
Fire Protection Examination

Case

Anhui Huadian Wuhu Power Co., Ltd. Implements Advanced Visual 3D Digital Model Training System

Anhui Huadian Wuhu Power Co., Ltd. has developed an innovative virtual maintenance training system leveraging XR technology. This cutting-edge system integrates virtual reality and visual programming techniques to deliver immersive, three-dimensional interactive simulations for equipment maintenance training. The platform enables maintenance personnel to study equipment structures, maintenance procedures, and troubleshooting techniques through highly detailed virtual models. It also incorporates virtual assessment capabilities to evaluate competency. This advanced training methodology has significantly enhanced skill levels, standardized maintenance protocols, and substantially reduced training-related expenses.



Anhui Huadian Wuhu Power Co., Ltd. Implements Advanced Visual 3D Digital Model Training System

Impact, Risk, and Opportunity Management

The Company adheres to the principles of “prevention-first, risk control, hierarchical management, and dynamic tracking” in formulating its Safety Production Risk Management Measures. Annual comprehensive identification and assessment of various risks are conducted, with targeted control measures developed to strengthen emergency management in safety production.



Indicators and Targets

During the Reporting Period

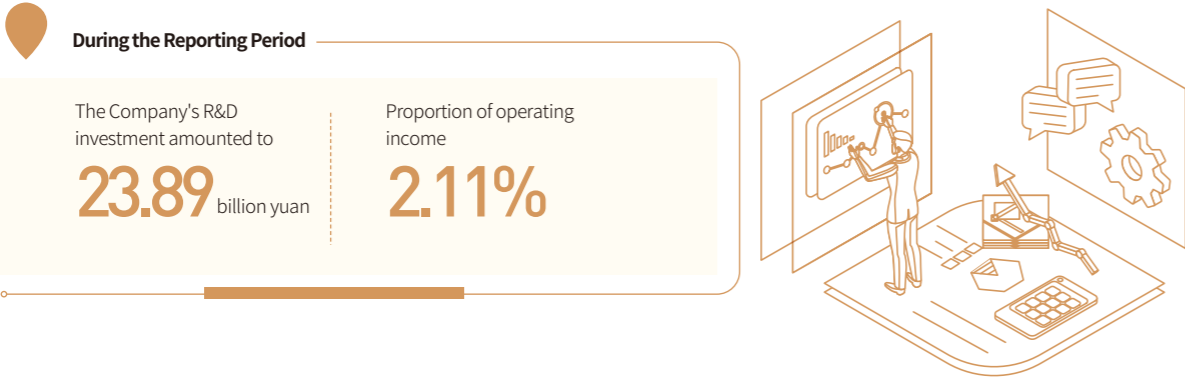
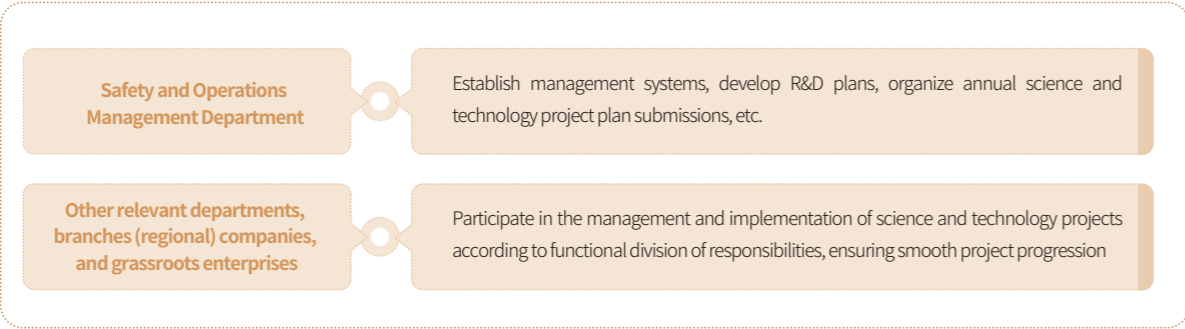
The company’s overall safety production situation remained stable, with no general or above production-related personal injuries, equipment accidents, or fire incidents occurring. No safety production events causing severe social impact were reported.

Indicators	Unit	2024	2023	2022
Number of work-related fatalities	person	2	0	0
Work-related fatality rate	%	0.01	0	0

Implementing Continuous Innovation



The Company has established the Huadian Power International Corporation Ltd. Science and Technology Project Management Measures to strengthen innovation management, enhance project execution efficiency and value creation capabilities, and promote technological advancement. Through these measures, the Company clearly delineates departmental responsibilities and standardizes the entire process from project application and approval to implementation and acceptance, ensuring efficient and orderly progress of science and technology projects. The Company adheres to scientific ethics, ensuring all research activities comply with legal and regulatory requirements.



Case Laizhou Company No. 2 Unit Digital Power Plant Construction

Through the development of a digital power plant, Laizhou Company implemented intelligent control technology for coal-fired power units. They designed an auto-start and shutdown control system, a coal-water synergistic load control strategy, and established a three-tier monitoring and diagnostic system. This enhanced the flexible operation capability of coal-fired power units, addressing issues such as frequent start-stops and increased operational workload. The project improved unit operational efficiency, resulting in annual economic benefits of approximately RMB 30.201 million.

Annual economic benefit is approximately

**3020.1** million yuan

Case Huadian Anhui Branch Actively Promotes Integration of Industry, Academia, and Research

Huadian Anhui Branch strengthened its scientific and technological innovation management system, enhanced process control, and rigorously screened science and technology project approvals. They established a regional scientific and technological innovation committee to foster synergy in innovation. The branch actively promoted industry-university-research integration, engaging in exchange and cooperation with national key laboratories such as the State Key Laboratory of Fire Science (SKLFS) at USTC, the National Key Laboratory of Power Grid Disaster Prevention and Mitigation in Hunan, and the National Engineering Technology Research Center for Simulation Control.



Huadian Anhui Branch's Industry-Academia-Research Integration

Case HeBei Branch of Huadian Power International Collaborates with Chongqing University on Project Commencement

In 2024, HeBei Branch of Huadian Power International in collaboration with Chongqing University, officially launched the “Research and Engineering Application of Ultra-Low Temperature Flue Gas Waste Heat Recovery System for Combined Cycle Units” project. This project focuses on two F-class “single-shaft” gas-steam combined cycle units at the Hebei Huadian Shijiazhuang Natural Gas Combined Heat and Power Project. It actively implements national carbon peak requirements, exploring efficient and clean utilization of natural gas. Upon completion, the thermal efficiency of the units is expected to improve by 4%.

The thermal efficiency of the units is expected to improve by

**4%**

## Intellectual Property Protection

Huadian Power International strictly adheres to relevant laws and regulations, ensuring all research activities and intellectual property management comply with legal requirements. The Company rigorously implements a policy whereby intellectual property generated from the Company's technological project research belongs to the project-undertaking unit within the organization. Costs associated with maintaining intellectual property rights are incorporated into general administrative expenses, thereby ensuring effective protection and management of innovative achievements.



### During the Reporting Period

The Company was not involved in any intellectual property-related disputes or legal proceedings.

## Digital Transformation

Huadian Power International consistently regards the security of information systems as a critical foundation for enterprise operations.



To ensure data security and privacy protection, we continuously strengthen technical safeguards and enhance security awareness and response capabilities among all employees. These measures safeguard the secure and stable operation of enterprise information systems.

## Data Security

Huadian Power International consistently regards the security of information systems as a critical foundation for enterprise operations. To ensure data security and privacy protection, we continuously strengthen technical safeguards and enhance security awareness and response capabilities among all employees. These measures safeguard the secure and stable operation of enterprise information systems.

Data Security



Privacy Protection

### During the Reporting Period

The Company received no complaints regarding infringement of customer privacy or loss of customer data. No major data security incidents or customer privacy breaches occurred.

## Ensuring Supply Chain Security

Huadian Power International is committed to developing an efficient and sustainable supply chain management system, promoting comprehensive optimization and standardization of procurement processes.

Through rigorous supplier selection and management mechanisms, the Company ensures quality and performance capability at every stage, reduce supply chain risks, and enhance overall procurement efficiency.

The Company emphasizes long-term cooperative relationships with various suppliers, particularly strengthening collaborative development with small and medium-sized enterprises (SMEs). This approach promotes mutual progress and ensures the stability and sustainable development of the supply chain.



### Governance

Huadian Power International has established a systematic material supply chain management framework. This framework ensures that material procurement and supply meet production and operational needs through clearly defined job responsibilities and task allocation. The Company's subordinate units strictly adhere to unified procurement standards, ensuring procurement activities comply with regulatory requirements while actively identifying and mitigating various potential risks.

The Company has implemented multiple core management regulations, including the Material Procurement Operation Guidelines and Supplier Cooperation Management Specifications. These regulations cover all aspects from procurement and supplier selection to warehousing and logistics. By refining management processes, the Company has effectively improved the efficiency and compliance of material management.



