



# 2021 ESG

中国中煤能源股份有限公司  
环境、社会及管治报告

# Description of the Preparation of the Report

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## Report Summary

The China Coal Energy ESG Report 2021 is the environmental, social and governance report published by China Coal Energy Company Limited (the “ESG Report”), which mainly gives information in respect of, among other things, environmental protection, social contributions and corporate governance of the Company in 2021, and aims to enhance communication and contact with various stakeholders.

The Company has published 13 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 issues its first environmental, social and governance report from 2021.

## Range of period

From 1 January 2021 to 31 December 2021. To increase the comparability of the report, certain contents may date back to previous years where applicable.

## Scope of reporting

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

## Basis of preparation

“Guidelines on Industry Information Disclosure of Listed Companies” issued by the Shanghai Stock Exchange; “Environmental, Social and Governance Reporting Guide” (ESG Reporting Guide) issued by the Stock Exchange of Hong Kong Limited. The Company has complied with the disclosure requirements of the “comply or explain” provision set out in the ESG Reporting Guide;

The “GRI Standards” issued by the Global Reporting Initiative (“GRI”);

The “Guidelines on Preparation of Corporate Social Responsibility Report for Enterprises in China – Coal Mining and Processing Industry” (CASS-CSR3.0) released by the Chinese Academy of Social Sciences.

## 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 information set out in this report does not contain any false representations, misleading statements or material omissions.

## Description of references

For easy reference and reading, China Coal Energy Company Limited is also referred to as “China Coal Energy”, “the Company” and “we” in this report.

## Frequency of publication

The report is published annually.

## Access to the report

This report is prepared in Chinese and English. The electronic version of this report could be downloaded on the website of China Coal Energy Company Limited.

Website: <https://www.chinacoalenergy.com>

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# Chairman's Statement



## Dear Friends,

On behalf of the Board of Directors, I would like to extend my sincere gratitude for your continuous attention and support to China Coal Energy.

2021 was an extraordinary year in the history of China Coal Energy. Throughout the year, China Coal Energy was guided by the Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, drew strength from the wisdom of the Party history for a century, seized the growth momentum of the energy industry, established the development direction of "efficiency enhancement and incremental transformation", strived to build a world-class energy enterprise pursuing multi-energy complementation, green and low-carbon business, innovation demonstration and modern governance, promoted various operational and development tasks in a coordinated fashion so as to achieve a good start of the "14th Five-Year Plan". Meanwhile, the Company adhered to the values of sustainable development and its corporate mission of "supply quality energy and lead industrial development for a prosperous life", and actively assumed the social responsibility of securing energy supply, thereby making its contributions to securing livelihood of people as well as economic and social stability. The Company contributed new efforts and achieved new results in corporate governance, value creation, safe production, environmental protection, technological innovation, staff caring and community development. It also continuously empowered its stakeholders and promoted harmonized development among the economy, community and environment.

## Provide Quality Energy

The Company enhanced its organization for production, optimised its production system, and continuously increased its unit production and input level. By increasing its efforts on unleashing the production capacity of open pit coal mines and newly built massive coal mines in Inner Mongolia and Shaanxi regions which have ample resources, rich reserves and sound systems, the Group strived to increase the production volume of quality coal and placed full efforts on increasing production for securing supply and stabilizing price. Hence, the Group has played a critical role and acted as a supporting pillar in energy supply. During the reporting period, the Company produced 112.74 million tonnes of commercial coal, representing a year-on-year increase of 2.73 million tonnes or 2.5%; the production volume of major coal chemical products was 4.772 million tonnes, representing a year-on-year increase of 18.1%.

The Company conscientiously executed the requirements of securing energy supply by the government, strictly implemented the long-term and medium-term coal contract mechanism, proactively executed measures on increasing production and sales volume and stabilizing supply and price, hence making great contribution to securing energy supply of the country and maintaining stable development of economy and society. By leveraging advantages of centralized sales of self-produced coal and nationwide marketing network, the Company fully consolidated its channel for external procurement of coal resources and business scale. With further increase in China Coal's brand advantage, market discourse power and influence, the sales volume of commercial coal reached a historical high record again. The cumulative sales volume of commercial coal was 291.17 million tonnes during the reporting period, representing a year-on-year increase of 9.7%.



The Company promoted green and low-carbon energy transformation, proactively developed clean energy industry pursuing multi-energy complementation, and developed “photovoltaic+” industry. On 28 December 2021, the 263MW photovoltaic project of the first phase of New Energy Demonstration Base in Shanghai Energy successfully connected to the grid for 30MW of electricity in the first phase.

### Lead Industry Development

The Company adhered to the idea of putting life and safety first, placed great efforts on implementing safety development strategy, thoroughly commenced the three-year action of special rectification of work safety, and prevented and resolved major safety risks. Safety cost of RMB1.87 billion was invested for the year. 88 system modification works were completed to enhance safety, including “one ventilation and three preventions”, machinery transportation and electricity transmission and power supply.

The Company practiced the concept of green development, actively promoted green development and the clean and efficient utilization of coal, continually strengthened the control of potential environmental risks, and resolutely made every effort to prevent and control pollution. Seven of its coal mines were included in the list of National Green Mines by the Ministry of Natural Resources of the People's Republic of China, and the case of ecological reclamation of Pingshuo Mining Area was awarded as an industry benchmark. Many of its coal chemical enterprises have met the standards of “zero discharge” of waste water.

The Company was determined to develop through innovation and prepared the technology development plan for the “14th Five-Year Plan” period, while accelerated the construction of innovative platforms and further optimised technology innovation system. The Company increased its investment in research and development, and promoted informationisation, automation and intelligence construction. 35 intelligent mining faces have been built in five national first batch of intelligent demonstration coal mines, thereby accomplishing reduction of manual operation and efficiency enhancement via intelligent mining. In 2021, raw coal productivity was 37.3 tonnes per worker-shift, maintaining a leading level in the coal industry.

### Contribute to Prosperous Life

Sticking to being people-oriented, the Company has built harmonious labor relations and strengthened occupational health protection to fully safeguard the legitimate rights and interests of its employees. The Company continued to normalise pandemic prevention measures, and achieved “zero infection” of all employees. The Company continued to improve its salary distribution system, further reformed its distribution system and optimized its income distribution structure. In addition to insisting on corporate development, the Company also shares the results of development with its employees to give them more concrete sense of gain, happiness and security.

The Company insists on harmonious win-win outcomes and supports the development of the local economies and society. In 2021, the total amount of the Company's social contribution

through the payment of taxes, labor costs, net profit and interest expenses was RMB52,149 million, and the social contribution value per share was RMB3.93, including RMB17,988 million in taxes and fees paid. The Company has established a comprehensive and prolonged mechanism for expanding the results of poverty alleviation. By maintaining the general stability of major alleviation policies, constant efforts, passion and standards, the Company consolidated its efforts on expanding the results of poverty alleviation and realized the effective connection with high-quality progression of rural revitalization. In 2021, the Company contributed to poverty alleviation by providing support funds of RMB25.99 million in total (including cash equivalents for material aid), while supported its staff to conduct various kinds of voluntary service campaigns to deliver positive message to the society.

2022 is an important year for the implementation of the “Fourteenth Five-Year Plan” and is the year for unswervingly promoting high-quality development. The Company will be guided by the Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, adhere to the general principle of “prioritising stability, making progress amid stability”, and uphold the development direction of “efficiency enhancement and incremental transformation, while coordinate and promote the tasks to ensure safety, stabilize growth, adjust structure, focus on reforms, facilitate innovation, improve benefits, prevent risks, and spare no effort to promote the high-quality development of the Company. In the meantime, the Company will inject the “gene” of social responsibility management into the whole process of corporate management, stimulate and consolidate the potential of our stakeholders to deliver social value via concerted efforts, effectively manage the impact of its operation on society and the environment, and create the highest possible combined value of economic, social and environmental through corporate development.

The Company believes that it is our original aspiration of growing together with customers, our firm belief of creating long-term value, and our persistence of performing social responsibilities and promoting sustainable development that will lead us to progress with stability and sustainability. Led by the target on sustainable development, the Company integrates ESG philosophy into every aspect of corporate development, and promotes the mutual progression, harmony and win-win situation among economical value, social value and environmental value.

Wang Shudong  
Chairman  
24 March 2022

# ESG Governance Statement from the Board of Directors

The Board of Directors of China Coal Energy undertakes that the Company will strictly comply with the disclosure requirements for the environmental, social and governance report guidelines of the stock exchange in the place of listing.

The Board of Directors of the Company has participated in the review and decision-making regarding major issues of ESG, including the formulation of relevant strategies and policies and the deliberation of its annual ESG Report and social responsibility practices. The Safety, Health and Environmental Protection Committee of the Board of Directors is responsible for monitoring the commitment and performance of key ESG issues of China Coal Energy. Through convening regular meetings and other forms, we discuss and clarify the regulatory responsibilities of the Board of Directors, and improve its regulatory process, so as to integrate ESG

into the Company's business operation and long-term development objectives, and ensure that ESG is truly integrated into the Company's corporate culture.

On the basis of corporate strategies, current corporate management status and concerns of stakeholders, the Board of Directors benchmarks the Company against enterprises in the industry in terms of sustainable development strategies and management, essential topics, quantitative indicators and the best practice, thereby achieves continuous improvement.

This report discloses the progress and effectiveness of China Coal Energy's ESG works in 2021 in details, and has been considered and approved at the 2022 first meeting of the fourth session of the Board of Directors of the Company on 24 March 2022.

## Company Overview

China Coal Energy Company Limited was established as a joint stock company by the China National Coal Group Corporation on 22 August 2006, with its headquarter 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 is a large scale energy company with four principal businesses including coal production and trading, coal chemical engineering, power generation and coal mining equipment manufacturing.

### 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 Hujierte, Ordos of Inner Mongolia Autonomous Region, primarily developed by the Company, are the most important thermal coal production bases in the PRC. Xiangning mining area in Shanxi, where Wangjialing Coal Mine is located, is the production base of low-sulfur, ultra-low-phosphorus high-quality 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 develop competitive edges and achieve sustainable development.

### Coal chemical industry

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

### Power generation industry

Aiming to adjust its industrial structure and absorb self-produced coal, the Company proactively develops environmental-friendly pithead power plants and power plants comprehensively utilizing inferior coal, and participates in the construction of downstream power plants. By promoting the joint operation and integration of coal and electricity, the Company actively formulates its unique advantages in terms of low costs, high efficiency and comprehensive utilization of resources. The business is mainly located in provinces such as Shanxi and Jiangsu and Xinjiang Uygur Autonomous Region.

