

2024 ESG

Environmental, Social and Governance Report

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About This Report

Report Summary

The China Coal Energy ESG Report 2024 is the environmental, social and governance report published by China Coal Energy Company Limited (the "ESG Report"), which mainly provides information in respect of, among other things, environmental protection, social contributions and corporate governance of the Company in 2024, and aims to enhance communication and contact with various stakeholders.

The Company has published 16 annual corporate social responsibility reports in aggregate since its first release in 2008. To further satisfy the information disclosure requirements for listed companies, the Company has issued its environmental, social and governance reports since 2021.



From 1 January 2024 to 31 December 2024. To increase the comparability of the report, certain contents may date back to previous years where applicable.

Frequency of Publication

The report is published annually.

Scope of Reporting

This report covers China Coal Energy Company Limited and its subsidiaries (branches).

Reporting Basis

This report has been prepared in accordance with the "Self-Regulatory Guidelines for Listed Companies on the Shanghai Stock Exchange No. 1-Regulated Operation", with reference to the "Environmental, Social and Governance (ESG) Reporting Guide" issued by the HKEX, the "Self-Regulatory Guidelines for Listed Companies on the Shanghai Stock Exchange No. 14-Sustainability Report (Trial)", the "Self-Regulatory Guidelines for Listed Companies on the Shanghai Stock Exchange No. 4-Sustainability Report Preparation", the "Corporate Sustainability Disclosure Standards-Basic Standards (Trial)" issued by the Ministry of Finance, and the "Sustainability Reporting Standards" (GRI Standards) issued by Global Reporting Initiative (GRI).

Source of Information

Financial data in this report were extracted from the audited annual report of China Coal Energy Company Limited (prepared in accordance with the PRC Accounting Standards), whilst other data came from internal data of the Company and other relevant statistics. China Coal Energy guarantees that this report does not contain any false representations, misleading statements or material omissions, and it will continuously improve the statistics of data indicators to provide more comprehensive and professional information.

Company Terminology

Short Form	Long Form
China Coal Group	China National Coal Group Corporation, the controlling shareholder of the Company
Company/ the Company/ China Coal Energy	China Coal Energy Company Limited
Pingshuo Group	China Coal Pingshuo Group Company Limited
Pingshuo Energy and Chemical Company	China Coal Pingshuo Energy and Chemical Company Limited
Shanghai Energy Company	Shanghai Datun Energy Resources Company Limited
Huajin Group	China Coal Huajin Energy Group Limited
Northwest Energy Company	China Coal Northwest Energy Chemical Company Limited
Ordos Energy Chemical Company	China Coal Ordos Energy Chemical Company Limited
Heilongjiang Coal Chemical	China Coal Heilongjiang Coal Chemical (Group) Co., Ltd.
Sales Group	China Coal Sales and Transportation Company Limited
Shaanxi Company	China Coal Shaanxi Energy & Chemical Group Company Limited
Equipment Company	China National Coal Mining Equipment Company Limited
Zhangjiakou Coal Mining Machinery Company	China Coal Zhangjiakou Coal Mining Machinery Company Limited
Beijing Coal Mining Machinery Company	China Coal Beijing Coal Mining Machinery Company Limited
Development Company	China Coal Development Company Limited
Finance Company	China Coal Finance Co., Ltd.

Access to the Report

This report is prepared in Chinese and English. The electronic version of this report can be downloaded on the website of China Coal Energy Company Limited: https:// www. chinacoalenergy.com.

ESG Statement from the Board

The Board of Directors of China Coal Energy is committed to strict compliance with the ESG governance requirements set forth by the stock exchanges where the Company are listed, fulfilling its decision-making and supervisory responsibilities regarding ESG matters.

The Company places great emphasis on ESG governance, with the Board of Directors overseeing the formulation of ESG-related strategies, policies, and objectives. ESG considerations are integrated into the Company's business operations and long-term development goals to ensure that ESG principles are deeply embedded in the corporate culture. Based on the Company's strategy, current management practices, and key concerns of stakeholders, we conduct comprehensive benchmarking against peer companies and continuously enhance our ESG performance. In adherence to regulatory requirements for ESG disclosures by listed companies, the Board of Directors reviews and discloses the annual ESG report. The Board places great emphasis on communication with stakeholders, actively soliciting opinions and suggestions through various channels, addressing concerns, and fostering mutual development between the Company and its stakeholders.

This report provides a comprehensive disclosure of the progress and achievements of China Coal Energy's ESG initiatives in 2024 and was reviewed and approved at the first meeting of the fifth session of the Board of the Company in 2025 on 21 March 2025.

Chairman's Statement

Dear Friends,

On behalf of the Board of Directors, I would like to extend my heartfelt gratitude for your long-standing trust, support, and partnership with China Coal Energy!

For China Coal Energy, 2024 has been a year of both challenges and opportunities, as well as a pivotal year in our journey towards highquality development. We have remained determined and steadfast in our efforts, guided by the Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era. We have thoroughly implemented the new energy security strategy of "Four Reforms and One Cooperation" and adhered to the development philosophy of "Efficiency Enhancement and Incremental Transformation. " Our efforts have focused on striking a balance between two critical priorities of "ensuring energy security" and "achieving a green and low-carbon transformation. " To this end, we have promoted "Dual Integration" at both the resource and market levels, exploring and developing a distinctive innovation framework of China Coal that integrates Internal Innovation Core + External Innovation Hub System concept. Additionally, we have accelerated the creation of the "Dual Counterbalancing" mechanism, actively contributing to and integrating into the new "dual circulation" development pattern. Through these efforts, we have injected strong momentum into the stable development of the economy and society, as well as the continuous improvement of people's well-being.

Forging Ahead with Innovation: Crafting an "Ecological Blueprint" for Green Mountains and Clear Waters

We have steadily advanced the adjustment of our energy structure and actively implemented the "Dual Integration" development model, combining coal and coal power, as well as coal power with renewable energy. At the same time, we have focused on establishing the China Coal model of multi-industry coupling, known as "coal-coal power-coal chemical-new energy. " Our key projects, including the Phase II Coal Chemical Project of Shaanxi Company and the 100,000 Tonnes/Year Liquid Sunlight Project of Ordos Energy Chemical Company, have commenced construction. Additionally, the National Large-Scale Ecological Restoration Project for Coal Mining Subsidence Areas and the National Third Batch of Smart Photovoltaic Pilot Projects, including the Coal Mining Subsidence Area Ecological Restoration + Aquavoltaics Project of Shanghai Energy, have been connected to the grid. These initiatives have provided robust support for the diversified development and transformation of the energy industry while serving as exemplary models for the sector.

We have proactively addressed climate change by resolutely implementing the requirements of the "dual carbon" goals. We have established and improved a carbon emission management system, actively identified risks and opportunities related to climate change, and strategically planned ahead. By scientifically mapping out carbon reduction pathways, we systematically advanced carbon emission management, carbon asset management, and carbon footprint management, etc. These efforts have enhanced our carbon governance efficiency, firmly steering us on the path of high-quality, green, and low-carbon development.

We have steadfastly adhered to the philosophy of green development, focusing on addressing key issues in the green transformation of the coal industry through technological breakthroughs, and empowering the traditional energy sector to transition toward sustainability with new quality productive forces. We have made solid progress in the safe and green mining of coal, as well as its clean and efficient utilization, with key performance indicators continuing to improve. Additionally, Nalinhe No. 2 Coal Mine and Yilan No. 3 Coal Mine have been newly designated as provincial-level green mines. Striving to achieve a harmonious balance between economic growth and environmental protection, we are dedicated to safeguarding our natural landscapes, collaboratively painting a vibrant ecological vision, and contributing to the construction of a beautiful China.

Strengthening the Foundation: Painting a "Masterpiece of People's Livelihood" for a Better Life

We have remained steadfast in upholding our national responsibilities, fully committed to ensuring energy security and supply. Our coal production reached a new record high, with an annual output of 137. 57 million tonnes of commercial coal, an increase of 3. 35 million tonnes year-on-year, and total sales of 284. 83 million tonnes. Our coal ochemical enterprises maintained stable operations, producing a total of 5. 69 million tonnes. Our equipment manufacturing enterprises have innovated business models, advancing the integrated sale of complete sets of products and full life-cycle equipment services, with total equipment output value reaching RMB10. 35 billion. Meanwhile, our power enterprises have optimized production scheduling and equipment management, taking concrete actions to safeguard national energy security and ensure the stable operation of the economy and society.

We have deepened the cultivation of an "Observing norms" Safety Culture, continuously improving our safety management system, strengthening the implementation of comprehensive safety responsibilities, and proactively identifying and mitigating risks. Intelligent monitoring and early warning systems for coal mine and coal chemical safety risks have been successfully established. We have consistently increased investment in safety and deepened the development of standardized and intelligent safety production systems. Eleven coal mines have attained the national first-class safety standard, and two pilot projects for "Industrial Internet + Hazardous Chemical Safety Production" in coal chemical plants have been successfully completed. Additionally, we have actively promoted the construction of "smart power plants", further enhancing our safety assurance capabilities and solidifying the foundation of energy security.

We have long upheld the philosophy of "giving back to society and sharing value", deepening the integration of poverty alleviation achievements with rural revitalization. We have actively engaged in public welfare initiatives and volunteer services, etc., playing an instrumental role in various emergency rescue operations, including local mine rescues, fire suppression, and flood control and drainage efforts. We also prioritize employee development and well-being, demonstrating our commitment to corporate social responsibility as a central enterprise through concrete actions.

China Coal Energy Company Limited

Wang Shudong, Chairman

Excellence in Governance: Building a "Vanguard Force" for Sustainable Development

We are committed to innovation in energy technology, leveraging the unique advantages of China Coal's Internal Innovation Core + External Innovation Hub System technology system to systematically advance the development of innovation platforms. We have accelerated breakthroughs in key core technologies. The world's first 8-megawatt ultra-long-distance intelligent scraper conveyor has successfully undergone trial operation, while China's first BMX fully digital intelligent control system, equipped with the Mine-Harmony Platform, has been introduced to the market. We have made solid progress in executing major national science and technology initiatives. Major tasks assigned by the National Energy Administration have been successfully completed with high quality, providing critical technological support for the development of a new energy system and ensuring national energy security.

We have optimized and enhanced our corporate governance framework, firmly integrating the Party's leadership into all aspects of corporate governance and embedding Partybuilding throughout the entire process of enterprise reform and development. High-quality Party-building serves as a guiding force and safeguard for the Company's high-quality development. We have consistently enhanced operational quality through a series of measures, including refined cost management and efficiency improvement initiatives, achieving a total annual profit of RMB31. 580 billion. We have also continuously strengthened information disclosure, expanded multi-channel communication with stakeholders, and prioritized shareholder returns. For the first time, we implemented both special dividends and interim dividends, with cumulative dividends exceeding RMB40 billion since our listing. We have continuously intensified internal reforms, successfully achieving our annual reform enhancement targets ahead of schedule. Furthermore, we have reinforced legal and compliance management, strengthened our risk management system, advanced the development of a comprehensive logistics network, optimized supply chain management, and enhanced operational efficiency and market competitiveness.



We look forward to working closely with our stakeholders, fostering consensus, and pooling our strengths to contribute China Coal's wisdom and capabilities to advancing modernization with Chinese Characteristics and promoting global sustainable development.

> China Coal Energy Company Limited Wang Shudong, Chairman March 2025

About China Coal Energy

Company Overview

China Coal Energy Company Limited was incorporated as a joint stock company and was exclusively sponsored by the China National Coal Group Corporation on 22 August 2006, with its headquarters located in Beijing, China. The Company was successfully listed in Hong Kong in December 2006, and its A shares were issued in February 2008.

China Coal Energy focuses on coal, coal chemical, coal mining equipment, and power generation as its core businesses. Anchored in key regions such as Shanxi, Inner Mongolia, Shaanxi, Jiangsu, and Xinjiang, the Company follows a development strategy of "Efficiency Enhancement and Incremental Transformation." It is committed to building a world-class energy enterprise characterized by "multi-energy complementation, green and low-carbon, innovation demonstration, and modern governance."

Coal Industry

The Company boasts abundant coal resources and diversified coal products as well as modern mining, coal washing and compounding technologies and techniques. Mining areas in Pingshuo, Shanxi Province, and Hujirt, Ordos of Inner Mongolia, primarily developed by the Company, are important thermal coal production bases in the PRC. Xiangning mining area in Shanxi, where Wangjialing Coal Mine is located, is the production base of high-quality lowsulfur, ultra-low-phosphorus coking coal in the PRC. Jincheng mining area in Shanxi, where Libi Coal Mine is located, is the production base of quality anthracite in the PRC. The major coal production bases of the Company have well-established coal transportation networks connected to coal ports, creating favorable conditions for the Company to sharpen competitive edges and achieve sustainable development.

Coal Chemical Industry

The Company has focused on the development of modern coal chemical such as coal-to-urea and coal-to-carbamide operations. The coal chemical business is mainly located in Inner Mongolia, Shaanxi, Shanxi, etc. By maintaining safe, stable, long-term, fully loaded and optimum operation of the equipment, the Company's major production and operation indicators have remained at industry leading levels.

Coal Mining Equipment Manufacturing Industry

The Company's coal mining equipment manufacturing industry takes the lead nationwide with the capability to develop, manufacture and supply comprehensive coal exploitation equipment. The technologies and market share of complete set of intelligent coal mining platform with transportation, support and mining equipment take a leading position in China.

Power Generation Industry

Mainly located in provinces such as Shanxi, Jiangsu, Xinjiang and Inner Mongolia, the Company adheres to the guideline and concept of "Dual Integration" and follows the principles of "determining electricity with coal, developing quality projects" to commence the development of its energy industry projects. Energy safety is secured and green transformation of the Company is promoted. Meanwhile, the Company conducts diversified and innovative exploration of its energy industry into other directions, promotes the combination of renewable energy and chemical, realises the local consumption of renewable energy and formulates a development mode based on industrial parks and bases.



Corporate Culture

China Coal Energy's logo consists of two letters of "C", which denotes "CHINA" and "COAL" respectively. The two "C"s form the Chinese character "中", in which the Chinese Character and English letters are joined together to create a vivid image. The combination of the trapezoidal C and the elongated C resembles a ring of light emanating from an old miner's lamp. The shape of a Chinese lantern is formed on the outer contour, which signifies auspiciousness, stability and dignity and conveys strong oriental charm. The base color of the logo is purple blue, the color of coal or gas that combusted in the fullest and the most environmental-friendly way. The logo integrates English, Chinese and a variety of symbols, reflecting the Company's style as a diversified and international conglomerate.



China Coal Vision

To Build a World-class Energy Enterprise

To create a world-class energy enterprise with multi-energy complementarity, green and low-carbon solutions, innovative demonstrations, and modern governance systems.

China Coal Mission

To Ensure Energy Security, Lead Industry Development, and Create a Better Life

To ensure energy security:

Implement the new energy security strategy of Four Reforms and One Cooperation to ensure stable energy supply and contributing to the development of a strong energy nation.

Lead industry development:

To be a role model in safe, green, and intelligent extraction of coal, and a pioneer in clean, efficient, and low-carbon utilization of coal.

Create a better life:

To provide clean energy for economic and social development, and meet people's needs for a better life.

China Coal Spirit

Loyalty, Pragmatism, Innovation, and Endeavor

Loyalty:

Loyal to the Party, the country, the people, and the China Coal cause.

Pragmatism:

Truth-seeking and pragmatic; tell the truth, take concrete measures, and focus on effectiveness.

Innovation:

Encourage the liberation of thoughts, bold explorations, adherence to scientific thinking, and enhancement of innovation capabilities.

Endeavor:

Strive in unity and forge ahead with pioneering and enterprising spirit, embrace challenges on the new journey and make contributions in the new era.

China Coal Core Values

Safe, Green, Clean, Efficient

Practice commitment to safe development, implement the twin goals of carbon peak and carbon neutrality, promote clean and efficient coal utilization, and advance green and low-carbon energy transition.

Organizational Structure



Organizational Chart of China Coal Energy Company Limited

General Office (Office to the Party Committee)		China Coal Pingshuo Group Company Limited	100%
Securities Affairs Department		 Shanghai Datun Energy Resources Company Limited	62.43%
Party Construction Work Department		 China National Coal Mining Equipment Company Limited	100%
 Department of Plan and Development (International Collaboration & Development Department)		 China Coal and Coke Holdings Limited	100%
Department of Human Resources		 China Coal Huajin Energy Group Limited	51%
General Office of Reform		Ordos Yihua Mining Resources Company Limited	55. 16%
 Finance Department			55. 1070
Department of Technology and Innovation		Wushenqi Mengda Mining Company Limited	66%
	Subsidiaries	China Coal Hami Coal Industry Company Limited	100%
Department of Safety, Health and Environmental		 Shanxi Puxian China Coal Jinchang Mining Company Limited	51%
Protection		 Shanxi Puxian China Coal Yushuo Mining Company Limited	63%
Legal and Compliance Department			
Audit Department		China Coal Xinjiang Coal Electricity Chemical Company Limited	60%
Department of Coal Business (Production and Operation Control Centre)		 China Coal Heilongjiang Coal Chemical Company Limited	100%
Department of Coal Chemical Business (Department of Coal Chemical Safety Supervision, Coal Chemical Research Institute)		 China Coal Finance Co., Ltd.	91%
Department of Equipment and Business		 China National Coal Development Company Limited	100%
Electric and New Energy Service Department		 Ordos Yinhe Hongtai Coal Power Company Limited	78.84%
File Centre		 Shanxi Zhongxin Tangshangou Coal Industry Company Limited	80%
Promotion Centre		 China Coal Sales and Transportation Company Limited	100%
Social Security and Medical Administration Centre		 Datong China Coal Export Base Development Company Limited	60%
Technology and Information Support Centre			10004
Financial Shared Operations & Management Center		China Coal Shaanxi Energy Chemical Group Co., Ltd.	100%
		China Coal Northwest Energy Co., Ltd.	100%
		 China Coal Logistics (Qinhuangdao) Co., Ltd.	100%

Social Recognition

2024 Major Honors and Recognitions



Gold Award at the International Convention on Quality Control Circle (ICQCC) Shanghai Energy Company ICQCC China Indu Outstanding Collective of Central Enterprises Shaanxi Company Finance Company Operations and Co

SASAC of the State Council and Ministry of Human Resources and Social Security

National-level Specialized, Sophisticated, and Innovative "Little Giant" Enterprise

Electrical Company under Equipment Company

Ministry of Industry and Information Technology

National Demonstration Enterprise for Safety Culture Construction

Beijing Coal Mining Machinery Company

China Association of Work Safety

"May 4th" Red Flag Youth League Committee of the National Coal Industry Youth League Committee of Mengda Mining, Northwest

Company

National Coal Industry Youth League Guidance and Promotion Committee 2023 Advanced Enterprise in Energy Conservation and Emission Reduction in the Nitrogen Fertilizer and Methanol Industry

Ordos Energy Chemical Company

China Nitrogen Fertilizer Industry Association

2024 Typical Case of IoT-Enabled Industry Development

Operations and Control Center of Shaanxi Company

Ministry of Industry and Information Technology

2024 Safety Culture Construction Practice Enterprise

Zhangjiakou Coal Mining Machinery Company

Department of Emergency Management of Hebei Province

Digital Pioneer Award - Typical Case of Supply Chain Digitalization in Energy Enterprises (2024)

Development Company

China Electronics Enterprises Association

Special Prize at the First National Intelligent Innovation Competition for Coal Mining Faces

Nalinhe No. 2 Coal Mine, Northwest Company Shaanxi Company's Dahaize Coal Mine

China National Coal Association

ESG Governance

Materiality Assessment

In alignment with the "Self-Regulatory Guidelines for Listed Companies on the Shanghai Stock Exchange No. 14 – Sustainability Report (Trial)" (hereinafter referred to as the "Guidelines"), the Company has developed a scientific evaluation approach tailored to its industry and operational characteristics. Based on ESG management principles, we systematically assess material topics, identify the impact of sustainability-related risks and opportunities on the Company, and implement targeted management actions and disclosures accordingly.