### Strategy

Huadian Power International rigorously complies with the Bidding Law of the People's Republic of China and related regulations. The Company is dedicated to developing a sustainable, high-quality supply chain system through the implementation of comprehensive procurement policies and supplier selection processes. Procurement encompasses fuel, construction equipment, materials, and associated services. To ensure legal compliance in procurement management and to promote open, fair, just, and honest bidding processes, the Company has established internal regulations, including the Huadian Power International Corporation Ltd. Materials Procurement Management Measures and the Huadian Power International Corporation Ltd. Construction Project Procurement Management Measures.

#### Supplier Management System

The Company adheres to the principles of "unified management, dynamic assessment, scientific control, and supporting excellence while eliminating underperformance" to maintain strict control over supplier selection, ensuring long-term cooperation and quality assurance.

#### Dynamic Supplier Assessment

Real-time management and effective supervision of suppliers are conducted to ensure compliance with various requirements during the supply process, including quality, safety, and the ISO 14001 Environmental Management System certification.

#### Specific Measures

#### Supplier Evaluation System

A scientific supplier evaluation index system has been developed, with regular assessments of suppliers to optimize the supplier structure.

#### Supplier Blacklist Management

A supplier blacklist system has been implemented to restrict suppliers who fail to meet requirements, further mitigating procurement risks.

Impact, Risk, and Opportunity Management

Huadian Power International prioritizes supply chain risk management to ensure uninterrupted power generation. The Company has developed comprehensive risk response measures addressing key risk factors such as raw material supply, transportation logistics, equipment failures, and natural disasters.

Raw Material Supply Risk

Risk Description

Instability in raw material supply or price fluctuations may lead to increased costs, impacting production costs and profits of power generation enterprises.

Response Measures

Diversify supplier channels, establish long-term stable supply contracts, and conduct regular supplier performance evaluations.

Transportation and Logistics Risk

Risk Description

Delays in transportation, traffic accidents, or severe weather may affect the timely delivery of equipment, fuel, and other raw materials.

Response Measures

Foster close partnerships with logistics companies, establish backup transportation plans, and optimize supply chain management.

Equipment Failure Risk

Risk Description

Malfunctions in power generation equipment or critical facilities may result in production stoppages, affecting energy supply and power generation capacity.

Response Measures

Implement robust equipment maintenance and inspection systems, conduct regular preventive maintenance to ensure long-term stable operation of equipment.

Payments to SMEs



Huadian Power International consistently honors its contractual commitments to SME partners, ensuring prompt settlement of all payables. The Company remains committed to maintaining stable cooperative relationships with various partners, strengthening financial management, ensuring stable asset operations, and treating all business partners with equality and fairness.

Enhancing Customer Service

Customer Service System

Huadian Power International rigorously adheres to laws and regulations such as the Civil Code and the Product Quality Law, implementing a comprehensive customer complaint handling system. The Company's affiliated electricity sales companies have developed the Huadian Power International Customer Feedback and Handling Management Measures, tailored to local conditions. This system ensures efficient operations at every stage, from receiving customer feedback and investigating issues to providing commercial compensation and implementing corrective measures, thereby enhancing the overall customer experience.

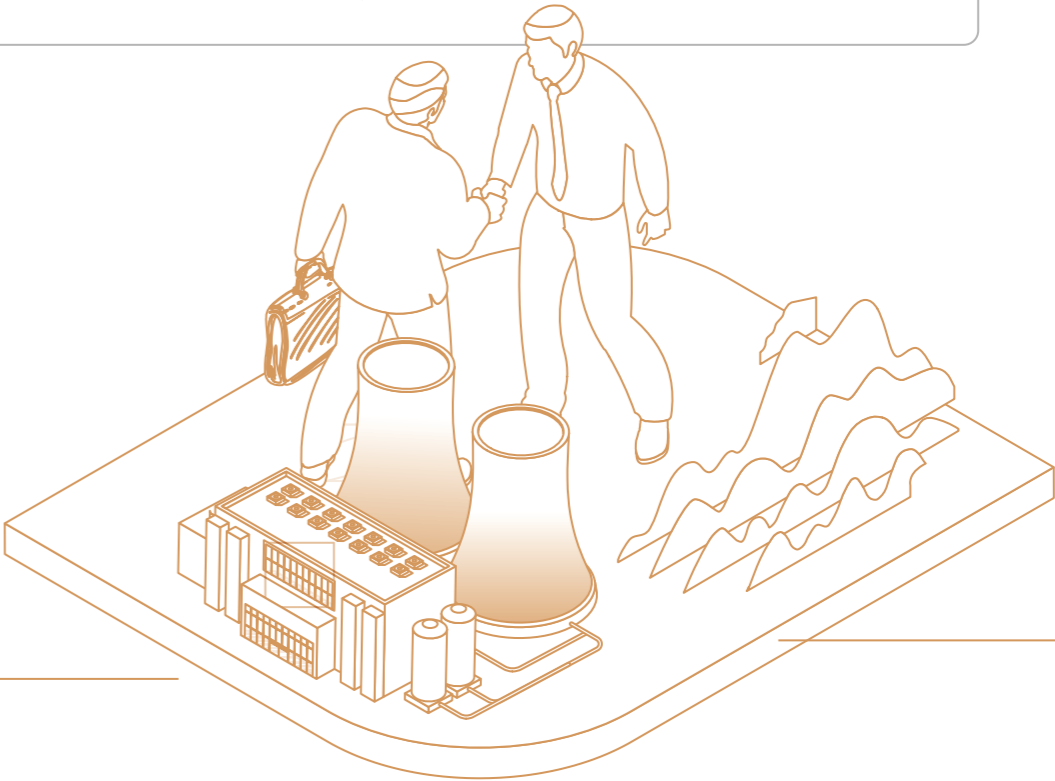


Customer Satisfaction

Huadian Power International's electricity sales companies conduct regular customer satisfaction surveys to gain an in-depth understanding of customer satisfaction with their products and identify key influencing factors.



In 2024, the evaluation results of customer comprehensive satisfaction are all excellent.



Fulfilling Social Responsibilities

As a centrally administered state-owned enterprise (SOE), Huadian Power International remains committed to its social responsibilities, actively addressing and meeting community needs, and striving to give back to society through sincere service. The Company is deeply involved in rural revitalization efforts and actively promotes various community volunteer service projects. Through concrete actions, Huadian Power International endeavors to support social development and advance public welfare, demonstrating its contribution and responsibility to society.

Rural Revitalization

Huadian Power International actively responds to national strategic initiatives, committed to consolidating and expanding poverty alleviation achievements. The Company deeply understands and practices its social responsibility and corporate commitment. In 2024, the Company continued to implement our consumption-based poverty alleviation strategy, purchasing and promoting agricultural products from our designated poverty alleviation counties in Xinjiang, providing tangible support for local economic development. Simultaneously, the Company further strengthened assistance efforts in affiliated regions, promoting rural revitalization projects to ensure the long-term stability of poverty alleviation achievements.



Social Contribution

Huadian Power International consistently encourages employee participation in charitable causes and promotes diverse volunteer activities to extend social care into communities. The Company provides employees with ample opportunities to engage, enhancing their sense of responsibility and mission as they contribute to society. Through a series of volunteer activities, the Company not only fosters harmonious community development but also strengthens cohesion and team spirit among employees.

Voluntary Blood Donation by Laizhou Company Employees

On October 14, 2024, Laizhou Company organized a voluntary blood donation event themed “Celebrating the National Day, Sharing Love.” The initiative received enthusiastic response and participation from grassroots union members. After thorough blood tests and physical examinations, a total of 6,000 ml of blood was successfully donated. This contribution provided valuable resources for Laizhou City’s emergency blood bank and, through the employees’ collective act of kindness, created a powerful force of compassion, offering hope to patients in urgent need of medical assistance.



Chongqing Company Fengjie Plant’s Volunteer Service Activities for Poverty Alleviation and Community Development

Chongqing Company Fengjie Power Plant has established a sustainable volunteer service mechanism, implementing initiatives such as “Degree of Care, Warmth for Green Oranges” and paired assistance to Tukan Village. They have supported 7 impoverished students, established 2 “Rainbow Houses,” and conducted 4 on-site visits. The plant formed a “Huadian Teaching Support Team,” delivering over 10 lessons benefiting more than 200 students. Additionally, the plant organized “Tender Love” and “Warm Smile” service teams to conduct over 30 volunteer service activities focused on poverty alleviation, elderly care, and disability assistance, helping residents resolve hundreds of household appliance issues.



Anhui Huadian Wuhu Power Co., Ltd. “Star Wish” Volunteer Service Team’s “Let Star Children Not Be Alone” Initiative

The “Star Wish” Volunteer Service Team of Anhui Huadian Wuhu Power Co., Ltd. has been actively involved in rehabilitation activities for children with autism since its inception. The team has assisted over 500 families with autistic children and collaborated with nearly a thousand volunteers to raise social awareness. In recognition of their efforts, the service team has received multiple accolades, including the prestigious “China Power Media ‘Top Ten Public Welfare Organizations’ ” award.