### Coal mining equipment manufacturing industry

The Company's subsidiary China National Coal Mining Equipment Co., Ltd. provides the most comprehensive range of mining equipment products and services in China. It takes the lead nationwide with the capability to develop, manufacture and supply comprehensive coal exploitation equipment, has built a world-leading coal mining machine equipment test platform, and serves as a model for enhancing the quality and localization of coal mining equipment and improving technology in the mining industry.



Industry model of China Coal Energy



# 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 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 Energy's Vision:

**To Build Itself into a Clean Energy Enterprise with Strong International Competitiveness**

## China Coal Energy's Mission:

**To Supply Quality Energy and Lead Industrial Development for a Prosperous Life**

**To supply quality energy:** to build itself into a clean energy supplier, adhere to the integration of coal, electricity and chemical industries, promote clean and efficient utilization of coal so as to provide energy assurance for China's economic construction.

**To lead industrial development:** to strive to become the leader in the safe, green energy production industry, the role model of the utilization of clean energy, the propeller driving technological advancement in the industry, and a practitioner in providing superior quality service.

**To contribute to a prosperous life:** to put people first and provide employees with more concrete sense of gain, happiness and security; to fulfil social responsibilities more properly to contribute to the building of a beautiful China.

## China Coal Energy's Spirit:

**Dedication, Integrity, Innovation and Forerunner**

**Dedication** – being dedicated to duties, being courageous to undertake responsibilities, being passionate for work and being loyal to the Company.

**Integrity** – seeking truth and being pragmatic with a down-to-earth working style, being industrious and thrifty, being honest, doing solid work and seeking actual results.

**Innovation** – being open minded, being courageous to explore, adhering to scientific thinking, enhancing innovative capacity and building an innovative enterprise.

**Forerunner** – being pioneering and ambitious, being courageous to scale new heights, benchmarking against excellent enterprises, striving to surpass them, establishing the China Coal Energy brand and striving to become a role model in the industry.

## China Coal Energy's Core Values:

**Scientific Development, Safety and Efficiency, Harmony, and Win-win Situation**

**Scientific development:** being people-oriented and making overall planning and consideration to achieve comprehensive, balanced and sustainable development of the Company.

**Safety and efficiency:** being committed to safe development and to improving efficiency and benefits.

**Harmony and win-win Situation:** being honest and trustworthy, and striving to achieve mutual benefit and Win-Win Situation as well as harmonious coexistence and joint development of the Company and its employees, of the Company and other enterprises and of the Company and society.



# Strategies of the Company



The Company deeply grasps the global energy revolution trend and the internal requirements of energy enterprises' quality development. It mainly focuses on promotion of quality development and the major direction of deepening supply-side structural reforms. The Company comprehensively promotes the "carbon emissions peak" and "carbon neutrality", thoroughly implements the new energy safety strategy of "four revolutions and one cooperation", fully implements the "2035 world-class" strategy and the development directions of "efficiency enhancement and incremental transformation". The Company built and improved the high-quality development of the four-industry synergy industry structure with the coal industry as the cornerstone, the coal-based clean and efficient conversion and utilization industry and the energy comprehensive service industry as two wings, and new energy and other strategic emerging industries as important growth points, and strived to build a world-class clean energy enterprise pursuing "multi-energy complementation, green and low-carbon business, innovation demonstration and modern governance".

**Firstly, develop the coal production and trade industry steadily.** The Company implements the responsibility for ensuring the national safety and stability of coal supply, continuously deepens the supply-side structural reforms of coal, optimizes the layout of production and development, promotes green and intelligent development, improves product quality and service capabilities, increases marketing scale and market share, continuously builds a safe, efficient, green, intelligent, and model strategic core industry to promote the quality and sustainable development of China's coal industry.

**Secondly, optimize the development of the coal clean and low-carbon conversion industry.** Based on the coal, power and chemical integrated industrial chain, the Company will facilitate the development of coal power in terms of size, intelligence and cleanliness as well as the development of coal chemical in terms of high-end positioning, differentiation and refinement. The Company will tap the potential and enhance efficiency of its existing projects, deploy new projects in a stable and orderly manner, advance its

industry chains to modern level with various measures, foster the transformation of coal industry from single fuel to coal and raw materials, and facilitate clean and efficient conversion and utilization of coal.

**Thirdly, vigorously develop the clean energy industry complemented by multiple types of energy.** Under the development direction of adapting to local conditions, highlighting model cases, complement by multiple types of energy and various measures, the Company will organize areas with coal, power and chemical industries and other appropriate areas meeting conditions like rich resources, sound construction conditions and market appetite. The Company will comprehensively strengthen resources allocation, proactively establish model projects, accelerate the deployment and establishment of wind power and photovoltaics projects, promote technology reserve and industry implementation such as hydrogen power and power reserve, foster the complement, integration and synergy between new energy and existing major businesses, as well as facilitate energy supply-side and low-carbon transformation.

**Fourthly, transform and upgrade the integrated energy service industry.** By proactively leveraging the important opportunity of establishing the leading modern industry chain by the government, the Company will anchor on equipment manufacturing industry as the core of its chain, utilise integrated energy service as the key model and use other coal-based service business as supplements. The Company will adhere to actions or omissions, fully foster in-depth corporate reform, enhancement of expertise, business resources integration, commercial model innovation as well as internal and external market exploration. Focus will be placed on fostering high-quality development of coal-based industries, energy intelligent equipment and innovation, development of ground and underground resources for coal mines, and provision of comprehensive energy services to formulate model projects. The Company will accelerate its establishment as an energy system solution provider and strive to become the leading enterprise in coal modern industry chain.



# Corporate Governance

## Regulated Operation

**Governance structure.** The Company has established a corporate governance structure comprising the Shareholders' general meeting, the Board, the Supervisory Committee and the management team in accordance with the provisions of relevant laws and regulations including the Company Law and the Securities Law, so as to establish a check-and-balance and coordinating mechanism with clear delineation of rights and responsibilities and standardized operation among the executive, decision-making and supervisory bodies and the management team. The Company has formulated a series of rules and regulations such as Articles of Associations, Rules of Procedures of Shareholders' General Meetings, Rules of Procedures of the Board of Directors, Rules of Procedures of the Supervisory Committee and Rules of Procedures of the Management Team. During the reporting period, the corporate governance of the Company basically complies with the requirements of relevant regulations.

**Standardized operation.** The Shareholders' general meeting is the highest authority of the Company, and Shareholders exercise their rights via the Shareholders' general meeting pursuant to the law. The Company convenes the Shareholders' general meeting in strict compliance with the Articles of Association, and conducts works on notification, consideration, voting and information disclosure in accordance with the rules of procedures to fully secure the equal status of all Shareholders to effectively exercise the rights of information, participation, enquiry and voting. The Board is the permanent decision-making authority and is accountable to the Shareholders' general meeting. When the Board decides on major issues, such as reforming the direction of the Company's development, its main objectives and tasks, and the arrangement of key duties, it shall first hear the opinions of the Party organization, so as to fully employed core leadership and political roles of the

Party organization. Under the Board, five special committees are established, namely the Audit and Risk Management Committee, Remuneration Committee, Strategic Planning Committee, Safety, Health and Environmental Protection Committee and Nomination Committee. The special committees are enabled to employ their full functions, and major decisions will be discussed first by the special committees before submitted to the Board for review. Independent non-executive Directors of the Board account for one third of the members of the Board, which meets the relevant regulatory requirements. A work mechanism has been established for independent non-executive directors to conduct fieldwork research. The Board makes an overall arrangement of the annual plan for Board meetings, adopts new forms of meetings and ensures that independent non-executive directors can attend meetings on time and fully express their views. The Supervisory Committee is accountable to the Shareholders' general meeting and monitors daily operation activities and the performance of duties by the directors and the senior management in accordance with the Articles of Association and the relevant laws and regulations. In 2021, China Coal Energy organized and convened one General Meeting, six Board meetings and five Supervisory Committee meetings. The Board of China Coal Energy steps up scientific decision making and supervision of the Company's major matters such as development strategies, investment plans, financial management and production and operations, as well as guides and promotes corporate reform and development, thus effectively enhancing the Company's core competitiveness and sustainability.

**Compliant operation.** The Company insists on the concept and method of the rule of law to facilitate in-depth reform, while enhances corporate operation in compliance with the laws. The Company accelerates the establishment of compliant system,



Board meeting of China Coal Energy

# Corporate Governance

optimizes the management mechanism for rules and systems, clearly determines the management responsibility for legal exposure, regulates the plans, proposes, reviews, and publication of work procedures, and optimizes the compliance with systems. Pursuant to the compliant work principles of “prevention-based, key issues highlighted, synergic action and business integration”, the Company promotes the extension of compliant management to its subsidiaries and consolidates the foundation for compliant management. Emphasis is placed on the compliant management for key fields and specific projects. For seven fields, namely corporate governance, safe production, energy conservation and environmental protection, intellectual property rights, tendering and procurement, coal trading and overseas business, the Company clearly determines the key issues for compliance, implements various management and control measures, and ensures the compliant operation of its enterprises. On the basis of perfecting basic compliant acts, the Company has prepared the “Guidelines on the Prohibition and Obligation Regulations of External General Laws”, and rationalizes 433 bottom lines and red lines in the course of its production and operation with regards to 11 categories including business affairs, market transactions and project construction. The Company also lists out specific key points for compliance, enhances the identification and responses to daily compliant risks, continuously nurtures compliance culture, and deepens the ideas of compliant operation and law-abiding integrity among all management.

## Internal Control

**Internal control system.** With the goal of “internal control enhancement, risk prevention and fostering compliance” the Company further consolidates and optimizes relevant systems on internal control, risk and compliant operation, while establishes a comprehensive work mechanism on, among other things, internal control system formulation, assessment and improvement. Through regular clarification of systems, the Company assures the timely conversion of external regulatory requirements into internal corporate requirements and effectively embeds internal requirements into the whole process of production, operation and management and covers all staff. Through continuously exploring the management control model of each business sector and regional company, and by implementing management differentiation across enterprises in different business sectors, the Company has constructed a system and framework with different tiers and categories, and successfully improved the effectiveness of internal controls across various business sectors.