Ultimately, based on the topics specified in the "Guidelines" and in consideration of industry-specific characteristics, the Company has developed its 2024 ESG Materiality Matrix.





2024 China Coal Energy Materiality Investigation

E – Environmental S – Social G – Governance		
 In Response to Climate Change Pollutant Emissions Waste Management Ecosystem and Biodiversity Protection Environmental Compliance Management Energy Utilization Utilization of Water Resources 	 9 Rural Revitalization 10 Social Contributions 11 Innovation-Driven Development 12 Supply Chain Security 13 Fair Treatment of SMEs 14 Product and Service Safety & Quality 15 Work Safety 16 Data Security & Customer Privacy 	
Circular Economy	Protection Employees	

Note 1: Following independent identification, "work safety" has been recognized as an industry-specific topic and designated as one of the key material topics for 2024.

Note 2: After careful evaluation, the Company has determined that its current research, development, and technological applications do not involve ethically sensitive areas. In accordance with the materiality principle of the "Guidelines", the Company believes that technology ethics issues do not constitute a material impact at this stage and therefore will not be specifically disclosed. However, the Company will continue to monitor technological developments and regulatory changes.

Disclosure of Four Key Elements

Governance

We actively explore an ESG governance model tailored to the Company's needs, establishing a three-tier ESG governance framework covering "decision-making, management, and execution." To further enhance our ESG governance structure, we developed the "China Coal Energy's Manual on ESG Management System" and the "China Coal Energy's Manual on ESG Indicators and System. "Based on the Company's ESG governance priorities, we formulate implementation strategies and action plans, integrating ESG-related initiatives into the daily operations of various functional departments and business units.

ESG Governance Structure of China Coal Energy

Decision-Making Level	The Board of Directors serves as the highest authority for ESG matters, responsible for analyzing and monitoring domestic and international industry trends and ESG-related policies. It provides guidance on and approves the Company's ESG strategy, policies, and objectives, supervises the assessment of ESG-related impacts, risks, and opportunities, and receives reports from management on ESG matters. It also regularly monitors progress toward ESG-related targets, offers guidance on ESG implementation, and reviews the Company's ESG reports.
Management Level	The Company's executive management serves as the managerial body responsible for organizing the formulation of ESG strategies, institutional development, integration of ESG principles into management, innovation in ESG practices, information disclosure, etc. while reporting to the decision-making body. It also coordinates the identification, assessment, and management of material ESG topics, providing recommendations for review and oversight by the decision-making body. Additionally, it determines and manages the allocation of costs and resources necessary for identifying, mitigating, managing, and monitoring ESG-related impacts, risks, and opportunities.
Execution Level	The Company's various departments and affiliated entities constitute the execution level, responsible for the designated management of ESG topics and regularly reporting progress to the management level. They are also tasked with ESG-related data collection and analysis, ESG report preparation, as well as formulating stakeholder engagement plans and organizing stakeholder communication activities.

China Coal Energy's ESG Governance Advancement

Conducting ESG Training. China Coal Energy actively built an ESG learning and exchange platform. Internally, the Company organized ESG training sessions through conferences, expert lectures, and other structured programs to systematically enhance employees' ESG awareness and professional competence. Externally, the Company actively participated in ESG training programs, seminars, and forums organized by the SASAC of the State Council, industry associations, and professional institutions, continuously learning industry best practices to strengthen ESG management capabilities.

Advancing ESG Practices. The Company organized ESG excellent case selection activities to enhance enterprise ESG awareness and execution capabilities. It encouraged key subsidiaries with the

necessary resources to publish corporate social responsibility (CSR)/ ESG reports on a regular basis. Additionally, the Company deepened ESG topic research, exploring ESG concepts, connotations, objective setting, and implementation pathways specific to the energy industry, thereby contributing to enterprise sustainable development.

Enhancing ESG Disclosure. Since publishing its first CSR report in 2008, China Coal Energy has released CSR/ESG reports for 16 consecutive years. Starting in 2021, the Company has issued an annual ESG (Environmental, Social and Governance) report and has been included in the "Top 100 State-owned Enterprise in ESG" for four consecutive years, ranking the 30th in 2024.

ESG Recognitions in 2024

 Recognized as an Outstanding Sustainable Development Practice Case by the China Association for Public Companies in 2024



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- Honored by the China National Coal Association as an Outstanding Enterprise in Coal Industry Social Responsibility Reporting and selected for the "Outstanding Social Responsibility Practice Cases" publication
- The case "A New Era of Carbon Neutrality Transforming 'Black Gold' into Green Energy" was recognized as an Outstanding Case in the "Blue Book of Central Enterprise Social Responsibility (2024)"

• Ranked among the Top 100 Sustainable Development (ESG) Listed Companies in China's Energy Sector, as evaluated by the China Energy Research Society in 2024



 Recognized as an Outstanding Enterprise in Key Industries in the "Blue Book of Corporate Social Responsibility (2024)" and awarded the "Responsible Enterprise Award" by the Responsibility Whale Awards



- The case "An Ecological Answer Written on Mining Land

 Exploring Ecological Restoration and Biodiversity
 Conservation in the Pingshuo Mining Area" was included
 in the "2024 ESG Excellence Practice Report" by the China
 Enterprise Reform and Development Society
- The case "The Pingshuo Model: Transforming Mines into Green Hills" won the 2024 ESG Pioneer Case Award from China National Radio's Corporate Social Responsibility Excellence Program

Strategy

ESG Strategy

Leading green development, upholding social responsibility, and achieving governance excellence



Management of Impacts, Risks, and Opportunities

Leveraging its risk management and internal control system, the Company conducted an annual enterprise-wide risk identification and assessment on an annual basis while also performing ad hoc risk evaluations for specific projects. This proactive approach enabled the Company to effectively identify, prevent, and mitigate risks while actively seizing opportunities, safeguarding its strategic transformation and high-quality development.

Risk Identification and Assessment	 Identify internal and external risks arising from business activities. Conduct reasonable quantitative or qualitative assessments of risks based on severity, duration, and probability. Prioritize risks based on evaluation results and highlight key risks requiring special attention.
Risk Monitoring and Management	• Develop risk management strategies and solutions based on risk categories and severity levels. Monitor, analyze, issue early warnings, and report on risk management performance in alignment with the Company's operational realities.
Risk Mitigation and Response	 Implement risk prevention and mitigation measures across all stages of business operations. Apply a combination of risk avoidance, reduction, sharing, and acceptance strategies to effectively control potential risks. Foster a forward-looking risk management approach to transform risks into opportunities, ensuring a closed-loop risk management cycle that continuously enhances the Company's risk management capabilities.

China Coal Energy's Impact, Risk, and Opportunity Management Process

Goals and Indicators

The Company is committed to driving coordinated and sustainable economic, social, and environmental development. To this end, it has prepared the "China Coal Energy's Manual on ESG Management System", which set clear goals for key ESG issues. These goals served as a management guidepost, driving quality and efficiency improvements. The Company also conducted regular assessments and dynamic revisions to continuously enhance its value creation capabilities, laying a solid foundation for high-quality development.

Environmental Goals

- Climate Action: Establish a China Coal's characteristic model of multienergy integration, diversified supply, and multi-point support; accelerate key low-carbon transition initiatives; implement major energy-saving and carbon reduction projects; and remain steadfast in pursuing a green, lowcarbon, and high-quality development path.
- Resource Utilization and Circular Economy: Advance green manufacturing, achieve closedloop sustainability in production and distribution, and maximize the comprehensive utilization of mine water, coal mine methane, and associated coal-based resources. Develop an energy-saving and environmentally friendly integrated utilization industry, significantly improving energy and resource efficiency.
- Pollution Control and Ecosystem Protection: Strengthen the ecological and environmental protection management mechanism, ensure no occurrence of major and above sudden environmental incidents, reduce ecological and environmental impacts, and further advance the development of green mines and green factories.

Social Goals

- Energy Supply Security: Ensure stable and orderly coal and power supply, strictly implement coal price policies, and effectively leverage coal's foundational role in energy security and China Coal Energy's role as the primary force in energy supply, thereby delivering robust energy security to underpin national economic and social development.
- Work Safety: Foster a "Observing norms" Safety Culture, comprehensively enhance intrinsic safety standards, eliminate major and above accidents, effectively prevent and curb minor incidents, and achieve industry-leading safety management.
- Product and Service Quality & Safety: Deliver high-quality products and services, precisely align with customer needs, and safeguard consumer rights.
- Sustainable Supply Chain: Deepen the development of modern industrial chain leadership, promote effective alignment and coordinated operation of upstream and downstream production, supply, and sales, ensure the security and stability of the supply chain, establish a green supply chain management system, and enhance the overall value creation capacity of the industrial and supply chains.
- Employee Development: Optimize employee growth and wellbeing programs, protect employees' legal rights, and provide a safe, healthy, inclusive, and equitable workplace. Support employee skill development, fostering harmonious growth among the enterprise, employees, and society.
- Rural Revitalization & Social Responsibility: Actively give back to society by participating in public welfare initiatives, supporting rural revitalization, disaster relief, and community development, and demonstrating China Coal Energy's commitment as a central enterprise.

Governance Goals

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- Innovation-Driven Development: Continuously improve the technological innovation system, expand the pool of scientific talent, increase R&D investment, enhance the level of technological output, drive digital transformation, and consistently strengthen innovation and competitiveness.
- Sustainable Governance: Continuously enhance the corporate governance structure, highlight the guiding role of Party building, solidly advance the development of modern state-owned enterprise systems with Chinese characteristics, fully implement the action plan for deepening reforms, actively integrate sustainable development principles into all aspects of corporate governance systems and processes, adhere to transparent operations, and protect investor rights.
- Responsible Business Practices: Uphold the principle of comprehensive rule of law in corporate governance, comply with the laws and regulations of China, the countries (regions) where operations are conducted, and overseas listing jurisdictions, as well as international standards of conduct. Adhere to business ethics, respect intellectual property rights, and maintain a zerotolerance policy toward bribery, corruption, and unfair competition.

Stakeholder Communication

The Company established a regular stakeholder engagement mechanism, encompassing a diverse range of channels such as regional client symposiums, media and investor research initiatives, expert consultations, and internal feedback collection. This enabled the continuous gathering and integration of stakeholder input. These valuable insights were systematically incorporated into the optimization of the Company's ESG strategy and the refinement of its implementation. Through a closed-loop system of "collection–analysis–response–improvement," the Company continually enhanced its ESG practices, ensuring that its sustainable development aligns with stakeholder expectations.

Stakeholders	Concerns and Expectations	Responses	Engagement Methods & Channels
Government & Regulatory Authorities	 Energy security Regional economic development Preservation and appreciation of state-owned assets Legal and compliant operations 	 Ensure stable energy supply Drive regional economic growth Operate in compliance with laws and regulations Timely and full tax payment 	 Working meetings Information reporting Internal reports Regulatory inspections
Shareholders & Investors	 Long-term value creation Operational risk management Climate change response Transparent corporate operations 	 Strengthen market value management Enhance dividend distribution mechanisms Improve information disclosure Strengthen risk control 	 Periodic reports & major announcements Performance briefings & roadshows Monthly production and operations briefings Routine investor communications SSE e-Interaction platform
Customers	 High-quality products & services Contract fulfillment assurance Ethical business conduct 	 Strictly control product quality Optimize customer service Reinforce integrity in business practices 	 Online service platform Customer hotline Customer visits & symposiums Customer satisfaction surveys
Suppliers & Business Partners	 Fair cooperation mechanisms Timely payment settlement Responsible supply chain 	 Foster win-win partnerships Ensure contract compliance Implement transparent procurement practices Promote industrial chain development 	 Industry associations, forums, and events Work meetings, training, and discussions Public disclosure of procurement information China Coal Supply Chain Platform
Employees	 Protection of fundamental rights Competitive compensation & benefits Career development opportunities Health and safety protection 	 Safeguard employee rights Enhance training programs Strengthen occupational protection Improve employee well-being 	 Regular training Employee representative meetings Chairman's mailbox Employee sentiment surveys Recreational & cultural activities
Communities & General Public	 Climate change response Environmental compliance management Ecological restoration achievements Philanthropy & public welfare initiatives Rural revitalization projects Employment generation 	 Promote green transformation development Advance ecological conservation Strengthen resource conservation Participate in disaster relief and crisis response Actively support and assist those in need 	 Public statements & commitments SOE Open Day Community engagement Charitable initiatives Corporate website & WeChat official account Media engagement

Special Topic: Data Presentation of 2024

Environmental Performance

Green Initiatives

Environmental protection investment:



Recognized as a national green mine:

5 sites

Recognized as a provincial green mine:

5 sites

Energy Efficiency

Total comprehensive energy consumption:

11.5 million tonnes



down

Comprehensive energy consumption per RMB10,000 of output value

1.200 tonnes standard coal / RMB10,000

Freshwater consumption per RMB10,000 of output value:

7.29 tonnes / RMB10,000

Emission Reduction

The sulfur dioxide emissions decreased by

162 tonnes

compared to the previous year,

The nitrogen oxide emissions decreased by

12/ tonnes

compared to the previous year,

The amount of smoke and dust emissions decreased by

187 tonnes compared to the previous year, decrease

decrease 9.5 %YOY

decrease **3.8**%yoy

Circular Economy

Water recycling rate:

98.44%

Comprehensive utilization rate of mine water:



Comprehensive utilization rate of coal gangue:

95.3%

Recycling rate of packaging materials:

100 %

Social Performance

Safety

Investment in safety production:

RMB 3.229 billion

Investment in workplace liability insurance:

RMB 21.3565 million

Sharing

Total investment in rural revitalization and social welfare:



Governance Performance

Efficiency

Board members:

7

Transparency

Shareholders' meetings convened: **2** Safety risk prevention training coverage:

90.5%

100% coverage for high-risk units

Various assistance projects implemented:

26 projects

Participation in

326

emergency rescue operations, including local mine rescues, fire suppression, and flood control and drainage efforts,

Quality

0

Major product quality incidents: Ω

Customer complaints, recalls, and returns:

benefiting nearly

30,000 individuals

mobilizing a total of

2,558 personnel

Employee Care

Total workforce:

46,452 employees

Cultural and recreational activities organized:

262 events

Occupational health training sessions:

1,104 sessions

Employee assistance fund disbursed:

RMB 5.48 million



1 including female

director

Investor engage-

ment events:

134

3 independent directors

14 projects

recognized by the China National Coal Association for "Modern Management Innovation Achievements in the Coal Industry"

Innovation

R&D investment:

R&D personnel:



2,213 employees

Win-Win Partnerships

Total number of suppliers:

164,594

Public procurement rate:

98.69%

investors

reaching nearly



15

consecutive years of A-rating for information disclosure from the Shanghai Stock Exchange

21

Coexistence Committed to Green Transition

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China Coal Energy is deeply committed to implementing Xi Jinping's Thought on Ecological Civilization and firmly upholding the national "dual carbon" strategy. Adhering to a development approach focused on "Efficiency Enhancement and Incremental Transformation," the Company actively explored an integrated "coal-coal power-coal chemical-new energy" industrial model that synergized multiple sectors across the industrial and value chains. It continuously improved climate governance mechanisms, optimized climate risk management, strictly controled waste emissions, and maximized resource utilization efficiency. By advancing energy conservation, emissions reduction, and pollution control, China Coal Energy was steadfast in its commitment to a green, low-carbon, and high-quality development path. As a central enterprise, it took on the responsibility of pioneering innovative pathways and demonstration models for energy transition of modernization with Chinese characteristics.





In Response to Climate Change

Guided by the national "dual carbon" strategy, China Coal Energy leveraged its industrial structure to accurately assess and proactively respond to climate-related risks and opportunities. Anchored in innovation-driven development, the Company systematically planed its carbon reduction pathways, spearheading the green and low-carbon transformation of the energy and coal industries.

Disclosure of Four Key Elements

Governance

China Coal Energy placed great emphasis on climate governance, actively exploring a model tailored to its climate governance model. The Company established a three-tier governance framework spanning "decision-making, management, and execution": Decision-making level: The Board of Directors was responsible for strategic leadership and top-level design. Management level: The executive team oversaw system development and coordination. Execution level: Various departments and affiliated entities of the Company focused on technological innovation and value realization. Through vertical integration across all three levels and horizontal collaboration, the Company achieved a closed-loop climate risk governance system that seamlessly integrated "strategy, execution, and assessment."

Strategy

China Coal Energy was resolute in implementing the Carbon Dioxide Peaking and Carbon Neutrality policies set forth by the Central Committee of the Communist Party of China and the State Council. It incorporated climate action into its corporate strategy, accelerating initiatives in low-carbon transformation key tasks such as industrial decarbonization, green and low-carbon energy transition, resource conservation and efficient utilization, green, low-carbon, and circular economy transformation, innovation in green and low-carbon technologies, green supply chain management, enhancement of carbon sequestration capabilities, and capacity-building for green and low-carbon development. The Company remained steadfast in pursuing a high-quality development path characterized by green and low-carbon practices.



Management of Impacts, Risks, and Opportunities

China Coal Energy actively aligned with the national "dual carbon" goals, conducting in-depth assessments of how climate factors affected its operations and production. It identified and mitigated physical risks and transition risks, implementing robust response measures to enhance climate resilience and strengthen risk management capabilities. By doing so, the Company fortified the foundation for sustainable development.