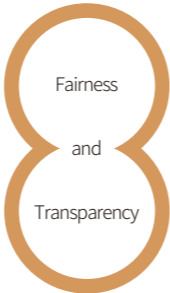
Huadian Power International Shiliquan Power Plant’s “Gentle Light” Warmth Delivery and Educational Support Program

On March 5, 2024, Huadian Power International Shiliquan Power Plant, in partnership with Zaozhuang City Youth Science Academy, conducted the “Huadian in Shandong, Walking with Love, Gentle Light Education Support, Flying Your Dreams” Lei Feng volunteer service activity. Volunteers provided scholarships to underprivileged students and organized an engaging public drone class, featuring demonstrations and gifts of assembled aircraft models.

Social Contribution

Tax Management

Huadian Power International places high importance on tax compliance, strictly adhering to relevant domestic and international tax regulations, and consistently fulfilling its statutory tax obligations. We have established a comprehensive tax management system to ensure standardized and transparent tax processes. Subsidiaries execute tax operations in accordance with the Company’s overall tax strategy and management measures, ensuring compliance and efficiency. During tax audits, we maintain proactive communication and cooperation with tax authorities, promptly providing required materials and fostering good relationships to ensure smooth audit processes and jointly promote a fair and transparent tax environment.



During the Reporting Period

There were zero controversial incidents or legal litigations.

Energy Supply

Huadian Power International consistently prioritizes energy supply assurance, actively responding to coal market price fluctuations and operational pressures on coal-fired power enterprises to ensure stable energy supply. To this end, the Company has implemented several effective measures to guarantee safe and reliable energy supply, and reasonably arranges financial support based on the financing environment and funding needs to ensure financial security for energy supply.

Strengthening Organizational Support



Establishing a leading group for ensuring energy supply, clarifying responsibilities, and coordinating efforts to ensure orderly progress of energy supply practice.

Financial Support and Allocation



Arranging financing support based on the financial needs and status of coal-fired power enterprises, ensuring funds are in place to meet energy supply demands.

Emergency Response and Assurance



Improving emergency response mechanisms, enhancing emergency drills, especially during winter and holiday periods, to ensure continuous and stable energy supply.



# 04 Low-Carbon Operations Pursuing Green Missions

Huadian Power International actively responds to national strategic policies, continuously cultivates emerging businesses, strengthens the capabilities to address climate change, and promotes the transformation of the energy structure towards a green, low-carbon, and efficient direction. Moreover, the company comprehensively creates a cultural atmosphere of ecological and environmental protection, encourages employees to participate in ecological conservation in various ways, and makes efforts to jointly build a harmonious, green, and beautiful homeland.



# Addressing Climate Change

## Governance

Huadian Power International has proactively incorporated the strategic goals of “carbon peak and carbon neutrality” and national energy structure transformation requirements into its 14th Five-Year Plan, in response to the latest domestic and international policy developments. We have established a dedicated carbon management position to spearhead climate change-related initiatives, coordinate planning, and implement sustainable development strategies, ensuring steady progress in the Company’s green and low-carbon transformation.



## Strategy



### New Energy Business Development:

Cultivate emerging businesses and models, steadily advancing the implementation of integrated energy and geothermal projects. We rigorously pursue all aspects from initial research and site selection to quality control and progress management during construction, as well as optimization and efficiency improvement during operation, to ensure orderly project development.

Actively lead and demonstrate hydrogen energy projects. We assemble professional R&D teams to overcome key technical challenges in hydrogen production, storage, transportation, and application. We establish industry-academia-research cooperation platforms, integrate multi-party resources, and accelerate the marketization of hydrogen energy projects to support the green transformation of the energy structure.

### Advancement of Gas Turbine Projects:

In the new power system, coal-fired power continues to play a crucial role in regulating and ensuring power supply. The Company scientifically plans coal power projects based on the power system’s needs, especially in areas with adequate gas supply and strong price affordability, to ensure energy supply stability.

Promote green upgrades of coal power technology to reduce carbon emissions and improve power generation efficiency. To address the uncertainties brought by fluctuations in renewable energy, we reasonably develop gas turbine projects to enhance the flexibility and regulatory capacity of the power system, ensuring stable grid operation.

Achieve a low-carbon, high-efficiency energy structure by optimizing the synergistic development of coal and gas power projects, promoting energy transition and sustainable development goals.



## Case Huadian Power International Actively Promotes the Development of Next-Generation Energy Projects

Huadian Power International actively promotes the development of next-generation clean and efficient energy projects to further enhance the green and low-carbon level. Recently, clean and efficient coal power units such as Hunan Pingjiang No. 2, Guangdong Shantou, Shandong Longkou Phase IV Unit 1, and Tianjin Nangang No. 3 have successfully commenced operations. Simultaneously, Shandong Province’s first 9F heavy-duty gas turbine project—Qingdao Gas Turbine Unit 1—has also successfully started operation, enhancing the strategic deployment of gas power generation.

### Clean Production

The Company firmly focuses on high-quality development goals, fully committing to clean and low-carbon transformation practices. We consistently establish clean production as the core thread of project advancement, with strict control throughout the project lifecycle, from design to implementation to operation and maintenance. High standards and stringent requirements are implemented in all aspects to ensure that each link closely aligns with the concept of green development.

### Green Office Practices

The Company actively promotes the implementation of green office concepts, encouraging employees to reduce paper usage through electronic documents and online collaboration tools. We strive to reduce energy consumption and resource waste in daily office activities.

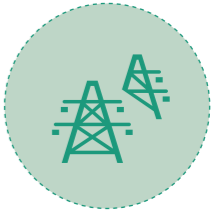


Impact, Risk, and Opportunity Management

To address the increasing frequency of extreme weather events such as heatwaves, heavy rainfall, and typhoons, and to ensure safe and stable production, Huadian Power International has implemented a systematic approach to identify and analyze climate risks facing the Company. This comprehensive assessment includes physical risks, both acute (extreme weather events) and chronic (gradual temperature rise and changing precipitation patterns), as well as transition risks related to policy changes and market shifts. The Company also identifies and analyzes climate change-related opportunities, promptly developing corresponding risk management strategies and response measures.

Risk/Opportunity Category		Risk Description	Response Measures
Physical Risks	Acute Risk - Extreme Weather	Extreme weather events such as heavy rainfall, typhoons, and heatwaves may damage power generation equipment, disrupt power grids, and interrupt fuel supply, severely impacting power production and supply stability.	Enhance disaster-resistant design and conduct regular inspections of power facilities. Develop comprehensive emergency response plans and improve grid recovery capabilities. Collaborate with meteorological departments to adjust production plans based on climate forecasts, ensuring rapid restoration of normal operations.
	Chronic Risk - Rising Temperatures, Changing Precipitation Patterns	May lead to water scarcity and reduced cooling system efficiency, affecting power generation efficiency and operational costs.	Optimize water resource management and improve cooling technology efficiency. Invest in renewable energy and low-carbon technologies to reduce dependence on traditional energy sources. Enhance long-term climate change forecasting capabilities and adjust operational strategies to address long-term climate impacts.
Transition Risks	Policy and Regulatory Risk - Introduction of Carbon Reduction Policies	Implementing emission reduction measures to meet national requirements may increase operational costs.	Strengthens energy management, enhances energy utilization efficiency, and reduces energy consumption per unit. Promote clean energy use and facilitate low-carbon transition.
	Market Risk - Resource Price Changes	Electricity price market risk refers to fluctuations in electricity prices due to changes in market supply and demand, affecting power generation companies' revenue and profitability	Coordinate power and coal market strategies to balance quantity and price in medium and long-term markets. Optimize spot market power generation strategies. Actively participate in auxiliary service markets to stabilize and improve per-kilowatt-hour efficiency.

The Company and its subsidiaries have developed detailed work plans and emergency response protocols to address these potential risks. Regular drills are conducted, including mechanisms and exercises for peak summer power supply, flood prevention power assurance, and typhoon preparedness. These measures ensure quick and effective responses to extreme weather events and maintain stable power production.

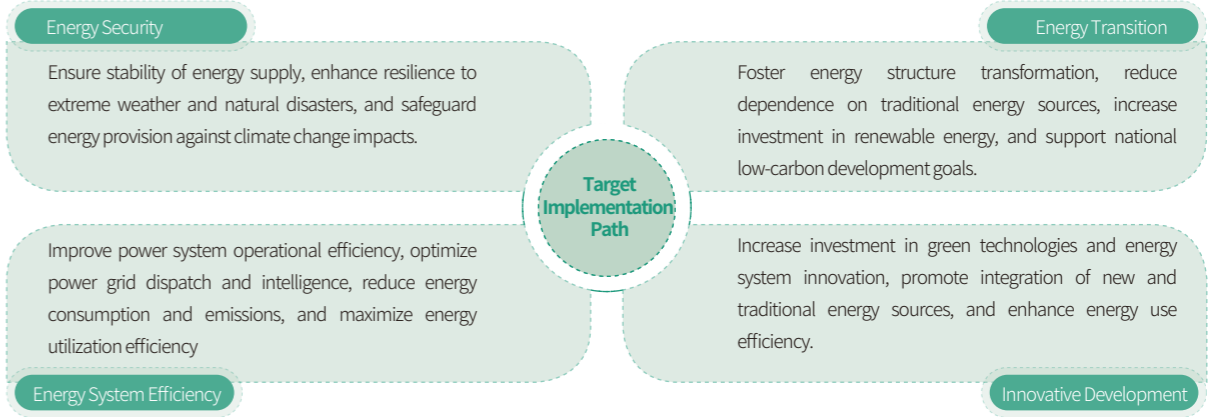


Case Yuhua Thermoelectric Hosts Joint Environmental Emergency Response Drill

Yuhua Thermoelectric joined forces with the municipal and district environmental protection departments to conduct an emergency drill for sudden environmental incidents. This drill enhanced the collaborative response capabilities of the government and enterprises and improved the level of emergency rescue, as well as refined the environmental early - warning and emergency response mechanisms. It has been highly praised by the local environmental protection departments.