**Budget management.** The Company conducts an in-depth research on macroeconomic and industrial conditions, and has established a comprehensive budget management model of “budget preparation – target management – process control – performance appraisal”. It has employed the guiding role of budgeting through strengthening budget proposal implementation, budget refinement, vigorous control, and strict assessment. The Company strengthened performance appraisal for all employees, further extended Key Performance Indicator (KPI) management, integrated the completion of all key duties with relevant operating performance appraisals, highlighted personalized appraisal indexes and increased the relevance of key duties in the performance appraisal, so as to guarantee the realization of current operational performance objectives, the fulfilment of key duties as well as the increase of development potential.

**Risk management.** Closely focusing on “target, risk and control”, the Company conscientiously rationalises the weakness and potential risks for its enterprises in the course of operation and management. By integrating the changes of risks such as industries, domestic and foreign market environment and bulk commodities price, the Company scientifically identifies material risk categories, objectively reflects risk characteristics, formulates targeted risk responsive measures, and prepares 2021 material risk assessment report. The Company decomposes material risk management and control measures, consolidates risk management and control responsibilities, tracks and monitors material risk management and control on a quarterly basis, eliminates possible material risk hazards, and effectively prevents the occurrence of material operational risk incidents.

**Supply chain management.** The Company diligently performs its duty for win-win partnership and attaches importance to the management of responsibility of the supply chain in order to improve suppliers’ awareness and capabilities of responsibility and pursue a supplier management philosophy of open cooperation, mutual benefits and win-win situation. The Company continuously improves its supplier management mechanism, reduces the environmental and social risks of its supply chain as well as establishes supplier resources which could be share within the Company. The Company promotes the establishment of full-cycle management mechanism, including centralised management of all suppliers, supplier access with accountability by tiers, performance-based motivation and dismissal. Adhering to procurement with responsibility, the Company will fully integrate the concepts and requirements of performing social responsibilities into the whole procurement process of its enterprises. For rating factors of procurement appraisal, performance by key suppliers in areas



China Coal Energy participated in the Fourth China International Import Expo

such as human rights, occupational health and safety, consumer rights and business ethics are considered and acknowledged. The Company continuously improves its institutional system of tender and procurement, calls for fair competition, implements the transparent “Sunshine Procurement” policy, resists corruption and commercial bribery, puts priority in the procurement of reliable products and services, and facilitates the improvement of supplier awareness and capabilities of fulfilling responsibility. Oriented on green development strategy, supported by green technology and guided by green culture, the Company proactively builds a green supply chain to implement green procurement. In 2021, China Coal Energy actively participated in the Fourth China International Import Expo and signed contracts with many international suppliers. The Company implements international cooperation with a more open mind and practical actions to accelerates the new development pattern of dual-cycle between domestic and international markets, thereby contributing to the open world economy with the wisdom and power of Chinese enterprises.

As of the end of 2021, China Coal Energy had 73,823 suppliers, of which 73,764 were domestic suppliers, 28 were from North America, 6 were from Asia (excluding China) and 25 were from Europe.

Geographical distribution of China Coal Energy’s domestic suppliers by place of registration

Region	Number of Suppliers
Northeastern China	2,719
Northern China	28,690
Eastern China	23,394
Southern China	1,459
Central China	5,871
Northwestern China	10,289
Southwestern China	1,342
<b>Total</b>	<b>73,764</b>

**Anti-corruption.** China Coal Energy has always integrated anti-corruption work into the general course of its corporate reform and development in every aspect of its production and operation, to provide a strong and effective safeguard for the healthy and sustainable development of the Company. The Company strictly abides by relevant laws and regulations, such as the Anti-Monopoly Law of the People’s Republic of China and the Anti-Unfair Competition Law of the People’s Republic of China and has zero tolerance for unlawful acts such as bribery and fraud. The Company strictly implements management systems on, among other things, tendering and procurement, and enhances its management and control on procurement plans, procurement sources and others. The Company also signs the “Mutual Assurance Agreement on Integrity of Supply and Demand Sides” to guide and restrain both parties to boycott corrupt commercial behaviors. In 2021, the number of lawsuit cases against corruption of China Coal Energy and its subsidiaries or employees was zero. The Company has a smooth visiting and reporting channel and carries out visits, reporting and case investigation works in strict compliance with the “Rules on Reporting and Accusation Works Handled by Disciplinary and Supervision Authorities” and the “Rules on the Inspection of Discipline Enforcement by the Disciplinary Authority of the Chinese Communist Party”. The Company enhances the centralised management and categorized handling of issue clues, seriously investigates and punishes cases in violation of rules and disciplines

to warn, foster rectification and promote governance via those cases. In-depth development of the “three non-corruption” concept will be uniformly promoted, so that one would not be dare to, able to nor willing to conduct corruption acts. The Company adheres to the central inspection work direction, further implements political inspections, insists on improvement in the course of inspection, while timely and effectively resolves problems, thereby further manifests effects of inspection and supervision. The Company enhances education on the party spirit and integrity. In 2021, 34,000 people of the Company received warning education with coverage of every tier.

**Supervision through auditing.** The audit departments of the Company at all levels continually enhance their supervision of internal auditing. Oriented by risk and problems, they focus on key management processes such as material purchases, product sales, project tender and bidding and the payment of large sums of money, pay close attention to the implementation of the rectification of audit issues, and strengthens accountability. The management personnel are consistently urged to exercise their rights in a standardized manner. Investment in construction projects is conducted in accordance with laws and regulations and the internal control mechanisms of the Company are regularly improved. The Company promotes the enhancement of its operation and management levels, with the goal of preventing operational risks.

**Transparent Operation.** The Company insists on transparent operation. Focusing on key issues of concerns among staff and society, such as recruitment, procurement, bid invitation and the appointment of cadres, the Company insists on transparency of plans, processes and results, accepts social supervision and prohibits operations behind closed doors. The Company makes regular disclosures on significant matters, such as cadres’ work-related expenses and financial affairs through the employee representatives meetings, bulletin boards and suggestion boxes, and encourages staff to offer advice and suggestions and participate in corporate governance. The Company timely discloses the state of its operations and development, enhances ESG information disclosure and actively responds to the concerns from society through media and means such as the Company’s website, WeChat Public, the ESG Report/CSR report and the annual report. The Company has established a sound communication mechanism with its stakeholders, and answers and listens to questions and opinions from investors via means such as telephone hotline, email and facsimile, thereby enhancing operation transparency.



Northwest Energy Company commences integrity education campaign



# Management of ESG

## Work System of ESG

China Coal Energy continues to facilitate ESG management with a focus on incorporating the concept of ESG into its current management system, production chain, communication with stakeholders, and its sustainable development. The Company seeks to actively explore suitable ESG management models and continuously improve its ability to fulfil its responsibility while pursuing the objective of sustainable development through the “optimization of integrated values of economic, social and environmental”.

The Company has established an ESG management system covering three levels including “decision making, organization and implementation”. The Company has formulated an implementation strategy and a promotion plan in accordance with its key ESG management aspects, and encourages different departments and business institutions to incorporate relevant work into their daily operations.

### Decision-making level

The Board of Directors of the Company have participated in the review and decision-making regarding major issues of ESG, including the formulation of relevant strategies and policies and the deliberation of its annual ESG Report and ESG practices.

### Organization level

The Company has established an ESG management team, which is responsible for coordinating daily management work related to ESG, including formulating annual ESG reports, organizing and conducting training, collecting ESG performance indicators,

collecting and sharing exemplary cases of ESG practices, and planning and implementing ESG practices.

### Implementation level

The professional departments of the Company and different business institutions are responsible for the centralized management of ESG issues and the regular reporting of relevant management measures, performance indicators and exemplary cases. The Company has established a preliminary system of ESG indicators covering six areas: economy, safety, environment, innovation, employees and community, which provide rich historical data on ESG management, ensure the comparability of indicators in ESG reports, and lay a foundation for appraising the incorporation of ESG into the management and operations of the Company.

## Stakeholder Communication

China Coal Energy has improved the mechanisms of compilation, publication and transmission of the ESG report, and has enhanced the procedures for the compilation and publication of the report. The Company convened regional forums for major clients, occasionally invited news media to come to China Coal Energy for interviews, sought suggestions from outside experts on ESG and listened to the advice of employee representatives and employees. By incorporating the participation of internal and external stakeholders, the Company has effectively responded to the stakeholders’ concerns about ESG, which has specifically improved the Company’s ESG performance.

Stakeholder	Ways and channels for communication and participation	Essential topics	Feedback
Government	Regular work meetings, Report of information, Specific agenda meetings	Tax contribution, Job creation, Contribution to social development	Operation in compliance with laws, Tax payment in compliance with laws, Promotion of economic development
Investors	Reports and notification, Results release, Daily receptions, Interactive Q&A platforms	Corporate governance, Stable operation, Profit sharing, Information communication, Market value management	Enhancing corporate profitability by high-quality development; Regulating information disclosure and strengthening investor relations; Reinforcing market value management and increase investors’ confidence.
Suppliers	Public tendering procedures, Work meetings	Business ethics, Fair cooperation, Mutual development	Fair procurement, Performance of contracts in compliance with laws, Formulation of <i>Management Measures for Materials Procurement, Name List of Qualified Suppliers and Name List of Key Suppliers</i>
Customers	Service hotline, Post-sales service, Seminars, Regular visits	Product quality, Service quality, Business ethics, Satisfaction of individual needs	Provision of quality and customized products and services, Establishment of convenient sales network
Employees	Meetings of employee representatives, Satisfaction surveys, Seminars, Mailings and visits, Online college	Basic rights, Occupational health, Remuneration and benefits, Working environment, Career development, Democratic management, Concern for livelihood	Staff training, Provision of good working conditions, Provision of good working environment, Provision of long-term career development opportunities
Peer mining companies	Cooperation, Workshops on specific issues	Industry standards, Fair competition, Promotion of industry development	Cooperation, Experience sharing, Promotion of sustainable growth of the industry
Financial institutions	Specific agenda meetings, Information reports, Timely repayment of principal and interest	Business operations, Operational risks, Compliance governance, Credit facilities	Timely repayment of principal and interest
Media	Information transparency	Publication of reports, Multi-channel information disclosure	Regular disclosure of information on ESG and significant events of public concerns
Community and the public	Public service activities, Environmental protection	Charity donations, Volunteer services, Community development	Disaster relief, Poverty alleviation, Environmental protection

## Identification of ESG Topics

### Analysis of essential topics

The extent of impact on stakeholders and focus of stakeholders



The extent of impact on the development of China Coal Energy and focus of China Coal Energy

## Progress of ESG Work

**Integrating ESG into corporate strategy.** When formulating the corporate development strategy, the Company incorporates concepts of ESG through parallel planning and implementation, thus forming the top-level design of ESG management of China Coal Energy.