Risk Type		Risk Description	Risk Impact	Countermeasures
Physical Risks	Acute Risks	Natural disasters such as typhoons, heavy rain, floods, and droughts, as well as extreme heat and cold weather events	 Flooding in low-lying areas, slope collapses, increased equipment failure rates Disruptions in transportation and supply chains, heightened risks for underground and outdoor operations, impacting production Increased energy consumption Higher frequency of fire, frost damage, and other accidents 	 Monitor extreme weather warnings and develop emergency response plans to enhance disaster resilience Strengthen occupational safety measures for frontline workers Improve resource utilization efficiency and optimize energy-saving and environmental protection facilities Conduct climate risk assessments before selecting new operational sites
	Chronic Risks	Long-term risks such as prolonged droughts and permafrost thawing	 Water shortages affecting water- intensive industries Declining ecological water levels, vegetation degradation, and rising land reclamation costs Ground collapse and road damage in high-altitude mining areas due to permafrost thawing 	 Improve water resource utilization efficiency, phase out high water- consuming processes, and enhance water conservation awareness Promote drought-resistant vegetation restoration techniques Increase investment in extreme weather defense infrastructure and equipment
Transition Risks	Policy and Regulatory Risks	Stricter government policies and regulations to combat climate change	 More stringent greenhouse gas emission restrictions Existing equipment and processes may face production cuts, shutdowns, or require technological upgrades Declining coal demand 	 Stay updated on climate change policies and proactively ensure regulatory compliance Expand renewable energy development Promote the adoption of carbon reduction technologies
	Carbon Market Risks	The gradual refinement of the carbon trading market, stricter carbon allowance allocations, and rising carbon trading prices	 Potential need to purchase additional carbon allowances to meet production needs Increased carbon compliance costs 	 Strengthen carbon asset management and actively participate in green power and green certificate trading Ensure compliance with carbon quota obligations
	Low-Carbon Technology Risks	Growing demand for low- carbon retrofitting and energy-efficient equipment	 Increased investment in research and facility upgrades, leading to higher operating costs 	 Build a high-caliber scientific and technological talent pool Advance key technological breakthroughs and innovations in low- carbon and energy-efficient solutions
	Market Demand Shift Risks	The market may increasingly favor low- carbon products and services	 Declining coal demand Intensified market competition 	 Optimize industrial layout and energy structure Integrate climate-related factors into investment decisions Increase the development and production of green products, providing clean and low-carbon energy solutions
	Stakeholder Concerns and Risks	Investors, customers, and the public are increasingly focused on climate change issues	• Failure to proactively respond to climate change-related concerns may lead to skepticism from stakeholders and generate adverse impacts	 Promote green and low-carbon transformation while expanding the new energy sector Enhance the level and transparency of climate change-related information disclosure

Opportunity Type	Opportunity Description	Countermeasures
Market Opportunities	Explore new markets or emerging asset classes to diversify business operations	 Accelerate the deployment of the new energy industry and promote the transformation of industrial and energy structures Strengthen carbon asset management and actively participate in carbon market trading
Technological Opportunities	Carbon reduction initiatives drive technological innovation, leading to lower emissions, improved energy efficiency, reduced production costs, and enhanced competitiveness	 Increase investment in research and development of clean energy and low-carbon technologies; leverage technological advancements to achieve energy conservation, carbon reduction, and pollution mitigation with synergistic benefits; promote clean energy substitution and build a green, low-carbon enterprise
Product and Service Opportunities	Growing demand for green products and low-carbon energy services presents significant potential for the Company in areas such as renewable energy power, clean coal conversion, and modern coal chemical industries	• Align with policy directions and invest in green and low-carbon projects; explore the application of new technologies, equipment, and processes; provide cutting-edge green and low-carbon energy solutions while expanding the portfolio of green products and services
Influence Opportunities	Climate change is a global challenge. Proactively addressing climate change and advancing the clean energy transition can enhance corporate brand image	• Actively fulfill social responsibility by implementing climate change initiatives and supporting the research and development of green and low-carbon technologies. Demonstrate the Company's proactive attitude and actions in addressing climate change to stakeholders, thereby enhancing its social reputation and influence, and gaining the trust and support of the public and investors

Indicators and Targets

The Company actively explored the optimal path to peak carbon emissions and advancing its carbon peaking initiatives in an orderly manner. Based on its business operations, the Company steadily reduced carbon emission intensity through energy efficiency improvements, green energy substitution, and industrial optimization, aiming to achieve peak carbon emissions before 2030 and striving for carbon neutrality before 2060. The Board of Directors provided full oversight of the Company's progress toward its climate targets, while responsible departments leverage the carbon emission management system to enhance monitoring and management, strengthen the data foundation for the "dual carbon" goals, and foster a solid foundation for green development.

Recognizing the critical role of carbon emission data management in achieving the "dual carbon" targets, the Company adopted a rigorous and scientific approach to building a robust data control system. It conducted detailed monthly calculations, quarterly summaries and analyses, and comprehensive annual reviews. Additionally, the Company actively cooperated with local regulatory authorities to complete third-party verifications, ensuring transparency in data to demonstrate progress in low-carbon development. In 2024, the Company's total greenhouse gas emissions across its three industrial sectors – coal, power, and coal chemicals – amounted to 47.08 million metric tonnes of CO_2 equivalent, with a greenhouse gas emission intensity of 4.88 tonnes of CO_2 equivalent per RMB10,000 of output. (The aforementioned greenhouse gas data was based on the Company's internal statistics)

Indicators	2022	2023	2024
Total greenhouse gas emissions (Unit: 10 thousand tonnes of carbon dioxide equivalent)	4,633 (restated)	4,677 (restated)	4,708
Of which: Total direct greenhouse gas emissions (Scope 1)	3,647 (restated)	3,708 (restated)	3,704
Total indirect greenhouse gas emissions (Scope 2)	986 (restated)	969 (restated)	1,004
Greenhouse gas emission intensity (Unit: Tonnes of carbon carbon dioxide /RMB10,000)	4.83 (restated)	4.74 (restated)	4.88

Optimizing Industrial Layout

The Company is committed to thoroughly implementing the Party Central Committee's decisions on the reform and development of state-owned enterprises, steadfastly strengthening, optimizing, and expanding state-owned capital and enterprises. It remains dedicated to fulfilling its core mission of ensuring national energy security while driving the green and low-carbon transition. Leveraging its coal resource endowment and industrial advantages, the Company actively promoted the "Dual Integration" strategy to continuously enhance the resilience and risk resistance of the industrial and supply chains. The Company accelerated its transformation into a worldclass energy enterprise characterized by multi-energy complementation, green and low-carbon, innovation demonstration and modern governance.

Enhancing the"Initial Integration of Coal Resources and Power Generation"

The Company is committed to optimizing the initial integration of coal resources and power generation, with a focus on improving industrial structure and achieving synergistic growth between coal and power generation. It actively promoted the integration of coal and power at major coal bases, strategically positioning high-quality, clean, and efficient coal power projects at key locations such as mine-mouth sites, ports, transportation hubs, and national energy bases. By steadily advancing the high-quality development of the coal power industry, the Company enhanced the overall coordination and efficiency of the coal and power sectors, contributing to a stronger foundation for national energy security.

Advancing the "Subsequent Integration of Coal Power and Renewable Energy"

The Company steadily advanced the subsequent integration of coal power and renewable energy, guided by a green and low-carbon transition. Leveraging its own resources as the foundation and external expansion as a supplement, the Company coordinated the development of wind power, photovoltaic (PV) power, hydrogen energy, and energy storage. It actively promoted integrated demonstration projects covering "source-network-loadstorage" and explored multi-energy complementary development models while strengthening its position in the comprehensive energy services sector. These efforts contributed to optimizing the national energy mix.



Photovoltaic project at the Muduchaideng Coal Mine of Northwest Company



Pingshuo Group's 100 MW photovoltaic project

Exploring the "Integration of New Energy and Chemical Industries"

Focusing on strategic emerging industries and future industrial trends, the Company actively explored the integration of new energy and the chemical industry. It sought to develop an innovative model that couples "green hydrogen" with modern coalbased chemical processes, driving technological advancements in "green methanol" and "green ammonia" to facilitate carbon reduction across power generation, production, and market segments. Additionally, the Company accelerated the construction of coal-based olefin projects, aiming to establish a national "zero-carbon" green chemical demonstration base. This base would be built upon clean coal conversion, guided by coal-free chemical industry, and supported by a full coal-based industrial chain, fostering new quality productive forces in the low-carbon energy sector.

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China's First 100,000 Tonnes/Year "Liquid Sunlight" Green Project with Proprietary Intellectual Property Commences Construction

The "Liquid Sunlight" methanol technology utilizes electricity generated from renewable energy sources such as solar and wind power to produce "green hydrogen" through electrolysis. This green hydrogen is then combined with carbon dioxide, which is purified and captured from the exhaust gases of chemical plants, to produce methanol. This process enables the large-scale utilization of "green electricity" and "green hydrogen" while achieving the resourceful use of carbon dioxide.

In November 2024, the pile foundation construction for the carbon dioxide purification unit and the methanol production unit using carbon dioxide and green hydrogen commenced at the 100,000 Tonnes/Year "Liquid Sunlight" project of Ordos Energy Chemical Company. This marked the official start of construction for China's first fully integrated "Liquid Sunlight" demonstration project, which boasts 100% independent intellectual property rights and covers the entire process of producing methanol from carbon dioxide and green hydrogen. Once operational, the project is expected to reduce coal consumption by 140,000 tonnes of standard coal annually compared to coal-based methanol of the same scale, resulting in an approximate CO_2 emission reduction of 500,000 tonnes per year, setting a significant benchmark for the industry.



Scan the QR code to watch the "Liquid Sunlight" process flow

Integration of New Energy and Chemical Industries to Build a High-Value Industrial Chain

The China Coal Yulin Coal Deep Processing Base is the first coal chemical project approved by the Ministry of Ecology and Environment since the introduction of China's "dual carbon" goals. The project sets domestic benchmarks for energy consumption, carbon emissions, environmental protection, and digitalization, adopting the latest energy-saving and emission-reduction technologies. By integrating photovoltaic power generation, air separation, and energy storage technologies, it enables pollution and carbon reduction throughout the entire process – from the source to operations and end-use – facilitating the development of a multi-energy complementary, green, and low-carbon modern coal chemical industry. The project aims to establish a high-value, tightly integrated industrial and supply chain, embodying a new paradigm of "developing coal, utilizing coal, and transcending coal."

In October 2023, the project was selected by the Ministry of Ecology and Environment as a "Typical Case for Environmental Impact Assessment of Greenhouse Gas Emissions", making it the first coal chemical project from a central enterprise to receive this recognition. In June 2024, construction commenced on the project's second phase, with a total investment of RMB23. 888 billion. The phase is designed to produce 2. 2 million tonnes of methanol and 900,000 tonnes of polyolefins annually, alongside the optimization and upgrading of the existing Phase I coal chemical facilities. Additionally, a 250,000-ton-per-year LDPE/EVA extension and supporting projects will be developed. Once operational, the project will significantly enhance industrial structure upgrades and contribute to the establishment of an integrated energy development base spanning Inner Mongolia and Shaanxi.



Groundbreaking ceremony of the China Coal Yulin Coal deep processing base project

Advancing Low-Carbon Technology Innovation

Focusing on national energy security and green low-carbon transformation, the Company continued to increase R&D investment, tackling fundamental, urgent, cutting-edge, and disruptive technologies. It strived for high-level breakthroughs in energy conservation and carbon reduction, renewable energy substitution, carbon capture, utilization, and storage (CCUS), and coal mine methane management, reinforcing the foundation for green development. In collaboration with the Jingjinji National Center of Technology Innovation, the Company jointly established an Energy Low-Carbon Innovation Center, co-developing a frontier energy technology incubation institution and a carbon technology innovation platform, opening a new chapter in green development. In 2024, the Company conducted fundamental research in areas such as safe, green, and intelligent coal mining and clean, efficient, and low-carbon coal utilization.

Carbon Footprint Management—Tracing Carbon Emissions

China Coal Energy actively participated in the establishment of the national product carbon footprint management system. In 2024, the Company assisted the Ministry of Ecology and Environment in calculating carbon footprint factors for coal and coal-fired power products nationwide. It continued to enhance its own product carbon footprint management by launching a key scientific project titled "Carbon Footprint and Low-Carbon Cloud Application for the Coal Industry Chain." This initiative focused on addressing key technologies for quantifying the carbon footprint of typical coal-based products and exploring the establishment of a carbon labeling application system, making that carbon emissions are "visible".

Implementing Carbon Asset Management

The Company has established and improved the carbon management system, implementing a three-tier management mechanism consisting of the "company, secondary subsidiaries, and key emission units." Supported by the Carbon Asset Management Center as a technical platform, various business departments worked collaboratively to manage businesses such as carbon emissions, carbon assets, and carbon footprint management. The Company systematically developed carbon assets, actively participated in carbon markets as well as green power and green certificate trading, and ensured efficient carbon compliance. Regular carbon management training sessions were organized to continuously enhance the Company's carbon asset management capabilities and carbon reduction performance, ensuring steady progress in the low-carbon economy.



Organizing carbon management training sessions

Participation in Carbon Markets	 Engage in national carbon emission trading and voluntary emission reduction markets, conducting carbon trading and ensuring timely carbon compliance. Develop carbon assets through methane extraction and utilization, forestry carbon sequestration, and renewable energy projects, actively participating in the formulation of relevant methodologies and standards.
Participation in Green Power and Green Certificate Trading	 Shaanxi Company achieved 100% green power coverage for its coal chemical plant by purchasing green certificates. Ordos Energy Chemical Company completed its first green power transaction, purchasing 205 million kWh of green electricity throughout the year, significantly increasing its green power consumption.

Environmental Compliance Management

The Company remains firmly committed to the philosophy of green development, leveraging comprehensive, systematic, and source-oriented governance to build a scientific and complete environmental management system. By embedding the principles of green development into corporate governance and decision-making, the Company strengthened its institutional framework, optimized management processes, fostered environmental awareness, strictly adhered to ecological and environmental protection laws and policies, enhanced environmental emergency management, and continuously improved its ecological and environmental management efficiency. These efforts ensured the Company progressed steadily along the path of sustainable development.

Environmental Management System

The Company strictly complied with the "Environmental Protection Law of the People's Republic of China" and other national and local environmental protection laws and regulations. It established an ecological and environmental protection management system, which included policies on ecological and environmental governance, accountability mechanisms, and penalty measures. To strengthen oversight, the Company formed a leading group for ecological and environmental protection, with designated ecological and environmental management positions at grassroots units. Furthermore, annual ecological and environmental protection targets were assigned to relevant secondary subsidiaries and incorporated into the "Business Performance Assessment Responsibility Agreement for Corporate Executives," ensuring continuous improvements in environmental management across the Company.

In 2024

Environmental protection investment:

RMB 3.212 billion



Environmental management system certification of Zhangjiakou Coal Mining Machinery Company

Environmental Emergency Management

The Company placed great emphasis on environmental compliance management and continuously strengthened its capacity for environmental risk prevention and control. It conducted regular inspections and rectifications of potential ecological and environmental risks, with a particular focus on sensitive areas, key industries, and enterprises with significant environmental risks. Specific remediation plans were formulated and fully implemented to address environmental issues. Additionally, the Company continuously enhanced its environmental emergency management system, actively organized emergency response drills and training for sudden environmental incidents, and improved employees' emergency response capabilities. In 2024, no major environmental incidents occurred.



Hazardous chemicals emergency drill of Shaanxi Company

Advancing Pollution Control and Emission Reduction

The Company regarded pollution prevention as a key initiative in driving its green transformation. Adhering to the principles of targeted, scientific, and law-based pollution control, the Company took a multi-faceted approach that included strengthening source prevention, improving management systems, and optimizing technological pathways. Through these measures, it systematically advanced pollution prevention and waste treatment, ensuring continuous progress toward green development.

Pollution Prevention

Air Pollutants

The Company strictly complied with the "Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution" and other relevant laws and regulations. It rigorously implemented national emission standards, including the "Emission Standard of Air Pollutants for Thermal Power Plants" (GB 13223-2011) and the "Emission Standard of Air Pollutants for Boiler" (GB 13271-2014), continuously advancing the comprehensive management of air pollutant emissions. The Company actively promoted the application of advanced pollution control technologies and equipment, continuously strengthened the management of unorganized emissions from open construction sites, coal storage yards, ash and slag disposal areas, and gangue dumping sites, and advanced the shift from road to rail for bulk cargo transportation as well as the replacement of fuel-powered vehicles with new energy vehicles within the plant area. It strictly implemented production and bulk material transportation control measures during heavy pollution weather to ensure stable and compliant emissions of air pollutants.

Air Pollutant Emission Targets: Emissions were permitted only after meeting local regulatory standards

In 2024



Jincheng Thermal Power of Huajin Group implemented ultra-low emission retrofitting for its coal-fired power units, reducing over 1,000 tonnes of atmospheric pollutant emissions

Wastewater

The Company strictly adhered to the "Water Pollution Prevention and Control Law of the People's Republic of China" and other relevant laws and regulations. It rigorously enforced the "Emission Standard for Pollutants from the Coal Industry" (GB 20426-2006) and the "Integrated Wastewater Discharge Standard" (GB 8978-1996), continuously upgrading industrial wastewater, mine water, and domestic sewage treatment systems to meet higher discharge standards. Additionally, the Company accelerated the implementation of wastewater management projects such as sewage and stormwater separation in factory and mining areas to ensure compliant discharge. In a broader effort to protect water resources, water environments, and water ecosystems, the Company actively engaged in pollution control initiatives for key river basins while promoting regional wastewater management coordination. It further explored the potential for differentiated water use, multi-purpose water utilization, and cascaded water reuse within its mining and industrial park areas. By integrating and optimizing the comprehensive utilization system for wastewater and polluted water, it maximized the resourceful utilization of wastewater, thereby effectively promoting the reduction of wastewater discharge.

Wastewater Discharge Targets: Discharges were permitted only after meeting local regulatory standards

In 2024

Chemical oxygen demand (COD) emissions:

129_{tonnes}

7_{tonnes}

Ammonia nitrogen (NH₃-N) emissions:



Noise

The Company continuously strengthened noise monitoring and mitigation efforts in environmentally sensitive areas surrounding industrial and mining enterprises. It implemented effective vibration reduction and noise reduction measures, including installing sound barriers and implementing vertical greening along factory and mining boundaries, ensuring compliance with noise emission standards.



The coal industry's first "Green Factory" – Beijing Coal Mining Machinery Company

Waste Management

The Company strictly complied with the "Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes" and other relevant laws and regulations. It actively explored technologies and pathways for the resource utilization of solid waste while implementing stringent oversight throughout the entire lifecycle of hazardous waste, including its generation, storage, transfer, utilization, and disposal, ensuring full legal and regulatory compliance.

General Industrial Solid Waste

The primary type of general industrial solid waste generated by the Company is coal gangue, with a total output of 20.09 million tonnes in 2024. Upholding the principles of green development and circular resource utilization, the Company actively promoted the comprehensive use of coal gangue in power generation, building material production, road construction, and land reclamation. Additionally, it adopted localized approaches such as gangue backfilling and interlayer grouting to enhance the comprehensive utilization value of fly ash and furnace slag, maximizing resource efficiency. For general industrial solid waste that cannot yet be utilized, the Company ensured its proper disposal in strict accordance with the "Standard for Pollution Control on the General Industrial Solid Waste Storage and Landfill" (GB 18599-2020), thereby achieving maximum resource utilization while minimizing environmental pollution.