Indicators and Targets

Huadian Power International fully recognizes the long-term impact of climate change on the energy sector. The Company has established clear objectives to address climate change and has developed standardized development pathways and implementation methods based on these goals. By focusing on five core areas—energy security, energy transition, energy system efficiency, innovative development, and service quality—the Company aims to ensure stable energy supply while addressing the challenges posed by climate change and capitalizing on opportunities presented by green development in its future growth.



# Strengthening Environmental Management

## Environmental Management System

Huadian Power International consistently adheres to relevant laws and regulations, including the Environmental Protection Law of the People’s Republic of China and the Environmental Impact Assessment Law of the People’s Republic of China. Utilizing the ISO 14001:2015 environmental management system, the Company continuously strengthens and refines its environmental management system. To ensure the effective implementation of environmental protection measures, we have developed a series of protocols, including the Environmental and Occupational Health and Safety Operational Control Procedure, the Environmental Health and Safety Performance Monitoring and Measurement Control Procedure, and the Natural Disaster Emergency Response Plan. The Company actively conducts environmental health and safety monitoring to achieve effective control and continuous improvement.



### Company Leadership

Primary responsible entity for the Company’s environmental protection efforts, bearing overall responsibility for the Company’s ecological and environmental protection initiatives.



### Safety and Operations Management Department

Responsible for formulating and implementing the Company’s ecological and environmental protection policies and measures. Organizes regular environmental risk assessments, environmental monitoring, and emergency drills. Supervise and manage the normal operation of environmental protection facilities, ensure pollutant emissions meet standards, and promote continuous improvement of green technologies and environmental protection equipment.



### Functional Departments & Subsidiaries

Implement environmental protection work based on each unit’s business scope and the ecological and environmental protection systems issued by the parent company, ensuring effective implementation of specific environmental protection measures.

## Environmental Management Initiatives

Huadian Power International strictly adheres to relevant laws and regulations concerning water resources and land pollution, 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, and the Water and Soil Conservation Law of the People’s Republic of China. The Company fully implements national legal and regulatory requirements, rigorously following a series of management regulations such as the Supervision and Management Measures on Ecological Protection of China Huadian Corporation Limited, the “Three Simultaneities” Management Measures for Construction Project Environmental Protection and Water and Soil Conservation of China Huadian Corporation Limited, and the Pollutant Discharge Permit Management Measures of China Huadian Corporation Limited.

During operations, the Company’s primary emissions include air pollutants (such as sulfur dioxide, nitrogen oxides, and soot), greenhouse gases, wastewater, and solid waste. To address these environmental impacts, we have implemented a comprehensive set of environmental management measures to reduce our ecological footprint and ensure regulatory compliance.

### Environmental Facility Operation and Management Optimization

The Company continually enhances the management of its environmental protection facilities, with particular emphasis on spare parts management, to ensure stable and compliant operation. The Safety and Operations Management Department conducts daily inspections of these facilities, promptly identifying issues and notifying relevant units to maintain efficient and stable equipment operation.

### Pollutant Emission Monitoring and Early Warning Mechanism

The Company has established comprehensive records for its environmental protection facilities and installed pollutant discharge outlets in accordance with relevant regulations. Automatic monitoring equipment has been deployed to ensure that emission data is legally networked and publicly disclosed, guaranteeing transparent and accurate environmental information.

### Employee Environmental Awareness Enhancement and Training

To foster a culture of environmental stewardship and refine the environmental management system, the Company regularly conducts environmental protection training and education. This ensures strict implementation of various environmental management requirements and maintains the effective operation of the environmental management system.



The Company integrates overall environmental protection status, environmental investments, and improvement strategies into its annual summaries and planning. This approach ensures that environmental protection initiatives are closely aligned with our overall strategy and continuously advanced. Additionally, we have strengthened supervision and management of environmental indicators, implementing strict controls on pollutant emissions to ensure compliance with national and local environmental standards.

Case

**Xinxiang Power Generation Co., Ltd. Develops Environmental Management Guidance Manual**

Xinxiang Power Generation Co., Ltd. has developed an Environmental Management Guidance Manual based on the latest national environmental protection policies. This comprehensive guide outlines our environmental management requirements for waste gases, wastewater, online monitoring, solid waste, and vehicle control. It serves as a scientific, systematic, and practical environmental management resource for the Company.



Huadian Xinxiang Power Generation Co., Ltd.'s Environmental Management Guidance Manual

**Wastewater Management**

Huadian Power International strictly complies with national and local wastewater disposal and discharge regulations. The Company and its subsidiaries' power generation projects adhere to the principles of "separating clean and polluted water, segregating rainwater and sewage, and maximizing water reuse". Through advanced wastewater treatment systems, processed effluent is partially utilized for plant landscaping and cleaning, with the remainder discharged in accordance with regulatory standards.

Since 2016, the Company's thermal power plants have undergone comprehensive wastewater treatment upgrades, achieving full compliance with environmental discharge standards by 2020. We will continue to pursue our objectives, aiming to achieve near-zero wastewater discharge, excluding once-through cooling water.

— 2024 Statistics —

Total wastewater discharge **1403** 10,000 tons



Case

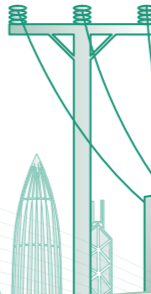
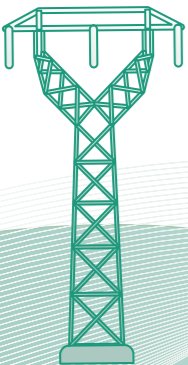
**Xinxiang Power Generation Co., Ltd. Achieves "Zero Wastewater Discharge"**

Xinxiang Power Generation Co., Ltd. has pioneered innovative treatment processes based on salinity levels, implementing a "three-tier utilization" technology for high-salinity wastewater. This approach includes reusing desulfurization wastewater in the slag removal system, recycling intermediate water in the desulfurization system, and employing dewatering treatments. These measures enable the recovery and reuse of 1 million tons of wastewater annually, significantly reducing effluent discharge.

Case

**Anhui Huadian Suzhou Power Generation Co., Ltd Optimizes Industrial Wastewater Management**

Anhui Huadian Suzhou Power Generation Co., Ltd. optimizes wastewater utilization by recycling boiler blowdown cooling water, desulfurization vacuum pump seal water, and desulfurization recycled water, reducing industrial wastewater by approximately 30 tons per hour, significantly lowering environmental risks.



Waste Gas Management

Huadian Power International consistently prioritizes and actively implements national environmental protection policies and regulations to ensure air pollutant emissions comply with stringent national standards and continuously optimize its waste gas management system.

Daily monitoring and enforcement are strengthened to ensure the effective implementation of environmental protection measures. Annual targets are set for gas emissions and treatment equipment operational status and the effectiveness of the treatment is assessed through data monitoring and analysis to ensure the achievement of exhaust gas management goals.

Maintenance of Aging Equipment

The Company has intensified its program of regular maintenance and overhaul of waste gas control facilities to ensure their long-term stable operation. Each unit is also increasing technological upgrades and optimizing operational modes to address the impacts of equipment aging, thereby ensuring continuous compliance with emission standards.



Ultra-low Emission Retrofits

The Company has successfully completed ultra-low emission retrofits for all coal-fired power units, fully implementing and ensuring compliance since 2020. Through these technical upgrades, we have significantly reduced the emission concentrations of key air pollutants such as sulfur dioxide, nitrogen oxides, and soot, substantially enhancing the treatment capacity of air pollution control facilities.

Gas emissions - Nitrogen Oxides (NO<sub>x</sub>)

24286 Tons

Gas emissions - Sulfur Dioxide (SO<sub>2</sub>)

12282 Tons

Gas emissions - Particulate Matter

1554 Tons

Case

Huadian Xinxiang Power Generation Co., Ltd. Reduces Air Pollution Through Innovative Retrofits

Huadian Xinxiang Power Generation Co., Ltd. optimizes deep peak shaving, increases the reheat steam temperature of #2 unit by 12-15°C, saving 168.73 tons of coal annually, and reducing carbon dioxide emissions by 490.41 tons. The reclaiming lighting transformation saves 7,200 kilowatt-hours of electricity annually, and the installation of a solar carport supplies 85,000 kilowatt-hours of electricity annually, resulting in a total annual reduction of carbon dioxide emissions by 80 tons.