**Conducting ESG training.** China Coal Energy has established a learning and communication platform for ESG, has internally carried out ESG training activities in a systematic and graded manner via various means such as convening meetings and trainings, and inviting experts to give lessons, and has actively participated in a range of external professional training courses to broaden its horizons and raise awareness, including the ESG training session organized by the SASAC of the State Council, the ESG report seminar and forums held by relevant professional organizations.

**Promoting the practice of ESG.** At the beginning of year, the Company collected ESG work summary for the previous year from each work unit and arranged major ESG tasks for this year. Through carrying out the voting of excellent cases of ESG, the Company promoted social responsibility awareness and practical ability of its affiliates, and encouraged qualified major subsidiaries to regularly publish social responsibility reports. By strengthening research on ESG, and exploring the concept, implications, objectives and pathways for coal enterprises' fulfillment of social responsibility, the Company has promoted the performance of social responsibility in a more effective manner.

**Enhancing communication about ESG.** Since 2008, when its first social responsibility report was issued, China Coal Energy has issued social responsibility reports for 13 consecutive years, and was awarded the title of "CCTV Finance 50 Index • Top 10 Companies of Social Responsibility" twice. In 2021, China Coal Energy and Shanghai Energy were honored as "Excellent Enterprises of Chinese Coal Industry for Issuing Social Responsibility Reports". China Coal Energy was selected into the "Top 50 State-owned Enterprise ESG Ranking", and was assessed as an excellent case of social responsibility on "green and low carbon". To further fulfill the information disclosure requirements for listed companies, China Coal Energy publishes its first environmental, social and governance report in 2021.



"Excellent Enterprises of Chinese Coal Industry for Issuing Social Responsibility Reports" Award



China Coal Energy was selected into the "Top 50 State-owned Enterprise ESG Ranking"



## Providing High-Quality Products, Ensuring Supply of Energy

Scientifically Organizing Production

Improving Marketing System

Providing High-Quality Products

Improving Quality and Efficiency

## Economic Responsibility







2021 was an extraordinary year in the history of China Coal Energy. China Coal Energy fully committed to the guidance of Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era over the year. The pandemic control, production and operation were coordinated, and the Three-year Action Plan for the Reform of State-owned Enterprises was further promoted. China Coal Energy vigorously promoted technological innovation, and achieved the best level of production and operation in history. The results of the Company moved to a historical high level, and a breakthrough progress has been achieved in the key work of reform and development, with achieving a good start to the development of the "14th Five-Year" plan.

## Scientifically Organizing Production

**Coal production:** In 2021, the Company enhanced coal production organization, optimized the production system, and continuously improved the level of output and input per unit. By increasing its efforts on unleashing the production capacity of open pit coal mines and newly built massive coal mines in Inner Mongolia and Shaanxi regions which have ample resources, rich reserves and sound systems, the Company strived to increase the production volume of quality coal, and to increase production, ensure supply and stabilize prices. Hence, the Company has played a critical role and acted as a pillar in securing energy supply. Accelerating intelligent coal construction, 35 intelligent coal mining working faces in 5 national first batch of intelligent demonstration coal mines have been built, thereby accomplishing reduction of manual operation and efficiency enhancement via intelligent mining. In 2021, raw coal productivity was 37.3 tonnes per worker-shift, maintaining a leading level in the coal industry. During the reporting period, the commercial coal output of the Company reached 112.74 million tonnes, representing a year-on-year increase of 2.73 million tonnes or 2.5% over the 110.01 million tonnes in previous year.

**Coal chemical production:** In 2021, the Company kept enhancing its production organisation and management. Through professional management measures such as optimising operation, technological modification and enhanced management, the Company continued to maintain stable device operation to realise safe, stable and high load production, with coal chemical operation reaching another new high. During the reporting period, the major coal chemical products output was 4.772 million tonnes, representing a year-on-year increase of 18.1%.

**Coal mining equipment production:** In 2021, the Company continuously optimised the organisation of production, and strengthened the precise connection with marketing and production and manufacture, production technology preparation and resources supply assurance, thus the preparation time for preliminary stage of production technology such as ordering and design was shortened, and production efficiency was greatly enhanced. The cumulative production value of coal mining equipment was RMB9.46 billion, representing a year-on-year increase of 8.7%.

## Improving Marketing System

**Sales of coal:** The Company conscientiously executed the requirements of securing energy supply by the government, strictly implemented the medium and long-term coal contract mechanism, and actively implemented measures to increase production and sales, and ensure supply and stabilize prices, and made positive contributions to ensuring national energy supply and stable economic and social development. By leveraging advantages of centralised sales of self-produced coal and nationwide marketing network, the Company proactively established a modern management system for coal sales with "extensive and unified sales as well as complete supervision". The Company continued to optimise its market deployment and customer structure, penetrated into traditional southeastern costal markets, edged up exploring market share in inland regions such as central and western China, and fully consolidated its channel for external procurement of coal resources and business scale. With further increase in China Coal's brand advantage, market discourse power and influence, the sales volume of commercial coal reached a historical high record again. During the reporting period, the cumulative sales of commercial coal of the Company reached 291.17 million tonnes, representing a year-on-year increase of 9.7%.

**Sales of coal chemical products:** The Company implemented unified and centralized management of the sales of major coal chemical products. In 2021, in active response to adverse factors such as significant fluctuation of product prices, extreme weather in certain periods and shortage of railway capacity, the Company adjusted its marketing strategy in a flexible manner while continuously optimised its customer structure. By optimising warehouse deployment in different places and enhancing market radiation and product delivery capability, customer satisfaction was raised and thus all coal chemical products manufactured were sold. The Company strictly implemented national policies related to securing supply and stabilizing price of chemical fertilizers, formulated measures to keep urea supply and price stable, carefully arranged sales, strengthened logistics assurance, and actively served with the national food safety. During the reporting period, the sales of the Company's major coal chemical products was 4.921 million tonnes, representing a year-on-year increase of 11.6%.

**Sales of coal mining equipment products:** The Company deeply explored the coal mining machine market, tracked the changes in the market situation in a timely manner, seizing valid orders, to consolidate the market share of leading products. With active efforts on entering into contracts and developing new users, accumulative value of new contracts increased by 22.6% year-on-year. The Company continued to promote non-coal and transformation products. The operations of non-coal chains, water treatment, modified vehicles, drilling equipment, refuse collection vehicles and other non-coal products as well as tunnel boring machines, wind power maintenance and other transformation equipment continued to expand. The Company strove to build a marketing structure for diversified products and continued to expand market boundaries. The revenue from accessories and non-coal business accounted for 51.2% of total.

## Providing High-Quality Products

The Company strictly abided by the Product Quality Law of the People's Republic of China and other laws and regulations, built the awareness of "quality first", and conducted in-depth comprehensive quality management to improve the quality of its products and services. The Company adhered to the principles of honesty and trustworthiness and ensured that advertising for coal mining equipment and other products was true, and that the labels of coal chemical products complied with relevant requirements and regulations and contained true and accurate information. The Company adhered to the principles of legality, legitimacy, transparency and necessity for the collection and use of personal information, proactively expressed the purpose and method of collecting and using personal information to customers, and ensured the minimum necessity of permissions on accessing personal information and system. Meanwhile, the Company strengthened employees' awareness of information security and confidentiality, strictly standardized the authorization process and customer data management, and promptly rectified the hidden dangers of privacy leakage. During the reporting period, there was no major customer privacy leakage incident. Pursuing the "market-oriented and customer-centric" operation philosophy, the Company actively keep itself informed the problems encountered by customers in purchasing and using products and services such as coal, coal chemical products, and coal mining equipment, and provided solutions in a timely manner. Technical support for the pre-sale, in-sale and after-sale were provided to customers for the safety use of the products and services. In 2021, no complaint was received by the Company regarding its products and services and none sold or shipped products was recalled due to safety and health reasons.

### *Improving Coal Product Quality*

The Company further improved coal quality through improving the construction of coal quality management system, exerting more efforts in the evaluation and inspection of coal quality and optimizing product structure. The Company made great efforts to optimize sales profitability by strengthening quality control in the whole process of coal, strengthening its coal blending process, improving product quality and promoting the sales of self-produced coal.

The Company fully employed its comprehensive advantages such as brand, transport capacity and capital, strengthened its assurance of transport capacity, made every effort to expand its coal purchasing channels, and vigorously conducted coordinated sales to meet the diversified demand of customers. The amount of purchased coal increased substantially.

### *Improving Brand Influence of Coal Chemical Products*

Fully taking advantage of the centralized sales of coal chemical products, the Company flexibly adjusted its sales pace while taking into consideration the overhaul plan of coal chemical facilities, thereby ensuring continuity in product supply and stabilizing its market share. The Company constantly improves the market layout, optimizes the sales strategy, and implements the complementary off-peak season to enhance the market share and the influence of China Coal's brand. Keeping abreast with the changes of the market, the Company diversified its product assortment, strengthened its transport capacity support and reduced its logistic costs in order to ensure smooth coordination between production and sales.

The polyethylene products closely followed the market demand and their marks were changed in a timely manner to broaden application areas. Leveraging the Company's strength in industrial chains, economy scale, quality and brand, the urea products successfully expanded into the southern market while consolidating the market shares in the north-eastern market. The Company gradually achieved a stable export market with increasing influence of China Coal's large granular urea in both domestic and overseas markets.

### *Improving Service Quality for Coal Mining Equipment Products*

China Coal Equipment Company conducted strict management of product quality, reinforced control over the production process, strictly fulfilled rewards and punishments regarding quality, and continue to comprehensively enhanced quality management level. China Coal Equipment Company's major production enterprises have passed the international welding quality management system, the review of QEO certification system and CNAS' laboratory accreditation, and the annual review of EN1090 certification for steel products, so that the Company's quality management standard operation capacity, production and manufacturing quality assurance capacity continued to strengthen. All management and technical service staff at all level went deep into customer sites to understand the product running conditions so as to proactively improve post-sale services. They actively conducted customer satisfaction surveys, registered users' main machines, sorted out statistics such as equipment model, operating conditions, user feedback, rectification plan, persons-in-charge and record of return visits, created a standing book on post-sale services, regularly followed users' feedback, supervised the improvements, and further improved services.



## Improving Quality and Efficiency

Since 2021, commodity prices have been surged, and the prices of products including coal and coal chemical have been risen. The Company conducted an in-depth analysis on the macroeconomic situation and changes in market supply and demand, and formulated the *Special Plan for Improving Quality and Efficiency in 2021*. The Company actively organized production and sales, strengthened operation and management, vigorously improved of quality and efficiency to achieve excellent operational performance.