In 2024

Total generation of general industrial solid waste:



Generation of general industrial solid waste per RMB10,000 of output value:



Hazardous Waste

The hazardous waste generated by the Company primarily includes mixed salts and waste oils. In strict alignment with the "Standard for Pollution Control on Hazardous Waste Storage" (GB 18597-2023), the Company implemented standardized environmental management of hazardous waste storage. It also followed the "Technical Guidelines for Deriving Hazardous Waste Management Plans and Records" (HJ 1259-2022) to establish a hazardous waste management ledger. Disposal was entrusted to professionally certified entities, ensuring that all hazardous waste was processed in strict compliance with hazardous waste disposal standards, guaranteeing lawful, compliant, safe, and efficient disposal while firmly upholding the bottom line of ecological and environmental safety.



Hazardous Waste Disposal Target: All hazardous waste was disposed of lawfully and in full compliance with hazardous waste disposal standards

In 2024

Total hazardous waste generation:

227,000 tonnes

Generation of hazardous waste per RMB10,000 of output value:

23.6 kg/RMB10,000

Conserving Energy and Resources

The Company strongly advocated energy conservation and emissions reduction, taking a comprehensive approach to optimizing and upgrading energy utilization and water resource management. By deeply integrating technological innovation with management reforms, it established a green and efficient operational system. The Company deeply practiced circular economy principles, promoting ecological protection alongside high-quality economic development. This approach fostered a mutually reinforcing relationship between environmental protection and corporate growth, driving the industry's green transformation.

Efficient Energy Utilization

Guided by the "Energy Conservation Law of the People's Republic of China," the Company issued the "Energy Conservation Management Measures of China Coal Energy Company Limited" and established a comprehensive energy management system covering the entire lifecycle of energy utilization. It ensured that energy-saving facilities were implemented and inspected simultaneously with main construction projects. Through energy efficiency benchmarking, energy audits, energy consumption quota management, and comprehensive ledger recording, the Company achieved a standardized, refined, and systematic approach to energy management. In 2024, subsidiaries such as Pingshuo Group, Shanghai Energy Company, Shaanxi Company, Zhangjiakou Coal Mining Machinery Company, and Beijing Coal Mining Machinery Company further strengthened their energy management systems, successfully passing their annual certifications.

The Company actively explored pathways for low-carbon energy integration and low-carbon coal production. Coal production enterprises implemented various technological upgrades, including electric heavy-duty truck replacements, mine waste heat and low-concentration gas utilization, frequency conversion retrofits for variable-load ventilation systems in inclined shafts, and reactive power compensation for electrical facilities. Coal chemical enterprises implemented projects such as waste heat recovery, VOCs emission treatment with waste heat utilization, and fan energy-saving retrofits, leading to an annual savings of 4,559 tonnes of standard coal. Coal mining equipment manufacturing enterprises carried out large-scale equipment upgrades to further reduce energy consumption, improve production efficiency, and enhance product quality. Power enterprises actively and systematically advanced the implementation of the "three reforms linkages" initiative to enhance the efficient utilization of coal.





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Energy Efficiency Targets for 2025: Comprehensive energy consumption per RMB10,000 of output value to decrease by 10% compared to 2020

In 2024

Total comprehensive energy consumption:

11.5 million tonnes of standard coal

Comprehensive energy consumption per RMB10,000 of output value:



Total direct energy consumption:

14.64 million tonnes of standard coal

Of which, Total raw coal consumption:

19.93 million tonnes Total natural gas consumption:

2,905 cubic meters

Total oil consumption:

179,000 tonnes Total other direct energy consumption:

234,000 tonnes of standard coal

Total indirect energy consumption:

1.0228 million tonnes of standard coal

Of which,

Total electricity consumption:



Total purchased heat consumption:





Pingshuo Group Advanced Electric Substitution for Mining Trucks – Trial Operation of the World's First XEG220E Pure Electric Mining Truck

Pingshuo Group actively implemented projects such as the research, development, and application of domestically produced hybrid electric mining trucks, as well as the onsite application and testing of pure electric mining trucks, steadily advancing the substitution of fuel-powered trucks with electric alternatives. In collaboration with Xiangtan Electric Manufacturing Group, Pingshuo Group successfully developed the world's first XEG220E pure electric mining truck, the Xiangdian XEG220E, which has now commenced trial operations at the Anjialing Open Pit Mine. The truck is equipped with high-safety, cost-effective lithium iron phosphate (LFP) batteries and an advanced battery management system, integrating full electrification, AC drive technology, and intelligent features. The Xiangdian XEG220E pure electric mining dump truck consumes approximately 12,000 kWh of electricity per day, achieving cost savings of nearly 40%. It is expected to replace approximately 600 tonnes of fuel annually.



In November 2024, the Xiangdian XEG220E was officially delivered and put into operation at the Anjialing Open Pit Mine of Pingshuo Group

Water Resource Management

The Company strengthened water resource management by establishing a water supply and usage management system, defining water conservation responsibilities, formulating assessment measures, and designating dedicated departments and personnel for oversight. It strictly implemented planned water usage, reinforced water conservation management and secondary water supply approvals, and ensured precise metering. The Company developed intelligent water management systems and digital water conservation policies. The Company actively promoted reuse of reclaimed water, cascade water supply, and closed-loop water circulation as key water-saving measures, while gradually phasing out high-water-consumption equipment and processes. Wastewater from the plant area was centrally treated using advanced technologies to enable the recycling of reclaimed water. Additionally, the Company enhanced pipeline and equipment inspections and maintenance to eliminate "leaks, spills, and drips," thereby enhancing the efficiency of water resource utilization.

Water Utilization Targets: Mine water utilization rate: No less than 90%

In 2024

Freshwater consumption:

70.30 million tonnes

Freshwater consumption per RMB10,000 of output value:



Water recycling rate:




Developing a Circular Economy

In response to the national circular economy development plan, the Company adopted strategies for efficient resource utilization and waste recycling. The implementation of green mining technologies, such as backfill mining and water-conserving mining, significantly reduced the waste of coal resources and enhanced the recovery rate of raw coal, thereby maximizing the utilization of coal resources.

In accordance with the water quality characteristics and reuse pathways of mine water, the Company utilized treated mine water for production purposes or supplied it to surrounding areas, thereby improving the efficiency and benefits of water resource utilization. The Company actively explored technologies and pathways for the resource utilization of solid waste, employing methods such as interlayer grouting and power generation to utilize coal gangue. Additionally, it converted methane released during coal mining into clean energy, achieving energy conservation and emission reduction.

In 2024

Comprehensive utilization rate of mine water:

97.2%

Comprehensive utilization rate of coal gangue:

95.3%

Total packaging material consumption:

15,183 tonnes

Recycling rate:

100%

Packaging material usage per unit product:





Mine water advanced treatment equipment at Shaanxi Company, where treated mine water was reused in circulation, helping to alleviate local water scarcity

Protecting the Ecological Environment

The Company remained steadfast in implementing the philosophy that "lucid waters and lush mountains are invaluable assets" and strictly adhered to national ecological governance laws and regulations. It continuously advanced land reclamation at open-pit mine dumps and comprehensive restoration of subsidence areas in underground mines, maximizing the value of reclaimed land. The Company actively developed agrivoltaic and aquavoltaic renewable energy projects, fostering a new model of green development. Through extensive awareness campaigns and education programs, the Company instilled a strong green development mindset among employees, contributing robustly to the advancement of ecological civilization.

Protecting Biodiversity

Adhering to Green Mining

The Company is committed to high-standard green mine construction, implementing stringent dust control measures during extraction operations. By adopting wet operations and regularly leveling haul roads, it effectively mitigated dust pollution from open-pit mines, significantly improving air quality in and around mining areas. The Company also launched mine water treatment projects, achieving comprehensive mine water utilization. Additionally, it vigorously promoted new technologies such as underground gangue backfilling and interlayer grouting, converting coal gangue, fly ash, and other solid wastes into valuable resources. These efforts laid a solid foundation for building a modern mining area that is ecologically livable and industrially green.

In 2024

Advancing Mine Restoration

The Company placed great emphasis on ecosystem protection, vigorously promoting land reclamation at open-pit mine dumps and comprehensive restoration of subsidence areas in underground mines. The Pingshuo Mining Area has been a pioneer in mine land reclamation and biodiversity conservation in China, establishing an integrated "mining-transportationdumping-reclamation" model and setting an industry benchmark for mine restoration and ecological reconstruction. In 2024, the Pingshuo Mining Area was included in the Eighth Batch of Industrial Cultural Heritage Sites of Central Enterprises (Mining Industry) Catalog by the SASAC of the State Council.

Pingshuo Group has completed reclamation projects covering

5,233 mu of land,

including

2,933 mu of land

and carried out afforestation efforts spanning

dedicated to subsidence area reclamation,



Transforming a Black Mine into a Green Haven – Safeguarding Mining Ecology

The Antaibao Open Pit Coal Mine, operated by Pingshuo Group, is located on the Loess Plateau, an area severely affected by soil erosion and deeply fragmented topography. The high-intensity, large-scale open-pit mining operations pose a significant threat to the original landscape. Since the establishment of the mine, Pingshuo Group has upheld a policy of synchronous mining and ecological restoration. Today, the mining area boasts over 200 plant species, more than 600 insect species, and over 30 species of wild animals, reflecting a thriving ecosystem and increasing biodiversity.

"For every parcel of land we use each year, we must reclaim an equivalent amount – this has become a strict mandate for us."

----Chai Shujie, General Manager of China Coal Pingshuo Group Ecological Industry Company



Swans inhabiting the Pingshuo Mining Area of Pingshuo Group

Utilizing Reclaimed Land Comprehensively

The Company actively promoted the comprehensive utilization of reclaimed land, exploring effective ways to revitalize land resources. It developed agrivoltaic and aquavoltaic renewable energy projects, further consolidating and expanding the achievements of ecological restoration and governance. This approach ensured a win-win outcome for ecological, social, and economic benefits, providing a solid foundation for sustainable development.

Aquavoltaics – Safeguarding Urban Biodiversity

The "Aquavoltaic" Demonstration Base is a key project under Shanghai Energy Company's "14th Five-Year" Plan for transformation and development. As Phase I of the Company's renewable energy demonstration base, the project has a total installed capacity of 263 MW, covering approximately 5,847 mu. In December 2021, the first batch of 30 MW from Phase I was successfully connected to the grid. In 2024, Shanghai Energy Company fully advanced the 165 MW photovoltaic project in the Longdong coal mining subsidence area, as well as the 40 MW optimization project for Phase I of the renewable energy demonstration base. Additionally, the 204 MW Phase II project of the renewable energy demonstration base was officially approved. The "photovoltaic power generation + coal mining subsidence area ecological restoration + aquavoltaics" model improved the aquatic ecological environment. The shaded areas beneath the photovoltaic panels created an ideal habitat for shade-loving fish species and other aquatic organisms, effectively contributing to biodiversity conservation.



Shanghai Energy Company's "aquavoltaic" demonstration base

Advocating Green Living

The Company actively promoted green commuting and eco-friendly office practices, integrating energy conservation and carbon reduction into employees' daily work habits. It actively launched energy conservation and environmental education initiatives, organizing various themed activities on occasions such as World Environment Day, National Ecology Day, National Energy Conservation Promotion Week, and National Low-Carbon Day. During "China Water Week" and "World Water Day", the Company conducted in-depth water conservation awareness campaigns, fostering a culture of water conservation. Additionally, the Company proactively expanded environmental education platforms for the public, disseminating environmental protection knowledge to enhance public awareness of sustainability, thereby fostering a greener and more sustainable society.



During national energy conservation promotion week, Shanghai Energy Company released the "green transition, energy-saving initiative" promotional video to promote green and low-carbon lifestyles and advocate for energy conservation and emission reduction

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Shared Growth Fulfilling Social Responsibilities

China Coal Energy embraced the nation's strategic priorities, upholding its corporate mission of "ensuring energy security, leading industry development, and creating a better life." The Company remained steadfast in safeguarding the lifeline of workplace safety, continuously optimizing its products and services, shouldering the responsibility of energy supply security, and driving the coordinated advancement of enterprises, employees, and society. Through these efforts, China Coal Energy contributed its strength to the Chinese modernization.





Strengthening Safety Measures

The Company resolutely implemented General Secretary Xi Jinping's important speeches and instructions on workplace safety, adhering to the philosophy of "people first, life first" and "starting from zero, striving for zero" with a firm commitment to the goals of "zero fatalities, zero harm, and zero accident". By continuously developing long-term production safety mechanisms, the Company ensured a high-level safety to safeguard the Company's high-quality development.

Enhancing Safety Management

China Coal Energy upheld the "compliance-driven" safety culture, believing that "any accident can be avoided, any violation can be prevented, zero deaths can be achieved." The Company established a comprehensive safety management system, formulating multiple safety management regulations, including the "Measures for Safety Production Supervision and Management of China Coal Energy Company Limited" and the "Safety Management Measures for Coal Chemical Operations of China Coal Energy Company Limited." Through ongoing institutional improvements, the Company continued to reinforce its safety management framework and strengthen safety production responsibilities. A regularized safety supervision mechanism was established, alongside a dual prevention system for risk classification and hazard identification. The Company closely monitored the implementation of safety responsibilities and on-site safety management, maintaining strict oversight to ensure workplace safety.



China Coal Energy convened the 2024 safety production committee meeting

Advancing Workplace Safety

The Company deeply instilled the principle of "safety first," focusing on the three-year initiative for fundamental improvement in safety production as its main agenda. It strengthened the implementation of primary responsibility for safety production and advanced the standardization of safety production management. By defining clear safety red lines, the Company launched a special campaign to combat the "three violations" in safety production. It rigorously addressed the control and management of major risks and hazards, emphasizing safety management in key industries and sectors, and continuously enhanced its safety production standards. As a result, 11 coal mines achieved national top-level safety production standardization, and the pilot tasks for two "Industrial Internet + Hazardous Chemical Safe Production" coal chemical plants were successfully completed.

In 2024, China Coal Energy invested RMB 3.229 billion in workplace safety, successfully preventing any major or severe production safety incidents. The Company launched 15 specialized safety campaigns, maintaining strict safety oversight, and conducted safety training sessions for a total of 145,847 participants, achieving a 90.5% coverage rate for safety risk prevention training.

In 2024





lost due to work-related injuries (based on work injury insurance compensation days)

Continuous Improvement in "Human Defense" Capabilities

- The Company headquarters appointed a dedicated safety director at the level of assistant to the general manager, implementing vertical safety supervision over coal mining enterprises. The safety supervision bureau chief was assigned with the "four powers" of assessment, rectification, suspension, and veto.
- Eight measures for addressing the "three violations" were established, with rewards for teams with no violations.
- Each quarter, the Company conducted reviews of major safety risk controls and high-risk operations, guiding the identification of major safety risks and high-risk operations, as well as the formulation of safety technical measures. Key locations, critical work areas, high-risk tasks, and temporary emergency operations were subject to dedicated safety oversight.

Continuous Improvement in "Physical Defense" Capabilities

- The Company deepened the standardization of coal mine safety production, with 11 coal mines achieving national toplevel safety production standardization, continuously enhancing safety assurance capabilities.
- The Dahaize Coal Mine and East Open Pit Mine were selected as innovative application enterprises in the National Mine Safety Administration's "Smart Mine Data Integration and Sharing Standards", initiating the demonstration construction of minimally or unmanned intelligent mining faces.
- The successful development of "fully independent and controllable intelligent mining equipment and control systems" was recognized as a major achievement in coal mine intelligent construction in 2024.

Continuous Improvement in "Technical Defense" Capabilities

- Technical supervision was conducted on critical production systems, equipment, facilities, technical processes, and monitoring systems, with timely alerts and closed-loop rectification for any abnormalities.
- The Company comprehensively advanced the construction of a video AI platform to combat the "three violations," achieving full coverage of "six key locations." Individuals found deliberately dismantling, damaging, or obstructing monitoring facilities to evade supervision were subject to dismissal.
- Aligned with the goals of "reducing personnel, enhancing safety, and improving efficiency," the Company developed a safety intelligent recognition system and a safety and environmental information management platform. The "three separations" (separation of people and vehicles, production and non-production personnel, and different professional personnel) safety management approach was fully promoted across all production units.



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In March 2024, Shanghai Energy Company and Zhangjiakou Coal Mining Machinery Company were awarded the "National Youth Safety Production Demonstration Post" by the Communist Youth League of China and the Ministry of Emergency Management



Huajin Group frontline underground workers undergoing safety inspections before entering the mine

Enhancing Emergency Management

The Company thoroughly implemented General Secretary Xi Jinping's directives on emergency management by establishing comprehensive emergency response systems and protocols. It developed and implemented the workplace safety emergency management system, emergency response measures for workplace safety incidents, and workplace safety incident emergency plans to strengthen emergency management at the grassroots level, effectively mitigating major safety risks and proactively responding to various disasters and accidents to strictly uphold the safety bottom line. In 2024, the Company formulated 3,174 emergency plans and conducted 3,514 emergency drills.

Establishing Dedicated Emergency Institutions

Established the emergency rescue headquarters as the highest decision-making body for emergency response, responsible for overseeing emergency actions at the headquarters level and ensuring unified command and coordination of emergency rescue operations, in order to enhance the overall integration and coordination of emergency rescue efforts.

Formulating Emergency Response Plans

Developed the headquarters' production safety incident emergency response plan, comprising a comprehensive plan and five specialized sub-plans covering critical safety areas, in order to provide clear guidance for emergency rescue and response operations, and ensure the scientific, orderly, and effective implementation of all emergency measures.

Optimizing Standard Operating Procedures

Conducted a comprehensive review of task lists and work standards for all positions, and compiled them into pocketsized job hazard analysis cards for on-duty personnel to carry with them, in order to clarify emergency response procedures and improve the accuracy and timeliness of employee responses.



Huajin Group's Mine emergency rescue team conducting an emergency drill

Fostering a Safety Culture

The Company actively promoted a "compliance-driven" safety culture, comprehensively enhancing employees' safety awareness and enforcing high-standard training programs for key personnel such as coal mine managers and team leaders. The Company carried out in-depth safety warning education and established a regularized safety warning education mechanism, producing five-minute safety warning videos based on real accident cases to reinforce safety awareness and strengthen workplace safety defenses. In 2024, Beijing Coal Mining Machinery Company was recognized by the China Association of Work Safety as a "National Demonstration Enterprise for Safety Culture Construction."



[&]quot;National Demonstration Enterprise for Safety Culture Construction" award by China Association of Work Safety

Ensuring Information Security

To effectively address the information security and data protection challenges arising from the Company's digital transformation, a comprehensive risk control and management system was established and implemented through issuing and enforcing a series of policies, including the Cybersecurity Management Measures, Data Management Measures, Data Security Implementation Rules, and Data Security Management Standards, providing systematic guidance and regulatory frameworks for enterprise data management and security protection. The Company conducted regular monitoring of network attacks, strengthened cybersecurity inspections and supervision, and guided subsidiaries in promptly identifying and mitigating information security risks, significantly enhancing overall information security defense capabilities. By organizing an annual Cybersecurity Promotion Week and conducting specialized cybersecurity training, the Company continuously reinforced employees' awareness of information security, systematically enhanced risk prevention and emergency response capabilities, and effectively constructed a defense line of information security throughout the digital transformation process.