Waste Management

Huadian Power International rigorously complies with national and local regulations throughout its operations. The Company has implemented comprehensive policies, including the Hazardous Waste Pollution Prevention and Control Management Measures and upholding the principles of classified collection, resource utilization, and harmless treatment, we employ effective measures to ensure proper waste disposal and discharge in full compliance with environmental protection requirements.

The Company's waste stream primarily consists of hazardous waste, such as spent catalysts and waste oil, as well as general solid waste, including desulfurization gypsum, coal ash, and slag.

To guarantee safe and compliant waste treatment and disposal, we have established dedicated hazardous waste storage facilities. The Company partners with qualified third-party contractors for transportation and processing, achieving a 100% disposal rate for hazardous waste. For general solid waste, we actively promote a circular economy approach. This includes efforts to maximize the resource utilization of desulfurization gypsum, coal ash, and slag, or achieving comprehensive utilization through external sales. These strategies aim to minimize environmental impact while maximizing resource recycling.

During the Reporting Period

Total general industrial solid waste discharge

3098.46

10,000 Tons

Harmless waste generation volume

3097.85

10,000 Tons

Quantitative Data

Total amount of solid waste disposal

2907.86

10,000 Tons

Harmless waste disposal volume

2907.31

10,000 Tons

Hazardous waste disposal volume

0.56

10,000 Tons

Case

Anhui Huadian Suzhou Power Generation Co., Ltd. Expands Hazardous Waste Storage Facility

Adhering to the fundamental principle of "prevention first, integration of prevention and control" in environmental protection, Anhui Huadian Suzhou Power Generation Co., Ltd. has expanded its hazardous waste management capabilities. The Company strictly implemented the "Three Simultaneities" system and constructed a new 128-square-meter hazardous waste temporary storage facility. This expansion fully complies with the Standard for Pollution Control on Hazardous Waste Storage (2023 version) and other relevant requirements.



Anhui Huadian Suzhou Power Generation Co., Ltd. Expands Hazardous Waste Storage Facility

Case

Sichuan Guang'an Power Generation Co., Ltd. Enhances Solid Waste Utilization Rate Through Plant-Wide Ash and Slag Comprehensive Utilization Project

Sichuan Guang'an Power Generation Co., Ltd. has made substantial progress in its plant-wide ash and slag comprehensive utilization project. The initiative has successfully implemented in-plant dewatering and temporary storage of boiler ash and slag, as well as in-plant recycling of ash flushing water. As a result, the annual ash and slag utilization rate has increased dramatically from 74.32% to 95.48%, significantly alleviating pressure on ash storage capacity.



Sichuan Guang'an Power Generation Co., Ltd.'s Plant-Wide Ash and Slag Comprehensive Utilization Project

Optimizing Energy Utilization

Energy Conservation Management and Energy Structure Transformation

Huadian Power International strictly complies with resource utilization laws and regulations, including the Cleaner Production Promotion Law of the People's Republic of China and the Environmental Compliance Guidelines for Coal-fired Power Enterprises. This commitment ensures both regulatory compliance and efficiency in resource utilization. In line with the energy conservation priority policy outlined in the Huadian Power International Energy Development Plan, the Company is decisively driving its energy structure towards green, low-carbon, and high-efficiency alternatives. Building on this foundation, we have reinforced our energy conservation management system, continuously improving energy utilization efficiency and minimizing energy waste.

2024 Statistics

Total water consumption for power generation

23,346.40 10,000 tons



Energy-Saving Technical Reforms and Recycling

Huadian Power International's primary energy sources include coal, natural gas, diesel, and water resources. To enhance resource conservation and utilization efficiency, the Company implements strict controls on energy consumption during project construction. Additionally, it promotes energy-saving retrofits for existing coal-fired power generation units, ensuring alignment with relevant energy conservation and emission reduction policies.

Optimize production processes, upgrade equipment technology, improve energy conversion efficiency, and continuously promote the use of clean energy and the efficient utilization of traditional energy.

Case

Hebei Huadian Shijiazhuang Thermal Power Co., Ltd. Implements Lean Management for Energy Conservation and Emission Reduction

Shijiazhuang Electric Heating Company has strengthened energy conservation and emission reduction management, optimized unit operation, established a combustion engine efficiency system, and carried out start-stop gas consumption and inter-value index competitions to improve unit efficiency. The No. 1 unit of Phase 9 has won the title of Excellent Unit by the China Electricity Council for three consecutive years and has been consecutively awarded the 5A unit for two years. During the reporting period, the coal consumption for power generation has decreased by 9.34g/kWh year-on-year, the plant power consumption rate has decreased by 0.32%, the nitrogen oxide emission has decreased by 33.8 tons, and the carbon emission has decreased by 39,900 tons.

During the reporting period

The coal consumption for power supply decreased by

9.34 g/kWh

The auxiliary power consumption rate is reduced by

0.32%

The emissions of nitrogen oxides have decreased by

33.8 tons

Carbon emissions are reduced by

39,900 tons



Intelligent Management

Huadian Power International has implemented an advanced energy monitoring and analysis system to conduct real-time surveillance and data analysis of various energy consumption types. Looking ahead, the Company is committed to intensifying its R&D and application of green, low-carbon technologies. This initiative aims to promote the large-scale development of clean energy, ultimately achieving sustainable optimization of energy management.

Case

Yuhua Thermoelectric has completed the construction of an environmental protection comprehensive supervision platform based on digital twinning.

Yuhua Thermoelectric has successfully deployed a comprehensive environmental protection monitoring platform based on digital twin technology. This cutting-edge platform enables environmental business asset management, intelligent data processing, scientific feedback control through mathematical modeling and IoT technology, and automatic generation of various data Reports for environmental protection departments. This implementation lays a solid foundation for achieving an ‘A’ grade in environmental performance.



Case

Laizhou Company Unit 2 Digital Power Plant Construction

Relying on the No. 2 unit digital power plant, Laizhou Company developed intelligent control technology for thermal power units, designed a fast automatic start-stop system, optimized coal-water coordinated control, established an equipment condition early-warning model, and generated annual economic benefits of approximately 30.201 million yuan.

Annual economic benefit is approximately  
**30.201** million yuan

2024 Statistics



Indirect energy consumption

**171.85**

10,000 Tons of standard coal



Direct energy consumption

**6974.03**

10,000 Tons of standard coal



Total energy consumption

**7145.87**

10,000 Tons of standard coal

Among these energy consumption figures



Coal consumption

**6509.95**

10,000 Tons of standard coal



Diesel consumption

**2.90**

10,000 Tons of standard coal



Purchased heat

**461.19**

10,000 Tons of standard coal



Purchased electricity

**171.85**

Tons of standard coal



Clean energy consumption

**503.11**

10,000 Tons of standard coal



Energy consumption intensity

**632.41**

Tons of standard coal per hundred million yuan

Advancing Environmental Protection

Environmental Public Welfare Activities

Huadian Power International is dedicated to fostering a positive ecological and environmental protection culture. The Company employs a multifaceted approach to disseminate environmental protection knowledge and enhance employee awareness. These efforts include creating informative banners and display boards, conducting classroom training sessions, organizing practical exercises, holding mobilization meetings, arranging knowledge quizzes. These diverse activities aim to comprehensively educate staff on ecological and environmental protection issues.

Ecosystem Protection

Huadian Power International rigorously adheres to the Water and Soil Conservation Law of the People’s Republic of China and the Environmental Protection Law of the People’s Republic of China, among other relevant policies, actively promoting water and soil conservation efforts. For all construction projects, the Company consistently conducts comprehensive environmental impact assessments, identifying potential environmental factors and formulating specific protection measures to ensure effective preservation of the ecological environment throughout the project lifecycle.

Throughout the phases of project construction, mining, and operational management, we maintain a stringent management system to ensure thorough implementation of environmental protection and water and soil conservation measures. We fully execute the “Three Simultaneities” system, integrating environmental impact assessment reports, water and soil conservation plans, and corresponding measures throughout the entire project implementation process, thereby minimizing the ecological impact of construction activities to the greatest extent possible.

Case

Sichuan Huadian Guang'an Company 2024 "6.5" World Environment Day Activities

Sichuan Huadian Guang'an Company held the 2024 "6.5" Environment Day publicity activity with the theme of "Comprehensively Advancing the Construction of a Beautiful China". Through exhibition boards, brochures and on-site explanations, the company's ecological and environmental protection achievements were publicized and the local people's environmental protection awareness was raised.



Sichuan Huadian Guang'an Company World Environment Day Activities

Case

Anhui Huadian Wuhu Power Co., Ltd. Conducts “Proliferation and Release: Protecting Our River Together” Initiative

Anhui Huadian Wuhu Power Co., Ltd. launched a “Proliferation and Release: Protecting Our River Together” initiative, taking practical action to establish the most environmentally friendly power plant along the river and safeguard the cleanliness and beauty of the Yangtze River.



“Proliferation and Release: Protecting Our River Together” Initiative

Case

Luding Company Successfully Conducts 2024 Autumn Fish Release Program

Luding Company successfully executed its autumn fish release program, introducing 100,000 fish fry into the Dadu River. This effort effectively contributes to maintaining the biodiversity of the Dadu River basin and significantly promotes the harmonious coexistence of hydropower development and ecological preservation.