The coal production enterprises achieved close integration of technology and production through innovative research and development of intelligent mining technology and equipment. The Company continued to optimize coal mine technology to reduce working faces, footage and personnel, with an aim to increase coal recovery and economic benefits. During the reporting period, the Company's raw coal productivity was of 37.3 tonnes per worker-shift, maintaining its position as an coal industry leader.

The coal chemical enterprises laid emphasis on improving the device of work safety, stable production, long-period operation, fully-loaded operation and optimum operation. The rising pressure of raw material prices was actively responded to continue to maintain profitability, highlighting the competitive advantage of low cost.

China Coal Equipment Company suggested a number of measures to improve quality and efficiency, forming an excellent situation of reinforcing the management for the company as a whole and improving the efficiency at every level. With overcoming the impact of rising steel prices, the profits of China Coal Equipment Company continued to grow.

The power enterprises formulated specific measures to reinforce coordination and supervision on individual plant basis to strength the organization coordination and supervision to the process, thereby fully leveraging their advantages on sectoral and professional management. By increasing the synergy of coal and electricity businesses, the enterprises strived to generate more profitable electricity, and the overall breakeven would be achieved under the situation of general loss of national thermal power.

## Performance in Economic Responsibility

Name of indicator	2019 (Restated)	2020 (Restated)	2021
Production volume of commercial coal (10 thousand tonnes)	10,184	11,001	<b>11,274</b>
Sales volume of commercial coal (10 thousand tonnes)	23,128	26,544	<b>29,117</b>
Production volume of polyethylene (10 thousand tonnes)	74.5	74.3	<b>74.0</b>
Production volume of polypropylene (10 thousand tonnes)	70.8	72.1	<b>72.4</b>
Production volume of urea (10 thousand tonnes)	199.1	188.6	<b>204.9</b>
Production volume of methanol (10 thousand tonnes)	94.6	69.0	<b>125.9</b>
Production value of coal mining equipment (RMB100 million)	81.5	87.0	<b>94.6</b>
Total assets (RMB100 million)	2,725.65	2,829.45	<b>3,217.38</b>
Net assets attributable to the equity holders of the Company (RMB100 million)	972.02	1,019.99	<b>1,137.86</b>
Operating revenue (RMB100 million)	1,293.35	1,409.65	<b>2,311.27</b>
Total profit (RMB100 million)	121.51	123.27	<b>255.77</b>

Life is the Most Valuable,  
Safety is of Vital Importance

Strengthening System Support Capability  
Preventing and Defusing Safety Risks  
Enhancing Safety Governance Capability  
Strengthening Supervision in Key Period

## Safety Responsibility





In 2021, the Company conscientiously implemented the deployment of production safety of the competent authorities and stuck to the principle of life and safety first, took the three-year action of special rectification of work safety as the main line, focused on fundamentally eliminating major hidden dangers and solving deep-seated problems from the source, solidly promoted the modernization of work safety management system and management ability, effectively prevented and resolved major safety risks, steadily improved the level of safety development, and continued to maintain a stable trend of safety production.

## Strengthening System Support Capability

The Company invested RMB1.876 billion in safety expenses, upgraded the core equipment in coal mines, and promoted the application of advanced equipment such as kilometer directional drilling rigs. The Company vigorously promoted the construction of intrinsically safe enterprises, and its affiliated coal mines and coal chemical enterprises actively participated in the pilot construction works as Intelligent Demonstration Mines of the National Energy Administration as well as "industrial Internet + hazardous chemical safety production" of the Ministry of Emergency Management to continuously strive to consolidate the foundation for safe production. The Company brought into full play to the role of science and technology in strengthening safety, and new breakthroughs have been achieved in tackling many safety science and technology problems such as rock bursts, which has effectively enhanced safety assurance capabilities.

## Preventing and Defusing Safety Risks

The deployment of three-year action of special safety rectification was conscientiously implemented. The Company conducted special research, determined the key tasks, and secured the key responsibilities level by level. The Company deepened the construction of dual prevention mechanism, established a safety risk list in line with the principle of "one list for one mine (plant)", and implemented the four level control responsibilities of mine (plant), department, district team (workshop), team and post one by one, to effectively prevent safety risks. Through adapting expert consultations and business meeting, more than 100 key and difficult

safety issues have been studied and solved, and major safety risks were controlled in advance.

## Enhancing Safety Governance Capability

The Company improved the safety production responsibility system of all employees, improved the construction of safety responsibility system, and secured the safety responsibility level by level. It innovated the safety supervision system, implemented the vertical management of safety supervision for coal mining enterprises, and improved the efficiency of safety supervision. The Company promoted the construction of safety management system based on safety production standardization. Thereby, coal mines such as Anjialing Mine continued to be rated as first-class safety production standardisation coal mines, coal chemical enterprises such as Mengda Chemical Company have commenced the establishment of tier one safe production standardisation, and Shanghai Thermal Power Plant was accredited as the "tier one power safe production standardisation enterprise" by China Electric Power Enterprise Federation. The Company deepened the quality improvement project, commenced safety education and training in respect of laws, regulations and statutes on safe production, and promoted the enhancement of safety quality for all staff. Establishment of emergency rescue equipment was enhanced to improve emergency rescue capacity.

## Strengthening Supervision in Key Period

The Company organized and carried out a series of activities such as "Warning Campaign in March", "Safe Production Month" and "Hundred-Day Safety", to create a strong atmosphere of safe production. By integrating safe production work at seasonal and key periods, the Company has formulated targeted safe management and control measures, increased the frequency and efforts on safety checks, and fully safeguarded the stable and orderly trend for safe production.

## Performance in Safety Responsibility

Name of indicator	2019	2020	2021
Safe Production Expenditure (RMB100 million)	15.64	21.67	<b>18.76</b>
Number of Work-related Death Per Year (person)	4	8	<b>5</b>
Annual Work-related Death Rate (person/per hundred person)	0.009	0.019	<b>0.011</b>
Of Which the Number of Work Safety Liability Incident-related Death (person)	0	0	<b>4</b>

Note: The number of work-related death per year is calculated based on the number of employees receiving work-related death insurance from the Company.





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## Adhere to Green and Low Carbon, Improve the Ecological Environment

In Response to Climate Change  
Strengthening Environmental Protection  
Conserving Energy Resources

Environmental  
Responsibility







Upholding Xi Jinping's Thought on Ecological Civilization, China Coal Energy has conscientiously implemented the national policy of resource conservation and environmental protection and consciously practiced the new development concept. The Company adhered to a green, low-carbon, intelligent and efficient development, and promoted the all-round quality development of the coal-based industrial chain.

## In Response to Climate Change

### *Risks, opportunities and impact on the Company of climate change*

In response to climate change, promoting low-carbon development have become a global consensus. The major strategic decision of the Party Central Committee on carbon emissions peak and carbon neutrality provided a fundamental basis for promoting the comprehensive green and low-carbon development and transformation of domestic economic and social development. According to the Working Guidance for Carbon Emissions Peak and Carbon Neutrality in Full and Faithful Implementation of the New Development Philosophy and Action Plan for Carbon Emissions Peak before 2030 issued by the CPC Central Committee and the State Council, the Company investigated policies and regulations on national carbon emissions peak and carbon neutrality, carbon market and carbon finance. The Company worked with the Company's "14th Five-Year" development plan, identifying and evaluating the risks and opportunities appeared in the major business segments, and formulating corresponding measures. The Company focused on impact of climate change on extreme weather, got well prepared on preventing seasonal extreme weather such as flooding, raining, snowing, freezing, and high temperature, therefore the emergency plans were enhanced, and emergency response capabilities were improved.

The Company established a specific carbon asset management organization to carry out specific work on energy conservation, efficiency improvement and carbon reduction. With focus on electric power, coal chemical engineering and coal, the operation efficiency of the industrial chain will be comprehensively improved through technological innovation, transformation and upgrading of energy saving and carbon reduction, therefore the comprehensive energy consumption and carbon emissions will be further reduced to meet the challenges of climate change. The Company made full use of the policy guidance, and strived to comprehensively utilize the underground resources and develop the above-ground resources. The Company proactively promoted the deep integration and development of coal-electricity-chemical industry and new energy, and strived to create an industrial pattern of multi-energy complementary and circular economy such as wind power, photovoltaics, hydrogen energy, and power reserve, to provide cleaner energy products and services to meet the evolving market demands.

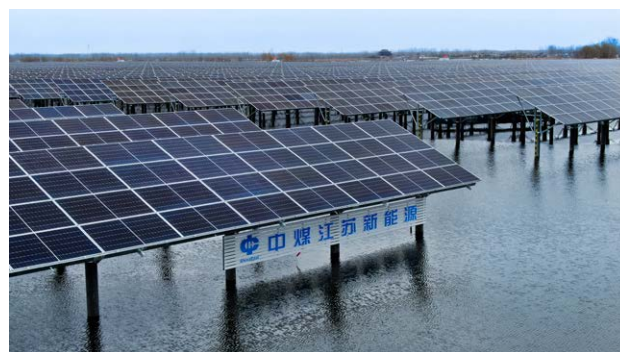
### *Control greenhouse gas emissions*

The Company issued the *Interim Measures for Carbon Emission and Carbon Asset Management* to standardize the establishment of a three-level carbon asset management system of "company headquarters – secondary companies – plants/mines", which effectively prevented and controlled carbon trading and the risks of compliance for carbon allowance, to reduce greenhouse gas emission, and promote the green and low-carbon development of the Company.

In 2021, the Company followed the standards of *Guidelines on Enterprises Greenhouse Gas Emissions Accounting and Reporting (Power Generation Facilities)*, *Guidelines for Enterprise Greenhouse Gas Emission Accounting and Reporting (Chemical Industry)* and *Guidelines for Enterprise Greenhouse Gas Emission Accounting and Reporting (Coal Production) (Trial)*, organized the investigated greenhouse gas emissions. According to statistics, in 2020, the total carbon emissions of the Company's power and chemical segments was approximately 33.5 million tonnes, with the carbon emission intensity of 18.12 tonnes per RMB10,000. Currently, in accordance with the requirements of the Ministry of Ecology and Environment, the Company is checking and auditing greenhouse gas data in 2021 of its key emission entities. Since the greenhouse gas emission report and data are subject to the review by third-party authorities designated by competent governmental organization, the Company will disclose it in the ESG report next year.