The Company placed great emphasis on customer data privacy protection, having formulated relevant customer records management policies and designated personnel exclusively responsible for managing customer files to ensure that customer information remains confidential. Additionally, data security classification for the procurement and supply chain platform has been initially completed, with progressive implementation of technical measures such as desensitization and encryption processing.



Reinforcing Product Responsibility

The Company strictly adhered to the "Product Quality Law of the People's Republic of China" and other relevant regulations, implementing the "Supervision and Administration Provisions on the Implementation of Quality and Safety Responsibilities by Industrial Product Manufacturers" to uphold the "Quality First" principle. Through comprehensive quality management and promotion of quality system certifications, the Company ensured standardized quality management throughout the production process, vigorously enhancing product supply quality and service assurance capabilities.

Product and Service Safety & Quality

Committed to the principle of integrity, the Company implemented comprehensive quality management by establishing standards and specifications covering product manufacturing, inspection, and quality control. Strict control measures were in place for raw and auxiliary material quality, operational indicators during production, and product ex-factory standards, driving quality enhancement across the entire process. The Company actively promoted quality management certifications, including certifications for major products and service quality management systems, ensuring standardized quality control in production. In 2024, the Company reported zero major product quality incidents.



- Continuously strengthening coal quality management, implementing comprehensive management of coal mining, washing, and testing to ensure that coal products meet national standards and customer requirements.
- Subsidiary enterprises actively advanced quality management system certifications, with Shanghai Energy Company obtaining the GB/T 19001-2016/ISO 9001:2015 Quality Management System Certification.
- In 2024, one coal testing laboratory received CNAS accreditation, and one testing company obtained CMA certification.



- Establishing standards and regulations covering product manufacturing, inspection, and quality control, and revising documents such as the Management Measures for Coal Chemical Product Technical Standards and the Coal Chemical Product Quality Management Measures.
- Shaanxi Company and Pingshuo Energy Chemical Company obtained GB/T 19001-2016 / ISO 9001:2015 Quality Management System Certification.
- In 2024, the quality pass rates for key products such as urea and polyolefins exceeded 99%.



- Formulating the "Quality Management Measures of China Coal Mine Machinery Equipment Co., Ltd.", along with quality manuals, inspection procedures, and product quality traceability regulations.
- Equipment enterprises have successively passed: ISO 9001 Quality Management System Certification; ISO 3834-2 International Welding Quality Management System Certification; QEO (Quality, Environment, and Occupational Health) Integrated Management System Audit; CNAS Laboratory Supervision and Review; EN 1090 Annual Supervision Audit for Steel Structure Product Certification. Additionally, the Company received: The NECAS National After-Sales Service Standard Certification (Five-Star Rating); Safety Mark Certifications for all mining products.

Enhancing Customer Satisfaction

The Company adhered to the business philosophy of "market orientation, customer-centric", establishing a comprehensive customer complaint handling and after-sales service system. It regularly conducted customer satisfaction surveys, continuously optimizing services and driving ongoing improvements in customer satisfaction. In 2024, the Company maintained stable and reliable product quality, with a 100% product and service response rate and customer satisfaction across all sectors exceeding 90%. Regarding product disputes, the Company strictly adhered to the sales contract terms and resolved issues through proper negotiation. No product recalls due to safety or health issues occurred during the year, and there were no litigation cases.

Coal Industry

- In response to market demand, changes in the coal market, and shifts in trade methods, the Company continuously optimized its product structure and provided customized coal products to meet specific supply needs.
- The Company established systems such as the "Process and Management Measures for Delivery of Shipped Coal to Plant by China Coal Sales and Transportation Company Limited" to improve transportation services.

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Coal Chemical Industry

- The Company organized customer satisfaction surveys, collecting and analyzing customer feedback on aspects such as product performance, quality requirements, sales processes, and service quality.
- Customer focus groups were held for different product types to deeply understand customer needs.

Coal Mining Equipment Manufacturing Industry

- A full-process technical support system covering pre-sales, in-sales, and after-sales was established to ensure customer safety during product use.
- Management and technical personnel visited customer sites to promptly provide professional solutions to issues related to product use and service.

Ensuring Energy Supply

The Company resolutely implemented the decisions and deployments of the Central Committee of the CPC and the State Council, fulfilling its responsibility to ensure energy supply. As a central enterprise in the energy sector, the Company played a crucial role as the "pillar" and "ballast". It continuously strengthened the construction of the coal supply system, taking multiple measures to stabilize production, resources, sales, and prices, and actively safeguarded national energy security and met the energy needs of the people with concrete actions, contributing to the economic and social development.

Implementing Energy Supply and Price Stability Plans

The Company adhered to the principle of "determining electricity with coal, developing quality projects", increasing investment in high-quality thermal power projects in resource-rich areas such as mining pits. It strengthened regional resource matching and intensified its focus on the coal-electricity industry, creating a robust risk resistance barrier. The Company rigorously enforced medium- and long-term contracts with a 100% performance rate, resolutely implementing coal price control policies. It continued to optimize production organization, enhance the coordinated flow of production, transportation, sales, and marketing, and release high-quality capacity to ensure stable and orderly coal and electricity supply, demonstrating its commitment to energy supply security and public welfare.



Antaibao $2 \times 350,000$ kW thermal power project for low-calorific value coal to further improve the local energy supply capacity



Frontline operations in unit maintenance management and equipment operation at the thermal power plant under Huajin Group

Ensuring Stable Supply During Key Periods

The Company played a vital role in guaranteeing the coal supply and acted as a key force in energy supply security for central enterprises. It rigorously implemented initiatives for increased coal production, power generation, and fertilizer supply for spring plowing, focusing on key periods, regions, and industries. The Company systematically developed and implemented a series of regulatory documents such as the "Coal Supply Management Measures," "Annual Supply Plan," "Summer Peak Supply Plan," and "Winter Heating Season Supply Plan," establishing a scientifically efficient long-term energy supply mechanism to ensure the security and stability of the energy supply chain.

Unfazed by the high temperature test, fully ensuring peak summer energy supply

Since the beginning of summer in 2024, northern China has faced extreme high temperatures, while southern regions entered a period of intense rainfall. In response to challenge of the sharp increase in energy demand, Shaanxi Company's Dahaize Coal Mine organized production scientifically, carried out staggered maintenance for the northern and southern wings, and improved the quality of equipment maintenance to ensure high-efficiency production at the mine. On 10 June 2024, the mine's daily raw coal production exceeded 80,900 tonnes, setting a historical record since its establishment and achieving industry-leading performance.



Shaanxi Company's Dahaize Coal Mine

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Dynamically adjusting coal transportation capacity to ensure stable energy supply

Spring plowing in full swing, meeting agricultural needs

In 2024, the Company took on the critical responsibility of ensuring food security, closely monitoring key agricultural seasons, and implementing national policies on fertilizer supply and price stability. The Company launched its spring plowing and summer planting fertilizer supply action, ensuring that exports were halted, price increases were avoided, and hoarding was prevented, maximizing the satisfaction of domestic agricultural demand. The Company actively participated in national fertilizer reserve projects, expanding the storage scope and task volume, coordinating production, transportation, and sales, and precisely distributing reserved materials to support the orderly progress of spring plowing.



In March 2024, the average daily fertilizer dispatch volume exceeded 6,500 tonnes, while the factory's urea inventory reached its historic low, ensuring timely delivery of fertilizers to the fields to fully meet the spring plowing fertilizer demand

Caring for Employee Growth

The Company adhered to the talent development philosophy of "people-oriented and sharing results", fostering a high-caliber and highly cohesive workforce by establishing clear career development pathways and diverse growth platforms. At the same time, the Company is committed to protecting employees' legal rights, enhancing democratic management mechanisms, prioritizing employee health and well-being, and ensuring that employees share in the Company's development achievements, thereby strengthening their sense of fulfillment, happiness, and security.

Protecting Employee Rights

Equal and Standardized Employment

The Company strictly upheld the principle of equal employment, maintained a transparent recruitment process, and strictly prohibited the use of child labor, forced labor, and all forms of employment discrimination. During the recruitment process, we adhered rigorously to laws and regulations such as the Regulations on the Prohibition of Child Labor by conducting thorough background checks with a focus on verifying applicants' identification cards, household registration documents, and other valid credentials to prevent the recruitment and employment of child labor from the outset. Any instance of child labor or forced labor would result in the immediate termination of the employee's labor contract and legal action against the responsible individuals.

In terms of talent acquisition, the Company actively promoted diversity in gender, ethnicity, and professional background, carrying out recruitment programs for recent graduates and experienced professionals while also providing employment opportunities for veterans and individuals with disabilities, supporting stable employment for key demographic groups. Additionally, the Company refined its internal talent mobility mechanisms, facilitating orderly talent circulation across business segments and continuously optimizing its talent structure to provide a solid foundation for corporate development.

In 2024, the Company hired 1,190 new employees, bringing the total workforce to 46,452, including 7,180 female employees and 1,049 employees from ethnic minorities. The labor contract signing rate reached 100%.





Safeguarding Legal Rights

The Company strictly complied with the "Labor Law of the People's Republic of China," fully implementing measures to protect employee rights. It ensured comprehensive social insurance coverage, including pension, medical, and other statutory benefits, and enforced strict working hour management to eliminate forced labor. In cases where overtime work were legally permitted and necessary, employees were granted compensatory leave or compensated according to regulations. The Company also guaranteed employees' rights to paid annual leave, maternity leave, paternity leave, and exclusive childcare leave for parents of an only child. In 2024, the annual leave utilization rate reached 91%. The Company placed great emphasis on democratic management, maintaining a well-established trade union system with 27 union organizations, achieving a 100% union membership rate. Through 36 employee representative meetings held throughout the year, with 2,702 representatives participating, the Company implemented a review and approval mechanism for key decisions related to salary adjustments, benefits enhancement, and career development planning. Furthermore, the Company fully implemented corporate affairs transparency by soliciting employee opinions through multiple channels. In 2024, the Company's overall employee turnover rate was 1.19%, with zero collective labor disputes, further enhancing employees' sense of gain, sense of well-being, and sense of security.

Supporting Employee Development

Emphasizing Employee Training

The Company is firmly committed to implementing the "strengthening enterprises with talents" strategy and has introduced key policies such as the "14th Five-Year Talent Development Plan", "Provisional Management Regulations on Employee Education and Training", and the "Implementation Measures for the Integrated Career Development of Highly Skilled and Engineering Professionals (Trial)". A tiered education and training system was established to provide structured and specialized training programs annually. The Company also built a faculty training pool and continuously enhanced the resources and capabilities of its training institutions, including the China Coal Party School, China Coal Vocational and Technical College, Pingshuo Group Education and Training Center, and China Coal Chemical Training Center.

Expanding Career Development Pathways

The Company actively implemented the Chinese Communist Party's directives on deepening reforms in talent development mechanisms, continuously improving the career development framework and establishing clear pathways for employees in management, professional technical fields, and skilled operations. Furthermore, the Company established an integrated career progression channel for highly skilled professionals and engineering personnel, while optimizing talent evaluation systems to ensure the synchronous development of human resources and corporate growth. The Company placed great emphasis on the development of female employees, fully leveraging the women's committee to organize theoretical learning sessions, professional training, and skill competitions for female employees. Additionally, the Company prioritized the physical and mental well-being of female employees, fostering their growth and contribution to corporate development.

In 2024, the Company conducted 62 online and offline training programs, with approximately 89,000 participants. The average training duration per employee reached 23 hours, covering 76. 1% of the workforce, providing strong support for both employee growth and corporate development.

By the end of 2024, the Company has: Over 300 senior professional managers in the coal industry; 165 "coal industry master craftsmen"; 35 coal industry master craftsmen workstations; 37 employees receiving government special allowances; 1 individual selected as a "Top 100 Outstanding Craftsmen" in central enterprises; 1 individual selected in the "great country craftsman" cultivation and support program for central enterprises; 15 employees awarded the title of "national technical expert" by the Ministry of Human Resources and Social Security.

In 2024



Ensuring Occupational Health

The Company adhered to the principle of "prevention first, combining prevention and control" and integrates occupational health management with workplace safety supervision. By establishing comprehensive management systems, strengthening safety training, and enhancing protective measures, the Company continuously improved its occupational health management capabilities. In 2024, the Company conducted 1,104 occupational health training sessions, with 11 subsidiaries obtaining occupational health and safety management system certification, and 9 enterprises recognized as provincial or municipal-level "healthy enterprises", effectively safeguarding employees' occupational health rights.



Enhancing Employee Well-being

The Company regarded employee well-being as a fundamental foundation of corporate development. By improving the compensation and benefits system, strengthening occupational health protections, and promoting work-life balance, the Company continuously enhanced employees' happiness and ensured they shared in the Company's growth.

Improving the Compensation and Benefits System

The Company established a market-aligned, performance-driven salary growth mechanism, with a focus on rewarding R&D personnel, highly skilled and urgently needed professionals, and frontline industrial workers. It optimized internal compensation structures to ensure that employee earnings remain among the highest in the industry. Additionally, the Company complied with all legal requirements in providing social insurance for employees, established an enterprise annuity program and supplemental medical insurance system, and built a multi-tiered security framework to effectively address employees' concerns.

Promoting Work-Life Balance

The Company is committed to employees' holistic development and, in 2024, organized 262 cultural and sports activities. Through festive celebrations, recreational events, and health seminars, the Company enriched employees' leisure time, enhanced their physical and mental well-being, and fostered team cohesion. The Company was also dedicated to caring for every employee, striving to create a warm and supportive "home". Meanwhile, a



Northwest Company hosted a choral competition themed "Singing Red Classics, Uniting Force for Progress", celebrating the 75th anniversary of the founding of the People's Republic of China

comprehensive employee assistance mechanism was established to support those in need. In 2024, the Company provided assistance to 3,643 employees, disbursed RMB5.48 million in aid funds, and conducted 854 employee visits to offer care and support. These initiatives ensured that employees genuinely felt the Company's commitment to their well-being and achieved a harmonious balance between work and life.



Shaanxi Company organized a Spring Festival couplet-writing event to spread festive blessings in 2024



Shanghai Energy Company's employees showcased perseverance in a long-distance race during the Company's sports event



Beijing Coal Mining Machinery Company extended care and support to retired employees, disadvantaged party members, and workers in need



Huajin Group's employees collaborated in a tug-of-war competition, demonstrating teamwork and achieving excellent results

In 2024



3,643 employees



Enhancing Public Well-being

The Company placed great emphasis on the economic and social development of its operational locations, proactively fulfilling corporate social responsibilities, supporting local economic growth, actively participating in community projects, and engaging in social welfare initiatives. By continuously improving the quality of life for local residents and giving back to society, the Company fostered mutual development between the enterprise and the communities where it operates.

Supporting Comprehensive Rural Revitalization

The Company deeply studied and implements General Secretary Xi Jinping's key directives on serving agriculture, rural areas and farmers ("Sannong"), and earnestly studied and applied the experience of the "10 Million Project," strictly adhering to the requirements of the SASAC of the State Council for central enterprises' targeted assistance efforts. It convened annual special meetings on rural revitalization, formulated and issued the key points for targeted assistance work in 2024, helping supported regions consolidate and expand the achievements of poverty alleviation, and comprehensively promoting new successes in rural revitalization.

In 2024, China Coal Energy made direct, non-repayable rural revitalization investments totaling RMB4.8724 million, purchased agricultural products and handicrafts from assisted regions, along with voluntary donations of money and goods

by Party members and cadres, totaling RMB32,722,700, and implemented 26 assistance projects, benefiting nearly 30,000 people previously lifted out of poverty. The Company also dispatched 17 officials, including temporary aid cadres, first secretaries stationed in villages, and village work team members. Additionally, seven partnerships were established between corporate Party branches and povertyalleviated villages. Focusing on industrial revitalization, talent revitalization, ecological revitalization, organizational revitalization, and cultural revitalization, the Company carried out diverse assistance initiatives. Efforts were intensified in energy industry-driven support, innovative cultural and tourism assistance, and large-scale educational support programs, making significant contributions to the economic and social development of assisted regions.

Innovative Cultural and Tourism Assistance Initiatives

• The cultural and tourism promotional brands such as "Impression Yinjiang," "Encounter Weizhou," and "Chasing Dreams in Zhuolu," which were jointly launched by the enterprises and the local government, gained widespread recognition. These initiatives served as prominent showcases of the cultural and tourism resources of the assisted counties (districts) to both central enterprises and the general public. Additionally, the Company supported the development of Yinjiang County in Guizhou Province, helping it establish an "Industrial Revitalization Demonstration Belt" that integrated intangible cultural heritage experiences, wellness tourism, and Red Culture education, effectively stimulating local consumption growth.

Building Livable and Thriving Rural Communities

• The Company supported assisted regions in implementing six key rural development projects, including toilet and livestock pen renovations, wastewater treatment, and village landscape enhancement. These initiatives significantly improved rural infrastructure and living conditions, leading to notable transformations in village appearances. As a result, local infrastructure support was strengthened, and villagers' sense of fulfillment, happiness, and security was markedly enhanced.

Leveraging Digital Commerce to Boost Agriculture

• By leveraging its proprietary e-commerce platform, "China Coal E-Purchasing," the Company actively participated in specialized consumption assistance initiatives organized by the SASAC of the State Council, such as the "Spring Festival Campaign" and "Agriculture Promotion Festival." Through precise demand matching, the Company facilitated the integration of assisted-region products into corporate cafeterias, supermarkets, and employees' households.

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Development Company operated the "China Coal E-Purchasing" procurement and supply chain platform, utilizing digital advantages to upgrade and enhance consumption assistance efforts



Beijing Coal Mining Machinery Company received a banner of appreciation from Mupen Village for its targeted assistance efforts



Equipment Company's donation and assistance event at Beishuiquan Town Central School in Yu County

Actively Participating in Emergency Rescue and Disaster Relief

The Company upheld the principle of "people first, life first" and actively participated in emergency rescue and disaster relief efforts. In 2024, subsidiaries of the Company were involved in 326 emergency rescue operations, including local mine rescues, fire suppression, and flood control and drainage efforts, mobilizing a total of 2,558 personnel. Their dedicated efforts made a significant contribution to safeguarding people's lives and property. In recognition of their outstanding performance, they received a commendation letter from the National Emergency Rescue Center for Work Safety, four letters of appreciation, and 13 banners of appreciation from various social groups.