Luding Company’s Autumn Fish Release Program

# Future Outlook

As we look towards 2025, Huadian Power International will build upon the accelerated green development, improved operational efficiency, technological breakthroughs, and ongoing reform momentum achieved in 2024. The Company will further enhance its integrated management approach, focusing on safety and environmental protection, transformation and development, quality and efficiency improvement, and internal control compliance risk. We are committed to continuously enhancing our high-quality development capabilities and innovative collaborative service support systems. We will capitalize on the strategic opportunities presented by the national “dual carbon” strategy, thoroughly implementing the new energy security framework to propel the enterprise towards a new era of high-quality development.

Adhering to the principle of seeking progress while maintaining stability, the Company will coordinate efforts across safety production, energy conservation, environmental protection, technological innovation, and internal control compliance management. Our focus will be on optimizing our energy structure, accelerating the development of new energy and energy storage projects, deepening the application of digital and intelligent technologies, and fostering the integration of traditional and emerging energy sources. These initiatives aim to enhance resource allocation efficiency, improve asset operation quality, expand our development horizons, and boost overall performance.

Concurrently, the Company will reinforce its commitment to refined management practices, enhance market analysis capabilities, optimize resource allocation, strengthen the role of technological innovation, improve synergies across the entire industrial chain, and continuously enhance our corporate governance mechanisms. Our ultimate goal is to establish Huadian Power International as a world-class, robust, and expansive listed energy company.

We believe in the power of simplicity and the importance of practical action. Huadian Power International will move forward with renewed determination, embracing our role as a centrally administered SOE. We remain confident in our development trajectory and are committed to uniting our workforce in pursuit of excellence. Our aim is to pioneer a new paradigm of high-quality enterprise development, making substantial contributions to national energy security and the green, low-carbon transformation of our economy.



# Appendix

Key Performance Indicators

Environmental

Level 1 indicators	Level 2 indicators	Level 3 indicators	unit	2024	2023
Resource Consumption	Water Resource	Total water consumption of power generation	ton	233,464,029	261,311,000
		Water consumption rate of thermal power enterprises	Kilograms/KWH	1,048.68	1,167.60
		Water consumption intensity (in millions of revenue)	Tons / million yuan	2,066.16	/
	The Sources of Energy	Specific energy use statistics:			
		Diesel consumption	Tons of standard coal	28,996.29	20,399.40
		gas consumption	Tons of standard coal	4,611,860	4,347,959
		Total coal consumption	Tons of standard coal	65,099,465	67,097,351
		Purchase of electricity	Tons of standard coal	1,718,544.94	/
		Direct energy consumption	Tons of standard coal	69,740,321.37	/
		Indirect energy consumption	Tons of standard coal	1,718,544.94	/
		Total energy consumption	Tons of standard coal	71,458,866.31	/
		Energy intensity (in millions of revenues)	Tne standard coal / one million yuan	632.41	/
		Clean energy consumption	Tons of standard coal	5,031,120.82	/
Pollutant Discharge	Exhaust Gas	Emission of waste gas pollutants:			
		NO <sub>x</sub>	ton	24,286	12,368
		SO <sub>2</sub>	ton	12,282	22,208
		Smoke emissions	ton	1,554	1,298
	Solid Waste	Total amount of solid waste produced	ton	30,984,608	/
		Production amount of harmless waste	ton	30,978,527	/
		Hazardous waste production	ton	6,081	/
		Total amount of solid waste disposal	ton	29,078,667	/
		Harmless waste disposal volume	ton	29,073,061	/
		Amount of hazardous waste disposal	ton	5,606	/
		Comprehensive utilization rate of fly ash	%	95.68	99.89

Level 1 indicators	Level 2 indicators	Level 3 indicators	unit	2024	2023
Pollutant Discharge	Solid Waste	Comprehensive utilization rate of slag	%	83.57	99.23
		Comprehensive utilization rate of desulfurized gypsum	%	95.23	99.97
		Strength of harmless waste generation (in millions of revenues)	Tons/million yuan	274.16	/
		Hazardous waste generation intensity (in millions of revenue)	Tons / million yuan	0.05	/
Climate Change	Green House Gas Emission	Total greenhouse gas emissions	Ten thousand tons of carbon dioxide equivalent	17,713	17,891
		Greenhouse gas emissions per unit of electricity generation	Ton / KWH	0.78	0.80
Environmental Control	Environmental Protection Input	Total investment in environmental protection	10,000 Yuan	177,863	/
		Proportion of total investment in environmental protection in operating revenue	%	1.57	/

Social

Level 1 indicators	Level 2 indicators	Level 3 indicators	unit	2024	2023
Employee Rights and Interests	Employee Structure	Number of employees at the end of the term	person	25,093	24,875
		By gender:			
		Number of male employees	person	19,690	19,418
		Number of female employees	person	5,403	5,457
		By age:			
		Age 24 and below	person	1,927	1,720
		Age 25-29	person	3,306	3,064
		Age 30-34	person	3,537	3,473
		Age 35-39	person	2,740	2,436
		Age 40-44	person	2,345	2,719
		Age 45-49	person	4,141	4,408

Level 1 indicators	Level 2 indicators	Level 3 indicators	unit	2024	2023
Employee Rights and Interests	Employee Structure	Age 50-54	person	4,470	4,652
		Age 55 and over	person	2,627	2,403
		By education level:			
		Graduate student or above	person	1,529	1,201
		Undergraduate college	person	13,797	13,037
		Junior college	person	6,399	6,841
		Technical secondary school	person	1,937	2,147
		Technical school degree	person	477	517
		High school and below	person	954	1,132
		Number of disabled employees	person	116	/
		Number of ethnic minority employees	person	484	/
		By region:			
		Chinese mainland number of employees	person	25,093	24,875
		Employee area composition:			
		Beijing	person	124	118
		Shandong	person	11,401	11,388
		Hubei	person	2,720	2,735
		Anhui	person	386	282
		Ningxia	person	16	6
		Sichuan	person	1,535	1,453
		Zhejiang	person	1,018	1,051
		Hebei	person	2,254	2,291
		Henan	person	1,114	1,099
		Guangdong	person	1,498	1,397
		Tianjin	person	822	718

Level 1 indicators	Level 2 indicators	Level 3 indicators	unit	2024	2023
Employee Rights and Interests	Employee Structure	Shanxi	person	471	459
		Nei Monggol	person	60	65
		Chongqing	person	521	427
		Hunan	person	750	1,090
		Other	person	403	296
		By professional composition:			
		managerial position	person	5,111	5,167
		professional technical post	person	2,952	2,935
		Production positions	person	16,226	15,915
		Service positions	person	700	734
		Other positions	person	104	124
		Number of new hires	person	1,360	/
		By recruitment channels:			
		The number of new graduates	person	1,188	/
		Number of social recruited employees	person	172	/
	Pay and Benefits	Total number of paid vacation days for all staff	day	252,676	/
		Number of days of paid leave per employee	day	10.17	/
		The number of people insured by the social insurance system	person	25,093	/
		Social insurance payment coverage of employees	%	100	100
		The number of people insured by serious illness insurance	person	23,589	/
	Development and Training	Critical illness insurance coverage rate	%	94.01	100
		According to the training content, the number of employee training participants:			
		Participate in the training of China Huadian Corporation and its superior units	person-time	26,091	40,872
		Qualification training	person-time	82,458	19,492
		Adaptive training	person-time	132,929	88,495

Level 1 indicators	Level 2 indicators	Level 3 indicators	unit	2024	2023
Employee Rights and Interests	Development and Training	Technical level training	person-time	32,475	44,045
		Continuing education and training	person-time	1,625	1,087
		Other training	person-time	61,176	129,479
		Employee training expenses	ten thousand Yuan	10,580	/
		Total duration of staff training	ten thousand hours	245	/
		Average training hours per employee	hour	99	/
		Total number of staff training participants	person-time	336,754	/
		Staff training coverage rate	%	98	/
		Total number of employees participating in the training program	person	24,715	/
		By gender structure:			
		Number of male staff trained	person	19,418	19,182
		The proportion of male employees trained	%	98.62	78.01
		Male staff per capita training time	hour	102.19	83.87
		Number of female staff trained	person	5,297	5,407
		Proportion of female staff trained	%	98.03	21.99
		Average training hours for female employees	hour	87.52	83.06
		By employee type:			
		The number of enterprise leaders (including directors and supervisors) to be trained	person	544	448
		The number of enterprise leaders (including directors and supervisors)	person	544	/
		The proportion of enterprise leaders (including directors and supervisors) being trained	%	100	/
		The average training time of enterprise leaders (including directors and supervisors)	hour	156.30	142.54
		Number of professional management trainees	person	3,800	4,887
		Number of professional management personnel	person	3,805	/
		Proportion of professional managers trained	%	99.87	/
		Average training time of professional managers	hour	104.62	81.05