### *Promote green and low-carbon transformation and development*

In 2021, the Company adopted the development direction of "efficiency enhancement and incremental transformation", established and improved carbon emission and carbon asset management systems, optimized its workflow, and improved management levels. The Company continued to carry out carbon inventory of key emission entities and continuously consolidated the carbon emission data foundation. The Company actively and steadily participated in the national carbon market transactions, the compliance of the first year was fully completed on schedule. The development path of green transformation under the context of "dual carbon" was studied and explored, the potential of energy saving, carbon reduction and efficiency improvement was further explored, the innovation of low-carbon technology was enhanced, carbon storage was reduced, carbon increase was strictly controlled, carbon negative was developed, and green and low-carbon transformation and development were accelerated.



Shanghai Energy New Energy Model Base

## Strengthening Environmental Protection

The Company adhered on the clean and efficient development and utilization of energy resources as an important way to achieve quality development. Ecological and environmental protection were the political responsibility and social responsibility that must be fulfilled, and the green development and clean and efficient transformation of coal was continuously promoted. The main indicators continued to perform well while no environmental emergencies occurred during the year.

### Wastewater treatment and reuse

The wastewater discharged by the Company is mainly coal mine water, coal chemical industry wastewater, and the main water pollutant is chemical oxygen demand. The discharge standards implemented include the *Emission Standard for Pollutants from the Coal Industry (GB20426-2006)* and the *Integrated Wastewater Discharge Standards (GB8978-1996)*. In accordance with the different characteristics and methods of reuse of mine water, industrial wastewater and domestic sewage, the Company adopted corresponding processing techniques, continuously promoted the deep treatment and reuse of mine water and industrial wastewater to maximize the comprehensive utilization of wastewater resources, and discharged the rest after meeting the standards. In 2021, the chemical oxygen demand of the Company decreased by 23.1% year on year, with a comprehensive utilization of mine water of 90.5%, maintaining a leading level in the industry.

### Air pollution control

The exhaust gas emitted by the Company is mainly flue gas generated by coal-fired boilers, and the main air pollutant are soot, sulfur dioxide and nitrogen oxides and the discharge standards implemented are the *Emission Standard of Air Pollutants for Thermal Power Plants (GB13223-2011)* and the *Emission Standard of Air Pollutants for Boilers (GB13271-2014)*. The Company launched the special initiative in controlling volatile organic compounds (VOCs), continued to strengthen comprehensive control of fugitive dust in open-pit coal mines, accelerated to advance the fully enclosed transformation of coal storage yards, therefore the regional air quality continued to improve.

### Solid waste disposal and utilization

The solid waste generated by the Company is mainly hazardous waste such as greasy waste and general industrial solid waste such as coal gangue. The Company strictly carried out solid waste disposal in accordance with the laws, regulations and standards including the *Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste*, the *Standard for Pollution Control on the General Industrial Solid Waste Storage and Landfill (GB18599-2020)*, and the *Hazardous Waste Transfer Coupon Management Measures*. The Company actively promoted the resource utilization of general industrial solid waste, disposed of hazardous waste in compliance with laws and regulations, accelerated the application of new technologies for resource utilization such as coal gangue, coal fly ash, and chemical waste, to further reduce treatment costs and maximize the level of solid waste utilization.

### Hazardous wastes

The hazardous wastes produced by the Company are mainly greasy waste and catalysts waste. The Company built a temporary storage warehouse for hazardous waste in accordance with the *Standard for Pollution Control on Hazardous Waste Storage (GB18597-2001)*, which transferred hazardous waste to qualified entities for disposal. In 2021, the Company generated 116,000 tonnes of hazardous waste, with 10.6 kg of hazardous waste per RMB10,000 of production output were generated and disposed of in a standardized manner.

### General industrial solid waste

The general industrial solid waste produced by the Company is mainly coal gangue. The Company has comprehensively utilized coal gangue in multiple ways, including power generation, production of construction materials, extraction of high value-added products, road backfilling and land reclamation so as to improve the resource utilization efficiency. Those could not be utilized was disposed of in accordance with *Standard for Controlling Pollution from Sites for Storing and Landfilling of General Industrial Solid Waste (GB18599-2020)*. In 2021, the Company produced 24.47 million tonnes of coal gangue, with approximately 0.2 tonne of coal gangue produced for one tonne of commercial coal, and with a comprehensive utilization of 22.83 million tonnes. The Company also produced 6.97 million tonnes of other general industrial solid waste including coal fly ash, cinder and chemical waste, with a comprehensive utilization of 4.29 million tonnes.

### Ecological restoration

The Company strictly abided by the relevant laws and regulations such as the *Water and Soil Conservation Law of the People's Republic of China* and the *Provisions on the Protection of the Geologic Environment of Mines*, built coal gangue dumping site as a high standard ecological environment model project, seamlessly synthesized green mine construction concepts into production and construction, land reclamation, and water and soil conservation, and conducted ecological environmental management. Our open-pit coal mining operation realized the integration of "stripping, mining, backfilling, and reclamation". Underground coal mines made comprehensive use of coal gangue through road construction, brick making, land reclamation and low calorific value coal-fired power plants, so as to fully recover and improve the ecological environment of the mining area and coordinate environmental, economic and social benefits. As of the end of 2021, seven coal mines of the Company were included into the State Green Mine Catalogue.

China Coal Pingshuo Group insisted on parallel planning, implementation and development of ecological reconstruction and economic construction. Our open-pit coal mining operation explore the integration of "stripping, mining, backfilling, and reclamation", to achieve green mines after mining and realize green mining of carbon black industry, which set a model for the ecological restoration and management of mines in the Loess Plateau. Over the past 30 years, more than 51,000 mu of land has been reclaimed, more than 20,000 mu of arable land has been restored, more than 20,000 mu of underground mining subsidence area has been controlled, and more than 60,000 mu of forest has been planted around the mining area, through which the Pingshuo mining area with criss-cross in ravines and gullies, full of loess, and vegetation coverage of less than 10% has been transformed into a green forest, and the local climate has been improved. The vegetation coverage rate of the Pingshuo mining area of 380 square kilometers has reached more than 50%, and the vegetation coverage rate



of the reclamation area of the dump site has reached more than 95%. China Coal Pingshuo Group performed social responsibility in an excellent way regarding of environmental protection, ecological construction, biodiversity protection, and development of circular economy, which was leading in the industry. It has successively won many significant awards such as the Most Beautiful Mine in China (中国最美矿山), National Greening Advanced Entity (全国绿化先进单位), Low-Carbon Development Outstanding Contribution Enterprise in China (中国低碳发展突出贡献企业), The Most Influential Green Enterprise Brand in China (中国最具影响力绿色企业品牌), and the Gold Award of Golden Flag Award for Environmental Protection (金旗奖环境保护金奖). The green development practice of the Pingshuo mining area has received continuous attention from domestic mainstream media, and has been published on various media such as CCTV, People's Daily, People's Daily Online, Xinhuanet for many times, expanding its popularity and enhancing its social influence.

## Conserving Energy Resources

### Conserving energy

The Company has strictly abided by the laws and regulations such as the *Law of the People's Republic of China on Conserving Energy*, the *Renewable Energy Law of the People's Republic of China* and the *Circular Economy Promotion Law of the People's Republic of China*, prioritized on energy saving in its production and operations, and strived to consume minimal energy to guarantee normal production and operation activities. The conservation of coal, electricity, oil and other energy resources has been fully promoted in each of the Company's bases, industry sectors, enterprises and fields, achieving good results in energy saving, emission reduction, cost reduction and efficiency. In 2021, the Company's integrated energy consumption per RMB10,000 worth of production output (comparable price in 2015) was 1.295 tonnes of standard coal/RMB10,000, representing a year-on-year decrease of 7.23%. The comprehensive energy consumption for raw coal production was 4.14 kg standard coal/tonne coal, staying ahead of that of its industry peers.

### Key Energy Consumption Data of the Company

Total consumption and density		2020	2021
Direct energy	Total raw coal consumption (10 thousand tonnes)	1,322	<b>1,916</b>
	Total oil consumption (10 thousand tonnes)	21.78	<b>21.78</b>
Indirect energy	Total electricity consumption (100 million kWh)	48.12	<b>52.02</b>
Overall energy consumption (10 thousand tonnes standard coal)		1,023	<b>1,061</b>
Integrated energy consumption per RMB10,000 worth of production output (tonnes standard coal/RMB10,000)		1.396	<b>1.295</b>



China Coal Pingshuo Green Mining Area



## Environmental Responsibility

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Coal segment: Coal enterprises vigorously promoted energy-saving technological transformation and continuously optimized coal mining design. The transportation route of the open-pit coal mines and the heating system in the mining area were renovated. The Company reformed the frequency conversion of belt conveyors in coal mines, and eliminated and replaced outdated electrical equipment to increase the energy efficiency.

Coal chemical engineering segment: The coal chemical enterprises pushed ahead its operation in compliance with the objective of “work safety, stable production, long-period operation, fully-loaded operation and producing quality products”, and adhered to the guarantee of long-term high-load stable operation. The construction of the production management system was continuously promoted, the basic management capabilities were continuously consolidated, the retrofit potential of energy saving and carbon reduction technology were further discussed, to optimize the production process, and continuously improve the energy efficiency.

Electricity segment: Power enterprises implemented technical transformation projects such as high pressure and heating transformation of steam turbine, zero-power transformation and parameters of mechanical sets improvement. The Company conducted overall planning for regional heating by applying centralized heating in power plants, and recycling and using residual heat of water source heat pump, air compressor and flue gas by adopting the contract energy management model to replace coal-fired boilers. Therefore, the coal consumption for power supply during the year decreased.

### ***Resource conservation***

Resource recycling: The Company continued to increase the selected proportion of raw coal, and continued to strengthen the comprehensive utilization efficiency of resources. The Company actively utilize underground filling and layer separation grouting to maximize on-site consumption and safe disposal of coal gangue. The Company optimized and adjusted the production process and parameters of low calorific value coal-fired power plants, prioritized the consumption of low calorific value coal from self-owned coal mines, and promoted the clean utilization and transformation of coal.

Water conservation: The Company strengthened the analysis and demonstration of water sources, water extraction, water use and water conservation measures. Industrial water-saving facilities in construction projects were designed, constructed and put into operation with the main project at the same time. No difficulties on seeking water resources. The Company strengthened water-saving management throughout the production process, and implemented water-use plans and target management. It strengthened the treatment and regional recycling of mine water, promoted advanced water-saving technology and equipment, realized the cascade utilization and recycling of water resources, improved water use efficiency, and reduced the consumption of fresh water. The fresh water consumption of the Company (total water consumption) in 2021 was 70.25 million tonnes, and the fresh water consumption per ten thousand of production value was 8.57 tonnes, and the reuse rate reached 97.83%.