In 2024

Subsidiaries of the Company were involved in



______ ∽ emergency rescue operations

Mobilizing a total of





Shaanxi Company Emergency Rescue Center Assisted in Hunan Flood Relief

On 5 July 2024, a piping hazard occurred along the first-line levee at Tuanzhou Dike in Huarong County, Yueyang, Hunan Province, causing a 226-meter breach and flooding 45 square kilometers, necessitating the emergency evacuation of over 7,680 residents. In response to this severe flooding, the Shaanxi Company Emergency Rescue Center (China Coal Yulin Team of the National Hazardous Chemicals Emergency Rescue Center) promptly deployed 24 elite rescue personnel, 6 specialized emergency rescue vehicles, and 26 sets of emergency equipment to the flood-stricken area in Yueyang on 10 July, working tirelessly to combat the disaster.

During the 17-day rescue operation, the rescue team demonstrated resilience, strategic planning, and precise execution, successfully draining 1.5077 million cubic meters of floodwater and making a vital contribution to safeguarding people's lives and property. Their outstanding performance earned widespread acclaim, receiving a letter of commendation from the National Emergency Rescue Center for Work Safety, a letter of appreciation from the Hunan Provincial Committee of the Communist Party of China, and a letter of gratitude from the Tuanzhou Dike Flood Control and Rescue Command in Huarong County, Hunan Province. Additionally, they were awarded 11 banners of appreciation from various social groups. Through dedicated action, the team embodied the responsibility of a central enterprise, showcasing the professionalism and dedication of a modern emergency rescue force.



Upholding the Spirit of Volunteerism

The Company remains committed to its social responsibilities, actively organizing employees to engage in volunteer services. Through ongoing initiatives such as "Caring for Migrant Workers' Children" and "Elderly Care and Assistance", as well as supporting large-scale events and other public welfare efforts, the Company continued to contribute positive energy to society. In 2024, the Company cumulatively conducted 150 community service programs and organized 676 volunteer activities, with a total of 5,685 employee participants. The

cumulative volunteer service hours surpassed 45,425 hours, with the company registering 11,080 volunteers, each contributing an average of 8 hours of service. Notably, the "Qing Shuo" Volunteer Association of Pingshuo Group was recognized for its outstanding performance and awarded the title of "Outstanding Youth Volunteer Service Group of Shanxi Province (2022-2023)", showcasing the strong sense of responsibility and dedication of China Coal employees.

In 2024

150

The Company cumulatively conducted

community service programs

and organized

676

volunteer activities,

5,685

employee participants

with a total of

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Continuing the Glory of the Era | Pingshuo Group Employee Wu Jiancheng Recognized on the "China Good People List"

On 31 January 2024, the 2023 Q4 'China Good People List' was announced at the National Models and Everyday Heroes Exchange Event in Dazu District, Chongqing. Wu Jiancheng, an employee of Pingshuo Group, was honored on the "Helping Others" Good People List.

As a veteran, Wu Jiancheng upheld the spirit of military service and a deep commitment to public welfare. In November 2018, he spearheaded the establishment of Shanxi's first veteran-led volunteer service team, the Shuozhou Red Cross Veterans Base Volunteer Service Team. Under his leadership, the team carried out various public welfare activities in schools and rural areas, including caring for left-behind children and assisting elderly individuals without family support. They also organized visits and relief efforts, voluntary blood donations, public awareness campaigns, and material transport services, demonstrating the unwavering sense of duty and dedication of veterans in the new era through tangible actions.





Shanghai Energy Company's youth volunteers provided dedicated and heartfelt service at the 6th National Coal Mine Workers' Sports Association Basketball Tournament, contributing to the successful completion of the event



"Qing Shuo" Volunteer Association of Pingshuo Group visited a special education school, delivering care and warmth to children with special needs through tangible actions

Engaging in Social Welfare Activities

The Company adhered to the principles of "willingness, clear responsibilities, actions based on ability, and credibility" in establishing and improving its donation management system. Through various means such as financial donations, material contributions, and public welfare activities, the Company gave back to society with a sincere heart. In 2024, the Company donated a total of RMB6.32 million to society, including the monetary equivalent of material contributions.

👌 💿 Shandong Company of Sales Group Organized Voluntary Blood Donation Activity 👘

On the occasion of Youth Day in 2024, Shandong Company of Sales Group launched a voluntary blood donation initiative under the theme "Promoting the Spirit of May Fourth, Passing on the Energy of Life." As a flagship corporate social responsibility program of Shandong Company, the voluntary blood donation campaign has been held consecutively for 16 years. Through their actions, participants carried forward the spirit of volunteerism and demonstrated the sense of responsibility of the youth in the new era with their dedication and compassion.





Tianjin Company of Sales Group organized a team of Party members and employees to visit Zhaojiapeng for "educational assistance and support" activity

Joint Development

Building a Sustainable Legacy

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China Coal Energy fully implemented General Secretary Xi Jinping's important discourse on building a modern enterprise system with Chinese characteristics. The Company established a modern corporate governance framework characterized by "statutory authority and responsibilities, transparency, coordinated operations, and effective checks and balances," achieving deep integration between Party leadership and corporate governance. Adhering to an innovation-driven approach, the Company operateed in compliance with laws and regulations, built a sustainable supply chain, and continuously fostered new

SUSTAINABLE GOALS





Upholding Innovation-Driven Growth

Recognizing technological innovation as a key engine for ensuring national energy security and leading the green and low-carbon transformation of the energy sector, China Coal Energy actively developed a technology innovation system with China Coal characteristics, continuously enhanced the quality and efficiency of industrial innovation, strengthened fundamental scientific and technological innovation capabilities, and deepened collaboration in scientific and technological innovation. Focused on its mission and responsibilities, the Company provided "China Coal's Solution" to safeguard national energy security and promoted a green and low-carbon transition within the industry reinforcing its leadership as a central enterprise in technological advancement and industrial upgrades within the energy sector.

Enhancing Technological Innovation Capabilities

Focusing on national needs, the Company actively leveraged the role of central enterprise in scientific and technological innovation. We strived to create a wellspring of original technologies in the field of industrial green and low-carbon development, centering on original innovation capabilities. We promoted highly efficient collaboration and high-level cooperation, emphasizing our central role of innovation. We worked together to build a more dynamic innovation ecosystem, focusing on reforming systems and mechanisms, injecting strong momentum into the Company's high-quality development.

By the end of 2024, the Company has 2,213 R&D personnel, with total investment in science and technology reaching RMB4.237 billion, accounting for 2.24% of its core business revenue.

	By the end of 2024, the Co	ompany had been approved for	
High-tech enterprises	"Specialized, sophisticated, and innovative" SMEs	"Specialized, sophisticated, and innovative" little giant enterprise	Echnology-driven SME
18	6	1	1
Innovation-driven SMEs	"Double Hundred Enterprises"	"Science and Technology Reform Demonstration Enterprises"	Enterprises recognized as manufacturing industry single champion product entities
2	3	3	4
	By the end of 2024, th	e Company had established	
National Energy Coal Mining Equipment R&D (Experimental) Center	National-Level Enterprise Technology Centers	National Energy Technology Equipment Evaluation Centers	National Accredited Laboratories
1	2	2	7
"Mass entrepreneurship and i demonstration bases	5	京津冀国家技术创	
4		き源 (氏 碳 创 新 中 心 I	E 37, #9 /#
		天津 方建建国家技术创新中心 折1	申心
	China Coal Ener	gy collaborated with the Jingjinji Nation	al Center of Technology

Innovation to establish Energy Low-Carbon Innovation Center

Table Innovation Platforms

National-Level R&D Platforms

Beijing-Tianjin-Hebei Energy Low-Carbon Innovation Center	National Energy R&D Center	National Enterprise Technology Center	Nationally Recognized Laboratories	National Postdoctoral Innovation Practice Base
Established in collaboration with the Jingjinji National Center of Technology Innovation, this center focused on national needs, industry trends, and corporate responsibilities. It explored a new R&D organizational model combining "national technological innovation bases + leading enterprises in the field," aiming to build a national strategic technological innovation force for disruptive technological innovation in energy and low- carbon sectors.	The only research and experimental center for mining equipment in the national energy sector, responsible for the development of intelligent mining systems, intelligent control systems, and the verification and optimization of key structural designs. It supported theoretical research and prototype testing for national key R&D programs.	Focused on safe, green, and intelligent coal mining, this center conducted research on comprehensive mining key technologies, disaster prevention and control (such as rock bursts, gas, water hazards, and roof collapses), experimental testing, and product development, forming a comprehensive scientific R&D system for coal mining equipment and disaster prevention.	Equipped with seven CNAS- accredited laboratories, capable of conducting coal quality testing and analysis, coal mining equipment and component testing, as well as raw material composition analysis.	A vital technological innovation platform that gathered high- level talent to advance core technology breakthroughs, transform scientific achievements, and foster industry-academia-research collaboration.

Directly Affiliated Research Institutes

Equipment research institute, coal chemical research institute.

Enterprise-Level Research Platforms

Engineering (technology) research centers, technology innovation centers, pilot platforms, enterprise key laboratories, innovation studios.

Technological Innovation Support Mechanisms

Optimizing Technological Innovation Investment Management

- Establishing a tiered and classified technological innovation investment model to precisely allocate resources and enhance investment efficiency.
- Establishing management mechanisms for R&D activities, the transformation of innovation achievements, and demonstration application projects to stimulate vitality of investment in scientific and technological innovation, mitigate and control technology investment risks, and improve the quality and effectiveness of technology investment.

Strengthening Technology Investment Guarantee & Management

- Developing a technology investment management framework to ensure rational allocation and efficient utilization of R&D funds.
- Establishing a mechanism for stable and sustained growth in technology investment to improve funding quality and effectiveness.

Stimulating Technological Innovation Vitality

• Creating a reward mechanism for technological innovation, clearly defining the scope of rewards to motivate researchers and teams to foster a positive atmosphere for technological innovation.

Actively Undertaking Scientific and Technological Breakthrough Missions

The Company is committed to advancing the need of national energy strategic security, facilitating the green and low-carbon transition, and achieving technological self-sufficiency. It actively undertook national scientific and technological breakthrough missions, vigorously promoted breakthroughs in key core technologies, and achieved a series of pioneering and transformative technological innovations.



Shaanxi Company's Dahaize Coal Mine, one of the first national intelligent demonstration coal mines, achieved full-process intelligent operation from "mining-tunneling-transporting-washing-selling", resulting in key technologies and application achievements for the intelligent construction of the world's largest shaft coal mine with a capacity of 20 million tonnes, which was selected as one of the "Top 10 Technological Innovations in the National Energy Sector in 2023" by National Energy Administration and was awarded the First Prize for Scientific and Technological Progress by the China National Coal Association.



This system was implemented in the intelligent excavation project at Wangjialing Coal Mine of Huajin Group. It adopted an intelligent excavation model where "automated face control is primary, supplemented by remote intervention from the centralized control center." The system innovatively established a "four-in-one" technological framework integrating excavation, support, transportation, and auxiliary operations. This breakthrough significantly enhanced the intelligence level of excavation equipment, particularly road headers, filling a critical gap in the industry, and was selected for the National Energy Administration's fourth list of first-of-a-kind major technical equipment in the energy sector.



Zhangjiakou Coal Mining Machinery Company developed the world's first 8MW ultra-long-distance intelligent scraper conveyor system, featuring a transport capacity of 6,000 tonnes–8,000 tonnes per hour and a transport distance of 400 meters to 600 meters

Enhancing the Technological Innovation Mechanism

The Company was deeply integrated into the national innovation system, adhering to China Coal's distinctive "Internal Innovation Core + External Innovation Hub System" technological innovation model. It ensured a seamless "Science-Technology-Engineering-Market" innovation cycle, establishing a "six in one" scientific and technological innovation system centered on "projects, platforms, talent, investment, management, and mechanisms". By strengthening collaborative innovation between industry, academia, and research institutions, the Company leveraged technological advancements to drive industrial innovation, laying a solid foundation for enhancing its core competitiveness.

China Coal's Characteristic Technological Innovation System

Internal Innovation Core + External Innovation Hub System

The Company leveraged the synergy between its "Internal Innovation Core" comprising strategic, pioneering, R&D, and transformation layers—and utilized the "External Innovation Hub", which included leading platforms, research institutions, high-end talent, and technology finance. By integrating Internal Innovation Core + External Innovation Hub, the Internal Innovation Core steered the External Innovation Hub, while the External Innovation Hub empowered the Internal Innovation Core, forming a mutually reinforcing innovation framework. "Science-Technology-Engineering-Market" Technological Innovation Cycle

On the innovation chain encompassing basic research, technological development, engineering demonstration, and industrialization, the Company explored and established an interactive cycle where the supply side moved from front to back and the demand side moved from back to front. This dual-directional approach simultaneously drove the deep integration of industry, academia, research, and application, as well as the efficient transformation of scientific and technological achievements. "Six-in-One" Scientific and Technological Innovation System

Project implementation drove technological research and development, platform construction, and talent cultivation. Talent introduction and development enhanced platform capabilities and project R&D quality. Platform construction attracted high-end talent and facilitated the implementation of major projects. R&D investment ensured funding for scientific and technological activities. Scientific management promoted organized research and optimal allocation of innovation resources. Mechanism reform stimulated the vitality and motivation of innovation entities

Intellectual Property Protection

The Company placed high importance on intellectual property protection, strictly adhered to national laws and regulations related to intellectual property rights and introduced systems such as the Administrative Measures for the Protection of Intellectual Property Rights (Trial) to standardize all stages of intellectual property creation. It explored capitalization pathways and was selected for relevant pilot programs by the SASAC of the State Council to enhance the role of intellectual property in driving technological innovation and achievement transformation. The Company promptly applied for patents, registered trademarks, conducted copyright registrations, strengthened the protection of trade secrets, employed digital management methods, and explored the use of blockchain technology to elevate protection levels, thereby fortifying the protection wall of intellectual property. In 2024, the Company filed a total of 465 patent applications and won 47 science and technology progress awards for industry-leading performance, including 19 awards from the China National Coal Association for Scientific and Technological Progress.

Indicator	2023	2024
Total patent applications	311	465
Of which: total invention patent applications	111	175
Total patents granted	273	276
Of which: total invention patents granted	36	74
Industry-level and above science & technology progress awards	29	47

Driving Digital Empowerment for Development

The Company is fully committed to implementing the high-quality development and digital transformation directives set forth by the Central Committee of the CPC and the State Council. It continued to advance the "Digital China Coal" initiative, fostering a digital transformation and intelligence upgrade guided by the principles of "comprehensive coordination, resource integration, value extraction, and full-scale empowerment." Anchored in cloud-based business operations, data-driven management, and intelligent digital industries, the Company built a digital foundation to enhance intelligent production and data-driven management, drove new business models in sales and procurement, and injected fresh momentum into high-quality development.

The Company implemented an enterprise-wide "intelligent control" project, spanning full-chain coordination in production and operations, end-to-end integration in business management, global allocation in strategic control, and panoramic intelligent control in strategic decision-making. It focused on building an intensive platform matrix that integrated digital technology platforms and big data platforms, fully streamlining the Company's production and operations management, driving business model innovation, and fostering new quality productive forces for China Coal Energy.





The "Intelligent Control" project commenced trial operations, driving the realization of full-chain coordination in production and operations, end-to-end integration in business management, global allocation in strategic control, and panoramic intelligent control in strategic decision-making

Enhancing Governance Efficiency

Strengthening Corporate Governance

The Company adhered to the Company Law, Securities Law, and other relevant laws and regulations, establishing a modern corporate governance framework centered on the general meeting of shareholders, the Party Committee, the Board of Directors, the Board of Supervisors, and the executive management. This structure ensured clear delineation of authority and responsibilities, standardized operations, and highly efficient collaboration. All resolutions by governance bodies strictly followed the "majority rule" principle. As the highest decision-making authority, the general meeting of shareholders was responsible for major corporate decisions, achieving an optimal balance between internal checks and balances and operational efficiency while safeguarding the rights and interests of shareholders and stakeholders in compliance with legal and regulatory requirements.

The Company established a series of institutional documents, including the Articles of Association, Rules of Procedure for

the Party Committee, Rules of Procedure for the General Meeting of Shareholders, Rules of Procedure for the Board of Directors, Rules of Procedure for the Board of Supervisors, and Rules of Procedure for the Executive Management. These documents provided a solid institutional foundation for the Company's standardized operations, the full play of the Party's core leadership role, the protection of shareholders' rights, the effective performance of the Board of Directors and the Board of Supervisors, and the promotion of efficient management operations. Additionally, the Company continued to optimize its information disclosure mechanisms, ensuring transparency and accuracy to further enhance governance efficiency. In 2024, the Company maintained strict compliance with laws, regulations, and policy requirements, fully implementing compliance-driven operations, demonstrating exemplary governance standards and robust compliance management capabilities.



Overview of committee meetings in 2024

In 2024



Standardizing Board and Executive Remuneration Management

The Company established a Remuneration Committee under the Board, responsible for formulating remuneration policies and frameworks for directors and senior management. The committee managed and periodically reviewed long-term remuneration awards or equity incentive plans in respect of directors, employees and senior management. The executive board was responsible for approving remuneration policies and submitting annual salary, benefits, and equity incentive proposals for directors and senior management to the Board for review. The remuneration plan for directors proposed by the Remuneration Committee must be approved by the Board before submission to the general meeting of shareholders for final approval and implementation. The remuneration distribution plan for senior management of the Company must be submitted to the Board for approval. The committee strictly ensured that directors and their associates did not participate in the determination of their own remuneration.

Enhancing Governance Diversity

The Company deeply recognized the profound value of diversity in corporate governance. In structuring the Board and during the nomination process, it not only focused on evaluating candidates' professional expertise and industry experience but also comprehensively considered diverse factors such as gender, ethnicity, and cultural background. This approach aimed to infuse the Board with diverse perspectives and foster collective wisdom. The Nomination Committee dynamically and precisely defined the scope of diversity considerations based on the Company's strategic layout and development stage. It strictly aligned with the regulatory requirements for Board composition under the listing rules of the Shanghai Stock Exchange and the Hong Kong Stock Exchange, scientifically formulating quantifiable and actionable diversity goals for Board members. The Company regularly conducted diversity and inclusion training for Board members and senior management, comprehensively enhancing Board effectiveness and corporate governance quality.

In 2024



Optimizing Investor Relations Management

The Company upheld the principles of "proactivity, precision, coordination, effectiveness, comprehensiveness, integrity, and compliance" in investor relations management. It established a comprehensive Investor Relations Management Policy and a multi-dimensional interactive communication framework. By utilizing diverse communication channels such as investor relations hotlines, investor mailboxes, and the "SSE e-Interaction" platform, the Company systematically enhanced communication efficiency. Through methods such as investor conference calls, investor visits, earnings briefings, roadshows, reverse roadshows, and participation in investor forums, the Company maintained full and effective two-way communication with domestic and international investors, continuously conveying the Company's value and upholding a positive image in the capital markets.