Level 1 indicators	Level 2 indicators	Level 3 indicators	unit	2024	2023
Employee Rights and Interests	Development and Training	Number of professional and technical personnel trained	person	3,682	3,387
		Number of professional and technical personnel	person	3,730	/
		The proportion of professional and technical personnel trained	%	98.71	/
		The average training time of professional and technical personnel	hour	92.81	81.63
		Number of skilled personnel trained	person	16,689	15,867
		Number of skilled personnel	person	17,014	/
		The proportion of skilled personnel trained	%	98.09	64.53
		Average training time for skilled personnel	hour	97.29	83.28
	Employee Satisfaction	Employee satisfaction score	%	100	100
	Labor Disputes	Number of labor disputes	case	0	0
	Employee Turnover	Employee turnover rate	%	0.57	/
		Divided by the age structure:			
		Number of employees aged 24 and under who leave	person	16	25
		Number of departing employees aged 25-29 years old	person	38	43
		Number of departing employees aged 30-34 years old	person	41	47
		Number of employees leaving between 35 and 39 years old	person	34	26
		Number of departing employees aged 40-44 years old	person	8	5
		Number of departing employees aged 45-49 years old	person	4	4
		Number of departing employees aged 50-54 years old	person	1	0
		Number of departing employees aged 55 and over	person	1	0
		Number of employees leaving jobs by region:			
		Beijing	person	0	1
		Shandong	person	17	18
		Hubei	person	38	13
		Anhui	person	13	3

Level 1 indicators	Level 2 indicators	Level 3 indicators	unit	2024	2023
Employee Rights and Interests	Employee Turnover	Ningxia	person	0	0
		Sichuan	person	3	18
		Zhejiang	person	0	2
		Hebei	person	6	8
		Henan	person	16	18
		Guangdong	person	38	46
		Tianjin	person	6	2
		Shanxi	person	0	0
		Nei Monggol	person	2	0
		Chongqing	person	4	5
		Hunan	person	0	13
		other	person	0	3
ProductAnd Service Management	IPR	Number of patents applied	patent	873	/
		Number of patent applications for invention	patent	468	35
		Number of patent applications for utility models	patent	404	421
		Number of design patent applications	patent	1	3
		Number of authorized patent	patent	384	/
		Number of granted invention patents	patent	65	/
		Number of granted utility model patent	patent	318	/
		Number of design patents granted	patent	1	/
Supply Chain Security and Management	Supplier Vendor Management	Number of suppliers	company	3,199	2,296
		Chinese mainland number of suppliers	company	3,196	2,294
		Number of suppliers in Hong Kong, Macao and Taiwan regions	company	3	2
	Supply Chain Link Management	Number of major risks and impact events in the supply chain	case	0	0

Governance

Level 1 indicators	Level 2 indicators	Level 3 indicators	unit	2024
Governance Strategy and Organizational Structure	Organizational Composition and Function	Number of board members	person	12
		Number of doctoral degrees on the board	person	4
		Number of board members with a master's degree	person	7
		Number of board members with undergraduate and below education level	person	1
		Number of male directors	person	10
		Number of female directors	person	2
		Number of independent directors	person	4
		Number of non-independent directors	person	8
		Number of directors under: 30 years old (inclusive)	person	0
		Number of directors aged 30-50 years old (inclusive)	person	1
		Number of directors over 50 years old	person	11
		Number of board meetings	Times	12
		Number of meetings of the Board of Auditors	Times	6
		Number of meetings of the Compensation and Appraisal Committee	Times	2
		Number of Nominating Committee meetings	Times	4
		Number of strategy committee meetings	Times	4
		Number of board of supervisors	person	3
		Number of doctoral supervisors	person	0
		Supervisory Board Master's degree holders	person	1
		Supervisory Board undergraduate and below number	person	2
		Number of male members in the board of supervisors	person	3
		Number of female members in the board of supervisors	person	0
		Number of external supervisors	person	2
		Number of supervisors under 30 years old (inclusive)	person	0
		Number of supervisors aged 30-50 years old (inclusive)	person	0

Level 1 indicators	Level 2 indicators	Level 3 indicators	unit	2024
		Number of supervisors at the age and over 50 years old	person	3
		Number of meetings of the board of supervisors	Times	6
Commercial Activity	Anti-commercial Bribery and Anti-corruption	Duration of anti-bribery and anti-corruption training	hour	188
		Total number of people receiving anti-commercial bribery and anti-corruption training	person	86
		The proportion of total number of people receiving anti-commercial bribery and anti-corruption training	%	100
		Number of corruption litigation cases	case	0
Investor Relations and Shareholder Equity Management	Investor Relationship Management	Road show number	Times	6
		Number of investor meetings	Times	over 100 sessions
		Receiving investors	person-time	over 800 person-times
	Shareholders' Equity	Number of shareholders' meetings held	Times	5
		Attendance rate of general directors	%	100
	Information Disclosure	Number of periodic reports disclosed	report	16
		Number of provisional announcements issued	announcement	386

Indicator Index

Disclosure Index for the Shanghai Stock Exchange Self-Regulatory Guidelines for Listed Companies No. 14 - Sustainability Report (For Trial Implementation)	
Disclosure Requirements	Corresponding Report Sections (For undisclosed issues, provide a comprehensive explanation as per Article 7 of the Guidelines)
Climate Change Mitigation	Low-Carbon Operations, Pursuing Green Missions [Addressing Climate Change] Key Performance Indicators
Pollutant Emissions Control	Low-Carbon Operations, Pursuing Green Missions [Strengthening Environmental Management] Key Performance Indicators
Waste Management Practices	Low-Carbon Operations, Pursuing Green Missions [Strengthening Environmental Management] Key Performance Indicators
Ecosystem and Biodiversity Conservation	Low-Carbon Operations, Pursuing Green Missions [Advancing Environmental Protection] Based on the Company's ESG materiality assessment, this issue lacks financial materiality or impact materiality, and has not been disclosed in strict accordance with the specific requirements of the Shanghai Stock Exchange Self-Regulatory Guidelines for Listed Companies No. 14 - Sustainability Report (For Trial Implementation).
Environmental Compliance	Low-Carbon Operations, Pursuing Green Missions [Strengthening Environmental Management]
Energy Efficiency and Conservation	Low-Carbon Operations, Pursuing Green Missions [Optimizing Energy Utilization] Key Performance Indicators
Water Resource Management	Low-Carbon Operations, Pursuing Green Missions [Optimizing Energy Utilization] Key Performance Indicators
Circular Economy Initiatives	Low-Carbon Operations, Pursuing Green Missions [Optimizing Energy Utilization] Key Performance Indicators
Rural Revitalization Efforts	Progressing Together, Building a Better Future [Fulfilling Social Responsibilities] Key Performance Indicators
Social Contribution and Impact	Progressing Together, Building a Better Future [Fulfilling Social Responsibilities] Key Performance Indicators
Innovation-Driven Development	Progressing Together, Building a Better Future [Implementing Continuous Innovation] Key Performance Indicators
Ethical Considerations in Technology	Progressing Together, Building a Better Future [Implementing Continuous Innovation] Based on the Company's ESG materiality assessment, this topic lacks financial materiality or impact materiality, and has not been disclosed in strict accordance with the specific requirements of the Shanghai Stock Exchange Self-Regulatory Guidelines for Listed Companies No. 14 - Sustainability Report (For Trial Implementation).
Supply Chain Security Measures	Progressing Together, Building a Better Future [Ensuring Supply Chain Security] Key Performance Indicators
Fair Treatment of SMEs	Progressing Together, Building a Better Future [Ensuring Supply Chain Security] Key Performance Indicators
Product and Service Safety and Quality Assurance	Progressing Together, Building a Better Future [Enhancing Customer Service] Key Performance Indicators
Data Security and Customer Privacy Protection	Progressing Together, Building a Better Future [Implementing Continuous Innovation] Key Performance Indicators
Employee Welfare and Development	Progressing Together, Building a Better Future [Safeguarding Employee Rights] Key Performance Indicators
Due Diligence Processes	Based on the Company's ESG materiality assessment, this issue lacks financial materiality or impact materiality, and related content has not been disclosed in the Report.