### ***Construction of energy management system***

The Company continuously updated system documents to ensure the effectiveness of the energy management system. In order to effectively improve energy utilization efficiency, strengthen the energy use process and continuously optimize the production elements, the affiliated companies such as Inner Mongolia China Coal Mengda New Energy & Chemical Company Limited and China Coal Beijing Coal Mine Machinery Co., Ltd. followed the standard of Energy Management Systems-Requirements with Guidance for Use (GB/T 23331-2020) to carry out conversion and certificate renewal in order to ensure the continuous and effective operation of the energy management system.

Energy measuring facilities were improved to advance the level of refined management of energy consumption. In order to promote the whole process, comprehensive and intelligent transformation and upgrading of energy measurement, the affiliated companies such as China Coal Pingshuo Group Co., Ltd and China Coal Shaanxi Company carried out the construction of energy consumption online monitoring system, to measure, count and analyze energy consumption data in real time, which provided basic support for the establishment of resource-saving, green and low-carbon enterprises.

### ***Promotion of energy saving and low carbon***

The Company focused on the energy saving theme of “energy saving and low carbon, green development” and the low carbon theme of “low-carbon living, green living in the future”, organized and carried out energy saving and low carbon promotion activities with rich content and various forms, and participated in energy saving and low carbon online specific training for national enterprises held by the State-owned Assets Supervision and Administration Commission of the State Council. The affiliated companies created energy saving promotion column, energy saving and low carbon online quizzes, and the campaign of low-carbon travel and brisk walking to enhance employees’ awareness of energy saving and low carbon.

### ***Packaging materials***

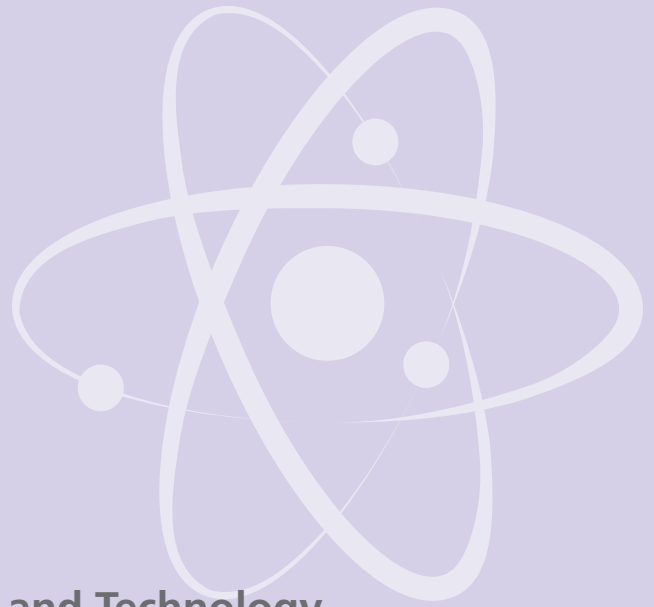
The coal products produced by the Company are bulk commodity and do not require the use of packaging materials. Only a few coal chemical products use a small amount of packaging bags, which has little impact on the environment.



Promotion of energy saving and low carbon

## Performance in Environmental Responsibility

Name of Indicator	2019	2020	2021
Integrated energy consumption per RMB10,000 worth of production output (TCE/RMB10,000)	1.371	1.396	<b>1.295</b>
Comprehensive utilization rate of coal gangue (%)	89.2	89.4	<b>93.1</b>
Comprehensive utilization rate of mine water (%)	89.8	93.3	<b>90.5</b>
Emission volume of sulphur dioxide (tonne)	2,976	2,724	<b>2,299</b>
Emission volume of NOx (tonne)	4,002	4,006	<b>3,978</b>
Emission volume of chemical oxygen demand (tonne)	376	183	<b>141</b>
Ammonia nitrogen (tonne)	19	8	<b>9</b>



## Promoting Science and Technology Innovation to Lead the Industry Development

Enhancing Innovative Capacity

Strengthening Key Technology Research and Development

Deepening Innovation and Entrepreneurship Activities

Strengthening Intellectual Property Protection

## Innovation Responsibility







In 2021, China Coal Energy was based on new development stages, implemented new development ideas, established new development picture, and focused on the development direction of “efficiency enhancement and incremental transformation”. The major direction of technology innovation focused on “safety, efficiency, green and intelligence”. The Company investigated and deployed the top-level design of scientific and technological innovation, increased investment in scientific and technological innovation, and solidly proceeded the development of key scientific and technological projects, and continued to deepen the effort of “mass entrepreneurship and innovation”. Technological innovation, results conversion and technical optimization have led to cost reduction, efficiency enhancement, savings and investment, contributing to quality development of the Company.

## Enhancing Innovative Capacity

The Company is committed to the in-depth implementation of innovation-driven development strategy, comprehensively deepened reforms, reorganized and established the Science and Technology Innovation Department, and set up a new digital innovation center. The Company also strengthened top-level design by releasing the “14th Five-Year Plan” for scientific and technological development, and clarified the major direction of scientific and technological innovation in the “14th Five-Year Plan”. The Company comprehensively coordinated resources, introduced a series of measures to accelerate scientific and technological innovation, and adhered to the connection between the “Project” and the “Plan”. It accelerated the construction of innovation platform, and promoted the construction of professional research institutes and “Digital China Coal”. The Company optimized the management of scientific and technological innovation, organized the formulation and revision of a number of scientific and technological innovation management systems conducive to release the momentum of innovation, and “escort” high-quality scientific and technological innovation.

As at the end of 2021, the Company has established an independent, open and integrated R&D system comprised of China Coal and Coal Chemical Research Institute, China Coal Equipment Research Institute, 1 national energy extraction equipment R&D experimental center, 3 national enterprise technology centers, 2 national energy technology equipment evaluation centers, 5 provincial enterprise technology centers, 5 provincial engineering technology research centers, 3 provincial technology innovation centers, 7 nationally recognized laboratories, 5 postdoctoral research stations, 15 high-tech enterprises, 4 “mass entrepreneurship and innovation” model bases, the China Coal Energy-China Coal Science and Technology Innovation Strategic Cooperation Alliance, and the China Coal Energy-China University of Mining and Technology Collaborative Innovation Center, significantly enhancing its technological innovation capabilities.

## Strengthening Key Technology Research and Development

New steps have been taken in tackling key scientific and technological problems in the intelligent construction of coal mines. A series of technological projects development in the intelligent technologies in coal mines were organized and conducted. The Company organized and implemented a series of intelligent coal mine science and technology projects, realized the application of 5G 700MHZ frequency channel for the first time in the domestic coal field, and realized the BIM three-dimensional visual whole life cycle management of coal preparation plant for the first time. Zhongtian Hechuang Energy CO., Ltd built the first large mining height intelligent working face of deep rock burst coal seam in China, and the normalized intelligent productivity of Northwest Energy Company exceeded 85%, the Jinggong Coal Mine has built 20 intelligent coal mining working faces (including 16 new ones), 15 intelligent heading working faces and 116 fixed posts, which are unattended; the first *Code for the Construction of Intelligent Open-pit Coal Mines* in China was established, the driverless operation of seven mining trucks was completed, and the technical breakthrough of the first unattended remote-controlled drilling rig in China was promoted.

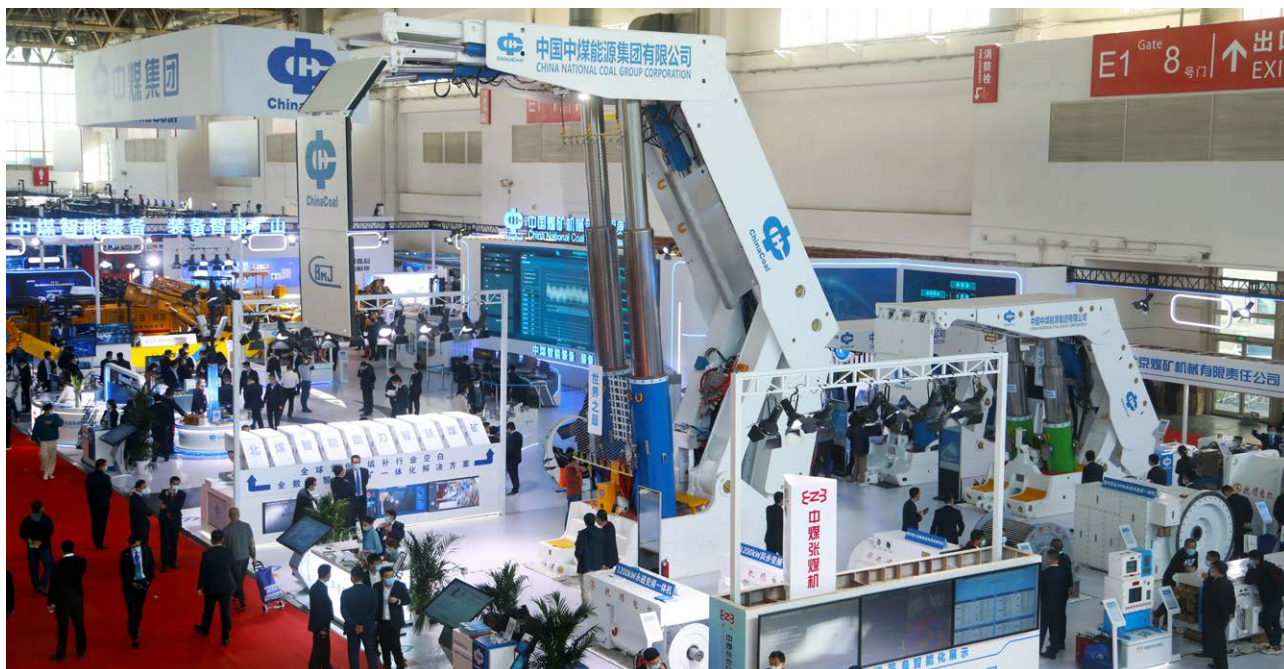


The first release of 5G 700MHz converged packet networking in the coal industry was completed by Dahaize Coal Mine

## Innovation Responsibility

New achievements have been made in tackling key problems of green and low-carbon technology in coal chemical industry. The “R&D and system application of resource utilization technology of mine water and chemical wastewater in Inner Mongolia and Shaanxi”, organized and implemented by the Company, was successfully demonstrated and applied in the Company’s Inner Mongolia and Shaanxi base, which increased the reuse rate of mine water to more than 89%, alleviated the current status of lack of regional water resources, and won the First Prize of Science and Technology Progress in the coal industry. The “Research on advanced treatment and utilization technology of DMTO purified water”, organized and implemented by the Company has reduced the pressure of environmental protection for China Coal Mengda Chemical Company, with an annual efficiency of millions of RMB. The “Research on intelligent control technology of coal gasification device”, organized and implemented by the Company, has been successfully applied and demonstrated in the gasifier of China Coal Energy Shaanxi Company, with the automatic control rate reaching 100% and realizing the functions of one button load lifting and lowering. The “New complete set of fine slag dehydration and drying technology of coal gasification ash water treatment system”, organized and implemented by the Company, realized the resource utilization of waste slag in China Coal Energy Shaanxi Company. Focusing on the goal of “peak carbon emission and carbon neutralization”, a research agreement was signed with Dalian Institute of Chemical Physics, China Academy of Sciences to study the comprehensive utilization technology of CO<sub>2</sub> and “green hydrogen” to methanol, and explore a new path for low-carbon development of coal chemical industry.