In 2024, the Company held two general meetings of shareholders using a combination of on-site and online voting to ensure fair and transparent resolutions, creating an environment of

In 2024

equal participation in corporate governance for investors and effectively safeguarding their rights. For major matters affecting minority shareholders, the Company conducted separate voting and disclosure in strict compliance with regulations, ensuring full respect and protection of their rights. Throughout the year, the Company held 134 investor-related events, including regular results briefings, special dividend distribution meetings, roadshows, and reverse roadshows, reaching nearly 600,000 investors. As an innovative initiative for a central enterprisecontrolled listed company, the Company pioneered a monthly business operations briefing mechanism and successfully hosted the "institutional investors' visit to central enterprises" event, significantly enhancing investors' understanding and recognition of the Company. Additionally, through investor research forums, the Company engaged in in-depth discussions on key topics such as corporate reform and development, strategic planning, major project construction, and future dividend plans, reinforcing market confidence in its growth trajectory.



Continuously Improving Information Disclosure Quality

The Company steadfastly adhered to the principles of "truthfulness, accuracy, completeness, timeliness, and fairness" in information disclosure. It strictly followed the latest disclosure standards and industry guidelines both domestically and internationally, carefully aligning with the regulatory requirements of both the Shanghai and Hong Kong stock exchanges. The Company fulfilled its information disclosure obligations in a lawful and compliant manner, continuously optimizing the content and diversifying the methods of disclosure. It firmly rejected false statements, misleading representations, or any material omissions. In 2024, the Company successfully completed the preparation and disclosure of high-quality A+H share periodic reports, ESG reports, quarterly reports, results reports, and interim announcements, issuing a total of over 60 announcements and more than 260 articles. The Company also compiled 4 visualized regular reports, achieving zero inquiries from regulatory authorities. The Company's information disclosure efforts have earned the A-grade rating from the Shanghai Stock Exchange for 15 consecutive years, showcasing its outstanding governance and transparency in the capital markets.

By the end of 2024

The Company has received an

A-grade

rating for information disclosure from the Shanghai Stock Exchange for

15 consecutive years



Strengthening Risk Early Warning and Management

The Company continually enhanced its major risk assessment and monitoring mechanism, which followed a "yearly forecast, quarterly monitoring, and year-end evaluation" approach. Focusing on the main workline of "goals, risks, and controls," the Company carefully identified weaknesses and potential risk points in its operational and management processes.

In accordance with the principle that "risk management must accompany business management," the Company established a "classification, tiered, and graded" risk management system. It promoted the integration of risk management into daily operations, strengthened collaboration across departments, and fostered coordinated efforts between the headquarters and subsidiary enterprises. Risk control situations were monitored and summarized quarterly and reported accordingly. The Company reinforced its comprehensive risk and internal control management system by setting up communication and reporting mechanisms, clearly defining the types, templates, and timelines for regular and interim reports, and establishing a reporting system for major risk events. It also set up risk monitoring indicators to create a long-term risk management system that facilitates early detection, early warning, and early resolution.

Optimizing Risk Assessment Mechanism

- Develop and implement an annual comprehensive risk management plan, ensuring thorough risk assessment and responses for the year.
- Regularly identify material risk types based on changes in the industry, domestic and international market environments, and commodity prices, and continually optimize monitoring models to objectively reflect risk characteristics and propose targeted risk response measures.

Improving Risk Assessment Methods

- Utilize methods such as questionnaire surveys, risk coordinate charts, expert consultations, and stress testing to evaluate risks from both the likelihood of occurrence and the degree of impact. The entire system evaluates 62 secondary risks listed in the risk assessment questionnaire, scoring each item to determine the preliminary risk ranking.
- Organize risk interviews and, through analysis, identify three major risks and two important risks that the Company will face in 2024.



Risk Early Warning Indicators and Special Risk Assessment Guidelines

• Develop 23 qualitative and quantitative risk monitoring indicators. Formulate 4 special risk assessment guidelines for investment, construction projects, labor employment, and social stability.

Adhering to Business Ethics

Upholding Legal and Regulatory Compliance

The Company fully implemented the national strategy of governing the country according to law and complies with the legal and regulatory management requirements set by the SASAC. It developed the Compliance Management Measures of China Coal Energy to establish a tiered and collaborative compliance management system and operational mechanism. The Company constructed a management system based on its Articles of Association, clarifying the management processes for various policies and ensuring that systems were clear, compliant, and interconnected. Compliance review was embedded as a mandatory procedure within business processes, including the formulation of rules and regulations, major decision-making matters, and contract signing.

The Company built a treasury system and a financial shared services center, enabling seamless integration and end-to-end visibility of financial and business data. Additionally, it established a unified data lake platform to consolidate data across all business chains, effectively supporting strategic decision-making, operational activity analysis, and financial risk management.

The Company established an internal audit system, deepened the vertical management of audit institutions and personnel, and strengthened quality control throughout the entire audit process. A quality review and consultation mechanism was implemented to continuously improve audit effectiveness. We increased the frequency of personnel exchanges, both vertically and horizontally, to optimize the professional configuration of the audit team. We scientifically formulated and dynamically adjusted annual audit plans, conducted economic responsibility audits for terms of office and special audits, implemented follow-up audits for key projects, and promoted a commitment to high-quality audit work. We also strengthened the utilization of audit findings, focusing on value creation and safeguarding the company's high-quality development.

In 2024, the Company proposed 145 audit rectification recommendations, with no major compliance risks or significant violations of law or integrity by the Company or its legal representatives.

Preventing Unfair Competition

The Company strictly complied with the Anti-Unfair Competition Law of the People's Republic of China and other relevant laws, regulations, and policies, maintaining principles of honesty, trustworthiness, equal negotiation, and mutual benefit. It is committed to upholding fairness in market order and regulating the signing and execution of long-term coal contracts. The Company established a coal and coal chemical products marketing management system, rigorously implementing customer admission standards and customer rating procedures. It ensured that contracts with business partners were signed in accordance with the law and regulations, continuously monitored the creditworthiness and performance capabilities of commercial partners, and emphasized the fulfillment of key compliance obligations. The Company was dedicated to fostering mutually respectful, trustworthy, and fair business relationships with its partners.



Anti-Commercial Bribery and Anti-Corruption

The Company continuously optimized and improved its institutional mechanisms, establishing the Disciplinary Inspection and Party Committee Mechanism for Promoting Comprehensive Strict Governance of the Party to advance the "integration and coordination of the 'two responsibilities' in comprehensively and strictly governing the Party" and ensure effective coordination. It precisely and standardly applied the "four forms" of discipline enforcement, and opposed all forms of commercial bribery, extortion, fraud, and money laundering. The Company strengthened its anti-commercial bribery and anti-corruption risk assessments, implemented anti-corruption risk prevention measures, and formulated practical prevention and control plans. The Company carried out Party conduct and integrity education and training for directors, supervisors, senior management, middle management, Party members and cadres, and general employees to address corruption risks at the source.

The Company issued management systems such as the Implementation Measures for the Management of Problem Clues and carried out petition reporting and case investigation work strictly in accordance with laws and regulations. It ensured smooth channels for petition reporting and handled suspected corruption cases in compliance with rules, discipline, and laws. The Company fully leveraged the functions of the leading group for Party Conduct and Clean Government Construction and Anti-Corruption Work, promoted collaborative case handling, and conducted joint supervision and inspections. In response to issues identified through petition reports, supervision checks, investigations, inspections, and audits, the Company carried out targeted rectification work. The Company strictly maintained confidentiality regarding the identity, workplace, address, and contents of complaints in accordance with the Rules for the Handling of Whistleblower Complaints by Disciplinary Inspection and Supervision Organs. In 2024, the Company had zero corruption litigation cases.

In 2024



"Study the Regulations, Clarify Boundaries, and Foster Reverence" themed Party day event by Huajin Group
Enhancing the Deterrence of "Not Dare to Corrupt"

- The Company actively built a comprehensive, full-process, and all-encompassing regulatory framework focusing on key areas and potential corruption risks.
- Regular supervision and special inspections were conducted on "top leaders" at all levels, resulting in evaluation reports. In 2024, the Company's Party Committee and discipline inspection commission's top officials conducted 118 integrity talks with the leaders of affiliated enterprises.
- Routine inspections, corrective assessments, and supervision were carried out for secondary enterprises.

Tightening the "Cannot Corrupt" Cage

- The Company established and improved systems such as the Party Committee Management Measures for Pre-appointment Integrity Talks and Management Measures for Integrity Files of Leadership Personnel.
- The Supplier Cooperation Management Measures and Supplier Dishonesty Management Rules were formulated, integrating the requirement for signing integrity assurance agreements and enhancing background checks on partner enterprises.
- The Company collected information on integrity risks, analyzed the specific manifestations of emerging and hidden corruption, and provided support and basis for preventing commercial bribery and corruption risks.

Strengthening the Awareness of "Unwilling to Corrupt"

- Large warning education meetings were held, with middle and senior management of affiliated enterprises watching video case studies of corruption, analyzing typical disciplinary violations and illegal cases in recent years.
- The Company established clean governance culture demonstration points and clean governance education bases.
- A clean governance micro-video collection campaign was organized, followed by an evaluation of the submitted works.
- In 2024, the Company sent 9,696 clean governance reminder messages.



On-site shooting for the anti-corruption and clean governance micro-video by Shanghai Energy Company

Strengthening Party Leadership

Guided by General Secretary Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era, the Company's Party Committee earnestly implemented the important speeches, instructions, and directives of General Secretary Xi Jinping. It solidified and expanded the achievements of thematic education, conducted rigorous studies on Party discipline, and strictly fulfilled the main responsibility for comprehensive strict governance of the Party. The Company seriously advanced the rectification of issues raised in the feedback from the Party Committee of the SASAC of the State Council, further carried out the action plan for enhancing the quality and efficiency of Party building in central enterprises and deeply integrated Party leadership into all aspects of corporate governance, providing strong political support for the Company's high-quality development.

Strengthening Political Party Building

The Company continually refined the "first agenda item" system, kept up with learning the latest important speeches and instructions from General Secretary Xi Jinping, formulated targeted measures for implementation, established an information management system, and enhanced tracking and supervision to ensure the implementation of major decisions and deployments of the Central Committee of CPC. In cooperation with the inspection of the Party Committee of the SASAC of the State Council, the Company advanced the rectification of feedback with high standards, basically achieving the main goals during the concentrated rectification period. It also followed up on feedback from the comprehensive evaluation of the implementation of General Secretary Xi Jinping's important instructions and Party building responsibility system, and used lessons learned to develop rectification measures that promote the improvement of Party building quality.

Deepening Ideological and Theoretical Strengthening

The Company formulated an implementation plan to consolidate and expanded the achievements of thematic education, revising the methods for the Party Committee's central group learning. The central group conducted 9 thematic learning sessions. It deeply promoted the study and implementation of the spirit of the 20th Party Congress and the Third Plenary Session of the 20th Central Committee, organizing management personnel at the mine (factory, department) level and above to attend training sessions for central enterprise cadres, while also organizing all Party members for online training. Party organizations at all levels conducted a total of 1,492 exchange and discussion sessions. The Company firmly implemented Party discipline education by developing sustained and effective measures, ensuring continuous learning and adherence to Party rules, regulations, and discipline.



On 7 June 2024, the Company's Party Committee organized a visit to the "Upholding Discipline to Forge Loyalty, Taking Responsibility to Build New Achievements" party discipline education exhibition hosted by the Party Committee of the SASAC of the State Council



On 1 July 2024, Wang Shudong, the Secretary of the Party Committee and Chairman of the Company, delivered a special Party lecture

Six Key Research Projects Were Honored with the "2023 Key Research Topics on Party Building and Ideological-Political Work in the Coal Industry" Awards

In October 2024, the China Coal Workers' Ideological and Political Work Research Association published the Notice on Announcing the Outstanding Achievements of the 2023 Key Research Topics on Party Building and Ideological-Political Work in the Coal Industry. Six topics from China Coal Energy were awarded. Among them, two topics recommended by the Company's headquarters and Shanghai Energy Company received first prize, while four topics recommended by Shanghai Energy Company, Shaanxi Company, and Development Company received third prize.

Strengthening Grassroots Foundation Work

The Company thoroughly implemented the "seven actions program" for improving grassroots Party building quality and efficiency in central enterprises. It promoted the "six-management model" for Party-led safety management, held training sessions in a tiered and categorized manner, strengthened the application of the "digital party building" system, and conducted activities to create distinctive brands for grassroots Party organizations. The Company strictly enforced the Party building responsibility system, promoted Party Committee members' involvement in Party building at the grassroots level, and continued to integrate Party building efforts with production and business operations, improving the overall level of Party building work.

The Company had	45	There were
105	4J Party general branches	16,565 Party members
grassroots Party organizons	and	Of which,
	1,179	392
	Party branches were established	new members were added during the year of 2024

By the end of 2024

Å

Vanguard Leadership | Seven Individuals and Four Collectives Awarded "Two Excellence and One First" Recognition by the Party Committee of the SASAC of the State Council for Central Enterprises

On 27 June 2024, the Party Committee of the SASAC of the State Council held the "Two Excellence and One First" Awards Ceremony for central enterprises. Two Party members of the Company were awarded the title of "Outstanding Communist Party Member of Central Enterprises, " one Party worker was recognized as an "Outstanding Party Worker of Central Enterprises, " and two grassroots Party organizations were honored with the "Advanced Grassroots Party Organization of Central Enterprises" award.

On 26 September 2024, the Party Committee of the SASAC of the State Council held a ceremony to honor advanced collectives and model workers in central enterprises. Four Party members of the Company were awarded the title of "Labor Model of Central Enterprises," and two grassroots units received the "Advanced Collective of Central Enterprises" award.

Developing a Sustainable Supply Chain

The Company actively practiced the new development concept of innovation, coordination, green, openness, and sharing. It established a supply chain platform with "unified standards, unified regulations, and unified processes," balancing business expansion with risk prevention. By efficiently and systematically advancing supplier collaborations and conducting indepth sustainability due diligence, the Company is committed to building a modern supply chain that is lean, collaborative, international, intelligent, and green.

Advancing Supplier Access Management

The Company built a "unified management, graded responsibility" supplier lifecycle management system that covered registration and entry, performance management, and surviving of the fittest. This strengthened the overall efficiency of supplier management. To enhance integrity and compliance, the Company promoted transparent procurement mechanisms and a market-driven procurement system, requiring suppliers to sign integrity commitment letters to ensure openness and transparency throughout the procurement process. At the same time, the Company strictly controled supplier access, focusing on reviewing suppliers' performance in areas such as honesty, labor rights protection, and occupational health and safety. These evaluations were incorporated into the supplier selection system to ensure the compliance and sustainability of the supply chain from the outset.

By the end of 2024, the Company had 164, 594 suppliers, of which 164, 479 were based in China, and 115 were overseas. In 2024, the Company achieved a public procurement rate of 98. 69%.







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Strengthening Supply Chain Risk Management

The Company is committed to building an autonomous, controllable, safe, and reliable supply system in key areas and points. It systematically identified and assessed supply chain risks, developing corresponding risk management strategies based on the evaluation results. These strategies were implemented with a tiered, categorized approach, continuously strengthening risk monitoring and feedback. To improve supply chain transparency and sustainability, the Company assembled an 80-member due diligence team to conduct related work. The Company established a supplier risk early warning system and introduced third-party risk identification tools to conduct comprehensive reviews of suppliers' business qualifications, legal litigation records, compliance risks, and environmental violations, ensuring comprehensive supervision of supplier risks and the stable operation of the supply chain.

Strengthening and Solidifying the Supply Chain | Key Measures to Enhance Supply Chain Security and Resilience



Promoting Sustainable Development of the Supply Chain

The Company continuously strengthened its guidance on green supply chain management, formulating supplier cooperation management measures and clearly defining green evaluation requirements for suppliers. It established a comprehensive quantitative assessment index system for suppliers across their entire lifecycle, incorporating green standards into supplier assessments. By integrating green indicators into review criteria and other methods, the Company encouraged suppliers to develop green products and services, thereby driving the green transformation and sustainable development of the supply chain. In 2024, the Company conducted two ESG training sessions for suppliers, covering 15,345 non-bidder members and 13,972 bidder members.

The Company treated small and medium-sized suppliers equitably, with most procurement projects adhering to an immediate payment rule. For some goods-related procurement projects, payment was made three months after delivery, aligning with the payment terms for other types of suppliers. This approach ensured the maintenance of positive and cooperative relationships with small and medium-sized enterprises. During the reporting period, all projects that were duly completed and accepted had their payments settled. However, due to issues such as non-compliance with project deliverables, disputes, or supplier account problems, overdue payments to small and medium-sized enterprises amounted to RMB14.661 million. We attached great importance to this issue and have taken proactive measures to address the matter, ensuring it was resolved appropriately.

In 2024

The Company conducted

2 ESG training sessions for suppliers, covering



and **13,972** bidder members

Future Outlook

With the arrival of spring, a new chapter begins.

2025 marks the final year of the "14th Five-Year" Plan and the first year of the "15th Five-Year" Plan. It is also a year of preparation for the "15th Five-Year" Plan. At this pivotal point of transition, we remain steadfast in our original mission and continue to bear our responsibilities. With a new starting point and new journey ahead, we are committed to unwaveringly implementing the "four reforms and one cooperation" energy security strategy. We will make every effort to safeguard the energy needs of people's livelihoods, fully and accurately execute the new development concept, pursue change and leapfrog development, and stimulate new momentum for sustainable development.

Moving Forward with Green Development

We will lead the green and low-carbon transformation with the concept of "producing coal without emitting carbon." Focusing on the "coal chain" and "carbon chain," we will promote the integrated development of "coal-power-chemical-new energy," optimize coal resource development layouts, accelerate the growth of the new energy industry, and focus on carbon sink development and technological innovation. Our efforts will center on reducing carbon, controlling carbon emissions, and utilizing carbon effectively. We will vigorously advance green coal mining, clean and efficient transformation and utilization, speed up the research and development of advanced technologies and the application of high-efficiency equipment, and encourage the development of a circular economy in mining areas. We aim to improve energy utilization efficiency, promote ecological restoration, and build green mines, resolutely following the path of low-carbon, high-quality development, striving to be a "pioneer" in green development.

Taking Responsibility to Create a Better Future

We will fully leverage our role as the "pillar" and "solid foundation" of national energy security and stable supply, focusing on "overall safety" management. We will continuously build long-term safety production mechanisms, firmly maintaining safety production bottom lines, and strive to ensure coal production increases, electricity generation maintains supply, and clean energy remains green and sustainable. We will actively participate in the construction of national coal reserve bases and accelerate the establishment of a modern coal industry system characterized by intelligence, green development, and integration, which meets the requirements of completeness, advancement, and safety. We are committed to building a unique corporate culture at China Coal, fostering the growth of both employees and the Company. We will also give back to society by promoting the effective connection of poverty alleviation achievements with rural revitalization and shaping a responsible, accountable, and compassionate image of China Coal.

Innovating for Effective Governance and Sustainable Growth

We will adhere to Party leadership, deepen quality improvement and efficiency enhancement, and maintain a steady and sound operating situation. We will actively integrate into the global energy market, respond to the Belt and Road Initiative, and continue to advance international energy cooperation. As pioneers in energy technology innovation, we will focus on solving core technical challenges in the energy sector and push forward the intelligent and digital transformation of mining. We will strengthen compliance management, improve our ability for transparent supervision, and ensure major risks are controllable and under control. We will deepen reforms, continue to enforce strict governance of the Party, and improve the scientific and standardized modern corporate governance structure. The Board will continue to play a core role in decision-making, and we will promote lean management to enhance operational efficiency and competitiveness.