Disclosure Index for the Shanghai Stock Exchange Self-Regulatory Guidelines for Listed Companies No. 14 - Sustainability Report (For Trial Implementation)	
Stakeholder Communication	About Huadian Power International[Materiality Assessment]
Anti-Bribery and Anti-Corruption Measures	Strengthening Foundations, Empowering Management Upgrade [Upholding Business Ethics] Key Performance Indicators
Anti-Unfair Competition Practices	Strengthening Foundations, Empowering Management Upgrade [Upholding Business Ethics] Key Performance Indicators
Self-Disclosed Issue: Party Building Leadership	Strengthening Foundations, Empowering Management Upgrade [Party Building-Led Development]
Self-Disclosed Issue: Shareholder Rights Protection	Strengthening Foundations, Empowering Management Upgrade [Corporate Governance System]

Disclosure Index for the ESG Special Report Reference Indicator System for Listed Companies Controlled by Centrally Administered State-owned Enterprises	
Strengthening Foundations, Empowering Management Upgrade	
Sustainable Development Management	G1.1; G.4.1; G.4.2
Party Building-Led Development	G.1.1; G.2.2
Corporate Governance System	G.1.1; G.1.2; G.1.3; G.3.1; G.3.2; G.3.3; G.4.1
Internal Control and Compliance Management	G.2.1; G.2.3; G.5.1; G.5.2
Upholding Business Ethics	G.2.2; G.2.3
Progressing Together, Building a Better Future	
Safeguarding Employee Rights	S.1.1; S.1.2; S.1.3; S.1.4; S.1.5
Implementing Continuous Innovation	S2.2; S.2.3
Ensuring Supply Chain Security	S.3.1; S.3.2
Enhancing Customer Service	S.2.2
Fulfilling Social Responsibilities	S.4.1; S.4.2; S.4.3; S.4.4

Disclosure Index for the ESG Special Report Reference Indicator System for Listed Companies Controlled by Centrally Administered State-owned Enterprises		
Low-Carbon Operations, Pursuing Green Missions		
Addressing Climate Change	E.3.1; E.3.2; E.3.4; E.5.1; E.5.5; E.5.4	
Strengthening Environmental Management	E.2.1; E.2.2; E.2.3; E.5.6	
Optimizing Energy Utilization	E.1.1; E.1.3; E.5.1; E.5.2	
Advancing Environmental Protection	E.4.1; E.5.1; E.5.4	
Key Performance Indicators	E.1.1; E.1.3; E.2.3; E.3.1; S.1.1; S.1.2; S.1.4; S.2.3; S.3.1; S.3.2; G.1.2	

SEHK ESG Indicator Index		
Issue	Content	2024 Index Reference
A1 Emissions	Policies and compliance with relevant laws and regulations on air and greenhouse gas emissions, discharges into water and land, and generation of hazardous and non-hazardous waste	Low-Carbon Operations, Pursuing Green Missions [Addressing Climate Change] [Strengthening Environmental Management] [Optimizing Energy Utilization] [Advancing Environmental Protection]
	A1.1 Types of emissions and respective emissions data	Low-Carbon Operations, Pursuing Green Missions [Strengthening Environmental Management] Key Performance Indicators
	A1.2 Scope 1 and Scope 2 greenhouse gas emissions and, where appropriate, intensity	Low-Carbon Operations, Pursuing Green Missions [Addressing Climate Change] Key Performance Indicators
	A1.3 Total hazardous waste produced and, where appropriate, intensity	Low-Carbon Operations, Pursuing Green Missions [Strengthening Environmental Management] Key Performance Indicators
	A1.4 Total non-hazardous waste produced and, where appropriate, intensity	Low-Carbon Operations, Pursuing Green Missions [Strengthening Environmental Management] Key Performance Indicators
	A1.5 Description of emissions targets set and steps taken to achieve them	Low-Carbon Operations, Pursuing Green Missions [Addressing Climate Change] [Strengthening Environmental Management]
	A1.6 Description of hazardous and non-hazardous waste handling methods, reduction targets, and steps taken to achieve them	Low-Carbon Operations, Pursuing Green Missions [Strengthening Environmental Management]
A2 Use of Resources	Policies on efficient use of resources, including energy, water, and other raw materials	Low-Carbon Operations, Pursuing Green Missions [Optimizing Energy Utilization]
	A2.1 Direct and/or indirect energy consumption by type in total and intensity	Low-Carbon Operations, Pursuing Green Missions [Optimizing Energy Utilization] Key Performance Indicators
	A2.2 Water consumption in total and intensity	Low-Carbon Operations, Pursuing Green Missions [Optimizing Energy Utilization] Key Performance Indicators
	A2.3 Description of energy use efficiency targets set and steps taken to achieve them	Low-Carbon Operations, Pursuing Green Missions [Optimizing Energy Utilization]
	A2.4 Description of water sourcing issues, water efficiency targets set, and steps taken to achieve them	Low-Carbon Operations, Pursuing Green Missions [Optimizing Energy Utilization]
	A2.5 Total packaging material used for finished products and, if applicable, with reference to per unit produced	Not Applicable

SEHK ESG Indicator Index		
Issue	Content	2024 Index Reference
A3 The Environment and Natural Resources	Policies on minimizing impacts on the environment and natural resources	Low-Carbon Operations, Pursuing Green Missions [Strengthening Environmental Management] [Optimizing Energy Utilization] [Advancing Environmental Protection]
	A3.1 Description of impacts of activities on the environment and natural resources and actions taken to manage them	Low-Carbon Operations, Pursuing Green Missions [Optimizing Energy Utilization] [Advancing Environmental Protection]
A4 Climate Change	Policies on identification and mitigation of climate-related issues	Low-Carbon Operations, Pursuing Green Missions [Addressing Climate Change]
	A4.1 Description of significant climate-related issues impacting the issuer and actions taken to manage them	Low-Carbon Operations, Pursuing Green Missions [Addressing Climate Change]
B1 Employment	Policies and compliance with relevant laws and regulations relating to compensation, dismissal, recruitment, promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination, and other benefits and welfare	Progressing Together, Building a Better Future [Safeguarding Employee Rights]
	B1.1 Total workforce by gender, employment type (full-time/part-time), age group and geographical region	Key Performance Indicators
	B1.2 Employee turnover rate by gender, age group and geographical region	Key Performance Indicators
B2 Health and Safety	Policies and compliance with relevant laws and regulations on providing a safe working environment and protecting employees from occupational hazards	Progressing Together, Building a Better Future [Safeguarding Employee Rights]
	B2.1 Number and rate of work-related fatalities in each of the past three years	Key Performance Indicators
	B2.2 Lost days due to work injury	Key Performance Indicators
	B2.3 Description of occupational health and safety measures adopted, implementation, and monitoring processes	Progressing Together, Building a Better Future [Safeguarding Employee Rights]
B3 Development and Training	Employee knowledge and skill enhancement policies; training initiatives	Progressing Together, Building a Better Future [Safeguarding Employee Rights]
	B3.1 Percentage of employees trained, categorized by gender and position (e.g., senior management, middle management)	Key Performance Indicators
	B3.2 Average training hours per employee, broken down by gender and position	Key Performance Indicators

SEHK ESG Indicator Index		
Issue	Content	2024 Index Reference
B4 Labor Standards	Child labor policies and adherence to relevant legislation	Progressing Together, Building a Better Future [Safeguarding Employee Rights]
	B4.1 Strategies to prevent child labor	Progressing Together, Building a Better Future [Safeguarding Employee Rights]
	B4.2 Procedures for addressing and rectifying non-compliance instances	Progressing Together, Building a Better Future [Safeguarding Employee Rights]
B5 Supply Chain Management	Policies for managing environmental and social risks within the supply chain	Progressing Together, Building a Better Future [Ensuring Supply Chain Security]
	B5.1 Supplier distribution by geographic region	Key Performance Indicators
	B5.2 Supplier engagement practices, number of suppliers subject to these practices, and methods of implementation and oversight	Progressing Together, Building a Better Future [Ensuring Supply Chain Security]
	B5.3 Protocols for identifying and managing environmental and social risks in the supply chain, including implementation and monitoring approaches	Progressing Together, Building a Better Future [Ensuring Supply Chain Security]
	B5.4 Strategies for promoting environmentally responsible products and services in supplier selection, including implementation and monitoring methods	Progressing Together, Building a Better Future [Ensuring Supply Chain Security]
B6 Product Responsibility	Policies and regulatory compliance regarding health and safety, advertising, labeling, and privacy in relation to products and services	Progressing Together, Building a Better Future [Enhancing Customer Service]
	B6.1 Percentage of products recalled due to safety or health concerns	Key Performance Indicators
	B6.2 Volume of product and service-related complaints and resolution procedures	Key Performance Indicators Progressing Together, Building a Better Future [Enhancing Customer Service]
	B6.3 Intellectual property protection measures	Progressing Together, Building a Better Future [Implementing Continuous Innovation]
	B6.4 Quality assurance and product recall protocols	Not Applicable
	B6.5 Consumer data protection and privacy policies, including implementation and monitoring mechanisms	Progressing Together, Building a Better Future [Implementing Continuous Innovation]
B7 Anti- corruption	Policies and compliance with anti-bribery, anti-extortion, anti-fraud, and anti-money laundering regulations	Strengthening Foundations, Empowering Management Upgrade [Upholding Business Ethics]
	B7.1 Number and outcomes of concluded legal cases regarding corrupt practices	Strengthening Foundations, Empowering Management Upgrade [Upholding Business Ethics] Key Performance Indicators
	B7.2 Corruption prevention measures, whistleblowing procedures, and their implementation and monitoring	Strengthening Foundations, Empowering Management Upgrade [Upholding Business Ethics]
	B7.3 Anti-corruption training initiatives	Strengthening Foundations, Empowering Management Upgrade [Upholding Business Ethics] Key Performance Indicators
B8 Community Investment	Policies on corporate activities benefiting the community	Progressing Together, Building a Better Future [Fulfilling Social Responsibilities]
	B8.1 Key areas of community contribution (e.g., education, environment, labor, health, culture, sports)	Progressing Together, Building a Better Future [Fulfilling Social Responsibilities]
	B8.2 Resources (financial and time) allocated to priority areas	Progressing Together, Building a Better Future [Fulfilling Social Responsibilities] Key Performance Indicators

Disclaimer

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