Looking ahead, China Coal Energy is committed to building a world-class energy enterprise. We will focus on enhancing core functions and improving core competitiveness, fully leveraging our capabilities in technological innovation, industrial control, and safety support. With superior technological innovation, a more competitive value creation capacity, and high-quality products and services, China Coal Energy will provide robust support for the green and low-carbon development of the energy industry and the coal sector, contributing to a new chapter in global energy transformation and sustainable development.

We sincerely thank all our friends and partners for their support and trust in China Coal Energy! We look forward to broader and deeper cooperation with all sectors of society as we jointly embrace a brighter future.

Appendix

Key Performance Indicators

1. Environmental Performance

Environmental Performance					
First Tier Indicators	Second Tier Indicators	Unit	2022	2023	2024
	Total raw coal consumption	10 thousand tonnes	1,976	2,047	1,993
	Total oil consumption	10 thousand tonnes	15.4	15.3	17.9
	Total electricity consumption	100 million kWh	52.34	56.49	47.47
Consumption of Energy	Total energy consumption	10 thousand tonnes standard coal	1,151	1,192	1,150
Resources	Integrated energy consumption per RMB10,000 worth of production output	Tonnes standard coal/ RMB10,000	1.200	1.209	1.200
	Freshwater consumption	10 thousand tonnes	6,596	6,844	7,030
	Fresh water consumption per RMB10,000 worth of production output	Tonnes/RMB10,000	6.88	6.94	7.29
	Water reuse rate	%	98.10	98.11	98.44
Resource Utilisation	Comprehensive utilization rate of mine water	%	96.2	97.9	97.2
e unoution	Comprehensive utilization rate of coal gangue	%	96.9	97.2	95.3
	Sulfur dioxide emissions	Tonne	1,934	1,701	1,539
	Nitrogen oxide emissions	Tonne	3,324	3,299	3,172
	Emission volume of soot	Tonne	669	713	526
Emission	Ammonia nitrogen emission	Tonne	7	7	7
	Emission volume of chemical oxygen demand	Tonne	120	131	129
	Total emission volume of volatile organic compounds (VOCs)	Tonne	*	3,650	4,222
	Coal gangue production	10 thousand tonnes	1,908	2,019	2,009
Majority	Hazardous waste generation	10 thousand tonnes	14.2	17.4	22.7
Solid Waste	Amount of hazardous waste produced per RMB10,000 worth of production output	Kg/RMB10,000	14.8	17.6	23.6
	Total greenhouse gas emissions	10 thousand tonnes of carbon dioxide equivalent	4,633 (restated)	4,677 (restated)	4,708
Carbon	Of which: Total direct greenhouse gas emissions (Scope 1)	10 thousand tonnes of carbon dioxide equivalent	3,647 (restated)	3,708 (restated)	3,704
Emission	Of which: Total indirect greenhouse gas emissions (Scope 2)	10 thousand tonnes of carbon dioxide equivalent	986 (restated)	969 (restated)	1,004
	Emission intensity	Tonnes of carbon carbon dioxide /RMB10,000	4.83 (restated)	4.74 (restated)	4.88

2. Social Performance

Social Performance						
First Tier Indicators	Second	Tier Indicators	Unit	2022	2023	2024
	Total number of emp	Person	46,450	47,122	46,452	
	Labour contracts sig	ning rate	%	100	100	100
	Social insurance cove	erage rate	%	100	100	100
	Trade union member	rship rate	%	100	100	100
	Employee turnover r	ate	%	1.5	1.1	1.2
	Total workforce by	Total male employees	Person	38,877	39,453	39,272
	gender	Total female employees	Person	7,573	7,669	7,180
		Aged 30 and below	Person	6,576	6,521	5,909
	Total workforce by age group	Aged 31-40	Person	19,033	19,745	19,585
		Aged 41-50	Person	12,342	12,467	12,463
		Aged 51 and over	Person	8,499	8,389	8,495
	Total workforce by employment type	Full-time	Person	46,450	47,122	46,452
Employees		Part-time	Person	0	0	0
		Northern China	Person	24,915	25,588	24,697
	Total workforce by	Eastern China	Person	12,294	12,416	11,685
	geographical region	Northeastern China	Person	476	1,133	1,107
		Northwestern China	Person	8,765	7,985	8,963
	Employee turnover rate by gender	Turnover ratio of male employees	%	1.53	1.14	1.23
		Turnover ratio of female employees	%	1.58	1.02	0.99
	Employee turnover	Aged 30 and below	%	3.04	0.92	2.94
		Aged 31-40	%	1.88	1.71	1.07
	rate by age group	Aged 41-50	%	0.70	0.66	0.70
		Aged 51 and over	%	0.84	0.58	0.98

Social Performance						
First Tier Indicators	Second	Tier Indicators	Unit	2022	2023	2024
		Northern China	%	2.33	2.17	0.86
	Employee turnover rate by geographical region	Eastern China	%	1.31	0.93	1.69
		Northeastern China	%	1.05	0.88	0.81
		Northwestern China	%	1.13	0.46	1.50
	The percentage of	Male	%	75	76	77
	employees trained by gender	Female	%	72	71	73
	The percentage of employees trained	Operation and management personnel	%	91	87	88
	by employee category	Professional and technical personnel	%	72	77	78
Employees	The average training hours completed per employee by gender	Male	Hour	22.0	22.8	23.1
		Female	Hour	20.8	22.6	22.8
	The average training hours completed per employee by employee category	Operation and management personnel	Hour	27	27	28
		Professional and technical personnel	Hour	23	25	26
	Number of work-rela	ted fatalities	Person	7	5	4
	Safety accident-relate	ed casualties	Person	5	3	3
	Rate of work-related	casualties	%	0.015	0.011	0.008
	Loss of workdays due to work-related injuries		Day	16,827	12,007	8,429
Rural revitalization expenditure		nd social welfare	RMB100 million	8,652	4,161	4,392
Contribution to	Tax paid		RMB100 million	282.39	269.69	249.70
Community	Total social contribut	ion	RMB100 million	708.39 (restated)	718.77	693.95
	Social contribution p	er share	RMB	5.34	5.42	5.23

3. Governance Performance

Governance Performance						
First Tier Indicators	Seco	ond Tier Indicators	Unit	2022	2023	2024t
	Total assets	RMB100 million	3,402.23 (restated)	3,493.60	3,579.65	
Financial	Net assets attribu Company	table to the equity holders of the	RMB100 million	1,308.65 (restated)	1,441.21	1,519.11
Performance	Operating revenue	9	RMB100 million	2,205.77	1,929.69	1,893.99
	Total profit		RMB100 million	328.97	330.49	315.80
	Production volum	e of commercial coal	10 thousand tonnes	11,917	13,422	13,757
	Sales volume of c	ommercial coal	10 thousand tonnes	26,295	28,494	28,483
	Production volum	e of polyethylene	10 thousand tonnes	148.0	148.7	151.4
Product Output	Production volume of urea		10 thousand tonnes	183.4	206.6	187.1
	Production volume of methanol		10 thousand tonnes	187.9	190.1	173.0
	Production volume of ammonium nitrate		10 thousand tonnes	47.4	58.2	57.5
	Production value of coal mining equipment		RMB100 million	99.6	114.3	103.5
Products and	Valid complaints		Case	0	0	0
Services	Percentage of products subject to recalls for safety and health reasons in sold or shipped products		%	0	0	0
Ta aliana la mina l	Investment in science and technology		RMB100 million	44.78	42.79	42.37
Technological Innovation Number of techn above industry le			Award	29	29	47
	Number of patent	s received	Award	257	273	276
Production Safety	Safety production	expenses	RMB100 million	19.21	28.68	32.29
	Total number of s	uppliers	Supplier	105,739	133,975	164,594
	Number of	Asia (excluding China)	Supplier	35	36	36
	overseas	North America	Supplier	20	22	22
	suppliers	Europe	Supplier	37	47	57
Supply chain Management		Northeastern China	Supplier	3,595	4,439	5,263
	Number of domestic suppliers	Northern China	Supplier	42,938	55,107	66,455
		Eastern China	Supplier	31,786	39,373	47,728
		Southern China	Supplier	2,267	3,447	4,532
		Central China	Supplier	7,996	9,987	12,901
		Northwestern China	Supplier	15,040	18,655	23,385
		Southwestern China	Supplier	2,025	2,862	4,215

Index of Indicators

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DTT(25)BAR00004

INDEPENDENT LIMITED ASSURANCE REPORT

To the Board of Directors of China Coal Energy Company Limited:

We have been engaged to perform a limited assurance engagement on selected 2024 Key Performance Indicators (the "Selected Indicators") in the 2024 Environmental, Social and Governance (ESG) Report (the "ESG Report") prepared by China Coal Energy Company Limited (the "Company").

Subject Matters for Limited Assurance

The subject matters of this assurance engagement include the selected 2024 KPIs in the following 2024 ESG Report Appendix-Key Performance Table:

- Total greenhouse gas emissions
- Greenhouse gas Emission intensity
- Overall energy consumption
- Total electricity consumption
- Freshwater consumption
- Emission volume of sulphur dioxide
- Emission volume of NO_x
- Coal gangue production
- Amount of hazardous solid waste produced
- Total number of male employees
- Total number of Female employees
- Trade union participation rate
- Employee turnover rate
- Work-related casualties
- Expenditure on rural revitalization, donations and social welfare

Our limited assurance engagement is limited to the 2024 KPIs selected in the 2024 ESG Report above, and does not extend to information disclosed in the 2024 ESG Report that is not

included in the "Subject Matters for Limited Assurance", as well as the 2023 and prior years' KPIs and other information.

Applicable Criteria

The applicable criteria used by the Company in the preparation of the Selected Indicators are set out in the Appendix attached to this report.

Responsibility of Management and Those Charged with Governance

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

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

Inherent Limitations of Applicable Criteria

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

Our Independence and Quality Management

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

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

Our Responsibilities

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

Assurance Approach

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



We carried out the following assurance procedures:

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

Limited Assurance Conclusions

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

Use of Independent Limited Assurance Report

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

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

Deloitte Touche Tohmatsu Certified Public Accountants LLP

Mar 21, 2025



Appendix: Applicable Criteria of the selected 2024 Key Performance Indicators

1. Total greenhouse gas emissions: Total Scope 1 and Scope 2 GHG emissions generated from the production and operation of the three major industrial segments of coal, electric power and coal chemical industry of China Coal Energy Company Limited and its subsidiaries from January 1, 2024 to December 31, 2024. Reasonable conversion coefficients/emission factors have been determined with reference to the relevant provisions in the "Technical Guidelines for the Verification of Greenhouse Gas Emissions from Enterprises-Power Generation Facilities", "Accounting Methodology and Reporting for Greenhouse Gas Emissions from China's Chemical Manufacturing Enterprises (Trial)" and "Accounting Methodology and Reporting Guidelines for Greenhouse Gas Emissions from China's Coal Manufacturing Enterprises (Trial)".

2. Greenhouse gas emission intensity: The statistical scope covers the data of the three major industrial segments of coal, electric power and coal chemical industry of China Coal Energy Company Limited and its subsidiaries from January 1, 2024 to December 31, 2024, and is calculated by dividing the total amount of greenhouse gas emissions by the comparable output value of China Coal Energy in 2024, and the comparable output value is discounted by the 2020 comparable price. Reasonable conversion coefficients/emission factors have been determined with reference to the relevant provisions in the "Technical Guidelines for the Verification of Greenhouse Gas Emissions from Enterprises-Power Generation Facilities", "Guidelines on Accounting Methods and Reporting of Greenhouse Gas Emissions from Chemical Manufacturing Enterprises in China (Trial)" and "Guidelines on Accounting Methods and Reporting of Greenhouse Gas Emissions from Coal Manufacturing Enterprises in China (Trial)".

3. Overall energy consumption: the energy (coal, diesel, gasoline, natural gas, purchased electricity, etc.) consumed by China Coal Energy Company Limited and its subsidiaries from January 1, 2024 to December 31, 2024 for production and operation is converted into the comprehensive energy consumption in tons of standard coal. The coefficient conversion mainly refers to the relevant provisions in the "General Rules for Comprehensive Energy Consumption Calculation" (GB/T 2589-2020) to determine a reasonable conversion coefficient/factor.

4. Total electricity consumption: the purchased power consumed by China Coal Energy Company Limited and its subsidiaries from January 1, 2024 to December 31, 2024 for production and operation, in 100 million kWh.

5. Freshwater consumption: the total amount of freshwater consumed by China Coal Energy Company Limited and its subsidiaries for production and operation from January 1, 2024 to December 31, 2024, in 10 thousand tonnes.

6. Emission volume of sulphur dioxide: the total amount of sulfur dioxide emitted from the production and operation of China Coal Energy Company Limited and its subsidiaries from January 1, 2024 to December 31, 2024, in tons.



7. Emission volume of NOx: the total amount of nitrogen oxides emitted from the production and operation of China Coal Energy Company Limited and its subsidiaries from January 1, 2024 to December 31, 2024, in tons.

8. Coal gangue production: the total amount of coal gangue production by the production and operation of China Coal Energy Company Limited and its subsidiaries from January 1, 2024 to December 31, 2024, in 10 thousand tonnes.

9. Amount of hazardous solid waste produced: the total amount of hazardous waste generated from the production and operation of China Coal Energy Company Limited and its subsidiaries from January 1, 2024 to December 31, 2024, and the classification of hazardous waste is based on the "National List of Hazardous Wastes (2021 Edition)", in 10 thousand tonnes.

10. Total number of male employees: the number of male regular employees of China Coal Energy Company Limited and its subsidiaries as of December 31, 2024, excluding labor dispatch employees.

11. Total number of female employees: the number of female regular employees of China Coal Energy Company Limited and its subsidiaries as of December 31, 2024, excluding labor dispatch employees.

12. Employee turnover rate: the number of regular employees of China Coal Energy Company Limited and its subsidiaries who voluntarily left their jobs from January 1, 2024 to December 31, 2024, and calculated by dividing the number of regular employees of the aforementioned caliber as of December 31, 2024.

13. Work-related casualties: the number of regular employees of China Coal Energy Company Limited and its subsidiaries who died as a result of work-related injuries from January 1, 2024 to December 31, 2024. Determination of death due to work-related injuries is based on the relevant provisions of the "Workers' Compensation Insurance Ordinance".

14. Expenditure on rural revitalization, donations and social welfare: the total amount of expenditure of China Coal Energy Company Limited and its subsidiaries from January 1, 2024 to December 31, 2024, which was summed up by direct financial donations, donations of purchased materials, and donations of materials converted into amounts. The disclosure caliber is consistent with the disclosure caliber of the total input of external donations and public welfare projects, and the total input of assistance and rural revitalization projects in the social responsibility work section of the annual report.

15. Trade union participation rate: The number of regular employees of China Coal Energy Company Limited and its subsidiaries who joined the labor union as of December 31, 2024, calculated by dividing the number of regular employees with the above caliber.

Assurance Report Glossary of Terms

Short Form	Long Form	
Board of the Company/Board	the board of directors of China Coal Energy Company Limited	
Director(s)	the director(s) of the Company, including all the executive directors, non-executive directors and independent non-executive directors	
Supervisor(s)	the supervisor(s) of the Company	
Shareholder(s)	the shareholder(s) of the Company, including holder(s) of A Shares and holder(s) of H Shares	
SASAC	State-owned Assets Supervision and Administration Commission of the State Council	
SSE	the Shanghai Stock Exchange	
HKEX	Hong Kong Exchanges and Clearing Limited	
HKSE	The Stock Exchange of Hong Kong Limited	
RMB	RMB yuan, unless otherwise specified	
Two combinations	combination of coal and coal power, combination of coal power and renewable energy	
Installed Capacity	Refers to the total rated active power of all installed generating units in a power plant or power system. It is also known as installed power capacity or station capacity	
Anti-"Three Violations" Campaign	Refers to a targeted rectification campaign in enterprise safety management aimed at addressing three types of violations: command violations, operational violations, and breaches of labor discipline	
CCUS Technology	Refers to Carbon Capture, Utilization, and Storage (CCUS) technology, which involve separation of carbon dioxide (CO ₂) from industrial processes, energy utilization, o atmosphere, followed by its utilization or permanent storage in geological formations	
Two Responsibilities of Comprehensive and Rigorous Party Governance	Refers to the primary responsibility of Party committees (or leading Party groups) and the supervisory responsibility of discipline inspection commissions	
Anjialing Coal Mine	Refers to Anjialing Open Pit Mine of China Coal Pingshuo Group Company Limited, locatec in Shuozhou, Shanxi Province	
East Open Pit Mine	Refers to East Open Pit Mine of China Coal Pingshuo Group Company Limited, located ir Shuozhou, Shanxi Province	
Wangjialing Coal Mine	Refers to Wangjialing Coal Mine of China Coal Huajin Energy Group Limited, located i Xiangning County, Shanxi Province	
Dahaize Coal Mine	Refers to Dahaize Coal Mine of China Coal Shaanxi Energy Chemical Group Co., Ltd located in Yulin, Shaanxi Province	
Nalinhe No. 2 Coal Mine	Refers to Nalinhe No. 2 Coal Mine of China Coal Northwest Energy Chemical Company Limited, located in Uxin Banner, Ordos City, Inner Mongolia Autonomous Region	
Yilan No. 3 Mine	Refers to Yilan No. 3 Mine of China Coal Heilongjiang Coal Chemical (Group) Co., Ltd. located in Yilan County, Heilongjiang Province	

Reader Feedback Form

Dear Reader,

Thank you for reading the 2024 Environmental, Social and Governance (ESG) Report of China Coal Energy Company Limited. We greatly value your feedback on China Coal Energy's ESG management, practices, and information disclosure. Your insights and suggestions serve as a critical foundation for our continuous improvement in ESG management and implementation. We look forward to your response!

Multiple-Choice Questions (Please check the appropriate box \checkmark)

1. Which category of stakeholder do you belong to?

Government and Regulatory Authorities Shareholders and Investors Customers

□ Suppliers and Partners Employees □ Communities and the Public □ Others: _____

2. How well does this report address the information you are concerned about?

□ Very well □ Good □ Average □ Poor □ Very Poor

3. How well do you think this report responds to China Coal Energy's economic, social, and environmental impact?

□ Very well □ Good □ Average □ Poor □ Very Poor

4. How would you rate the readability of this report, including its logical structure, content design, language, and layout?

 \Box Very well \Box Good \Box Average \Box Poor \Box Very Poor

Open-Ended Questions

1. Which aspects of this report would you like to see disclosed regularly?

2. Do you have any additional comments or suggestions regarding our ESG management, practices, and information disclosure?

We sincerely appreciate your time in completing this feedback form. Please submit your response using the following methods:

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Emai: csr@chinacoal.com

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