The research and development of high-end coal mining equipment has reached a new level. The first set of domestic automatic mining and transportation system integrating supplies transportation, coal winning machine traction and automatic towing has been developed, which has formed a leading advantage in the field of scraper conveying equipment in “two thick and one thin” (兩厚一薄) working face. The 10-meter mining height hydraulic support with independent intellectual property rights has been successfully developed, and many technical targets are internationally leading. The industry’s first “mining intrinsically safe 5G integrated communication system” has realized the functions of underground high-speed transmission, 4G/5G integrated call, emergency broadcast and accurate positioning of underground personnel, and helped the construction of smart mines. The projects of “intelligent heterogeneous SGZ1400-5000 conveyor” and “intelligent mining system of fully mechanized mining working face” submitted by the Company were selected into the list of the first major technical equipment projects in the energy field of National Energy Administration in 2021 and the excellent cases of digital transformation of state-owned enterprises by State Owned Assets Supervision and Administration Commission of the State Council.



The world’s largest intelligent stent with a mining height of 10 meters was manufactured by the Company

The Company’s R&D investment reached RMB4.533 billion for the year, representing a year-on-year increase of RMB1.85 billion or 68.95%. The average enterprise R&D investment intensity of coal production, equipment manufacturing and others reached more than 3.2%. The implementation of 37 major and key scientific and technological projects of the Company were promoted, and the appraisal of 15 provincial and ministerial advanced scientific and technological achievements were completed.

In 2021, the Company won a total of 25 industry and provincial and ministerial scientific and technology progress awards, of which 16 scientific and technology progress awards from China National Coal Association, and the Company, as the project leader, won 6 awards, including 1 first prize, which achieved the best performance in the past 5 years.





## Deepening Innovation and Entrepreneurship Activities

The Company solidly proceeded with the development of its “mass entrepreneurship and innovation” base. Shanghai Energy Company strived to build a “mass entrepreneurship and innovation” base for intelligent manufacturing industrial parks, focusing the industries of electro-hydraulic control system manufacturing and repairing, underground “one-ventilation and three-prevention” (“一通三防”) safety equipment. Pingshuo Group launched more than 50 “five small” (“五小”) innovation projects. Northwest Energy Company carried out nearly 150 “mass entrepreneurship and innovation” projects, Shaanxi Company held the annual scientific and technological innovation work meeting to continue to promote the “mass entrepreneurship and innovation” upgrade. Huajin Company cultivated outstanding young technical talents through the innovation studio platform, and 6 of them won in technical and skill competitions at all levels.



Employee skills competition was held by the Company

## Strengthening Intellectual Property Protection

The Company strictly abided with the relevant laws and regulations of national intellectual property protection, and formulated the system of “Administrative Measures for the Intellectual Property Rights (Trial)”, to clarify the intellectual property management process and improve the compliance of intellectual property protection effort. The Company has specialists to classify and manage the intellectual property-related technical documents. The Company invited experts from patent companies to guide enterprises to apply for patents, and solved the difficulties and problems encountered by employees in patent application in a timely manner. When the Company was under cooperation with the third party, the third party is required to abide by the Company’s relevant regulations, protect the Company’s intellectual property rights and technical secrets, and signed a confidentiality agreement during the cooperation.

In 2021, the Company applied 385 patents, including 100 invention patents; 279 patents were granted, including 12 invention patents.

## Performance in Innovation Responsibility

Name of Indicator	2019	2020	2021
R&D investment (RMB100 million)	24.51	26.83	<b>45.33</b>
Number of technological advancement awards above industry level	20	22	<b>25</b>
Number of patents received	177	205	<b>279</b>



## Adhering to People-oriented Philosophy and Sharing Results of Development

Safeguarding the Legitimate Rights of Employees

Promoting Career Development of Employees

Sharing the Results of Corporate Development

## Employee Responsibility





The Company adheres to the employment concept of “people-oriented and sharing results”, promotes the career development of employees, safeguards the legitimate rights of employees, actively advocates democratic management, cares for the health and life of employees, attaches importance to the training of employees’ capabilities, builds a high-quality employee team, and makes every effort to create a development platform for employees, so that employees can share the development results of the Company, and continuously improve employees’ sense of happiness, identity and achievement.

## Safeguarding the Legitimate Rights of Employees

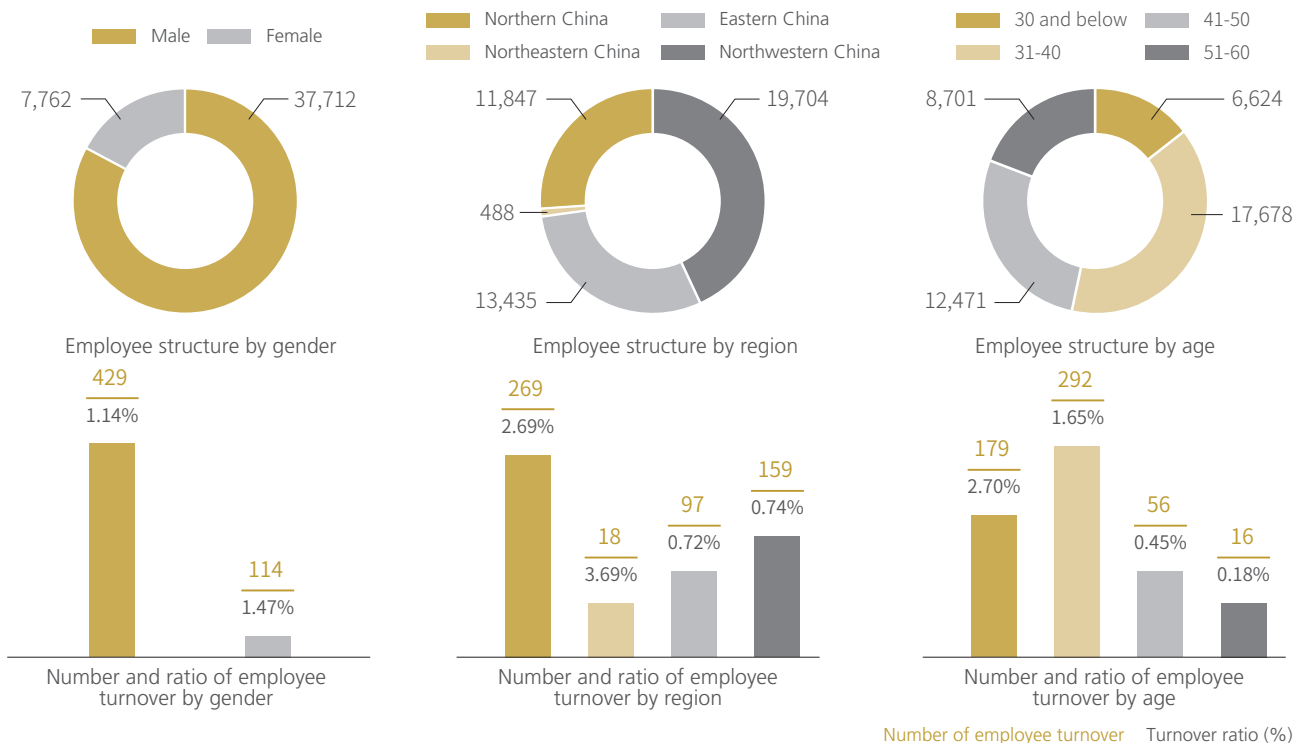
### Regulating employment management

China Coal Energy strictly abides by the *Labor Law of the People’s Republic of China*, the *Labor Contract Law of the People’s Republic of China*, the *Trade Union Law of the People’s Republic of China*, the *Articles of Association of the Trade Union of the People’s Republic of China* and other laws and regulations, adheres to equal and standardized employment, establishes a fair, democratic, competitive and merit-based selection and employment mechanism, publicizes the candidates to be hired, and accepts employee supervision. In 2021, the Company formulated and issued the *Administrative Measures for Competition for Employment of Headquarters Personnel (Trial)* to further deepen the institutional reform of the headquarters, reduce the hierarchy of management, and significantly improve work efficiency and execution.

In the course of employment, the Company complies with the *Provisions on the Prohibition of Using Child Labor* and other laws and regulations, conducts strict qualification review, focuses on reviewing valid documents such as ID card and household register, and eliminates the employment and use of child labor from the root. All forms of employment discrimination are prohibited, and there is no employment of child labor or forced labor. In case of employment of child labor or forced labor, the Company will immediately terminate the labor contract with the employee and hold the relevant personnel accountable in accordance with the law.

We actively provide employment opportunities for ethnic minorities and veterans. The Company protects the rights of female employees, implements equal pay for equal work for men and women, and prohibits the employment of female employees to work underground in coal mines. The Company improves the internal labor market in accordance with laws and regulations, and promotes the orderly flow of front-line employees in all segments. The Company timely updates and improves the employee leave and leave in lieu system, and updates the maternity leave, paternity leave, paternity leave for sole child and unified leave in lieu mechanism. The Company complies with the requirements of the relevant laws and regulations on work hours, and if employees are required to work overtime, the Company will arrange other work days off to compensate or pay for the extra hours according to regulations.

As of 2021, China Coal Energy had a total of 45,474 employees, 7,762 of which were female employees, accounting for 17%. In 2021, the labor contract signing rate of employees was 100%, and the total number of working days lost due to work-related injuries for the year were 23,302 days (Note: calculated based on the number of days compensated by work-related injury insurance).



(Note: Turnover rate of each category = number of employee turnover of the category/total number of employee of the category)

The Company steps up its efforts in the competitive selection of talents and actively promotes the market-oriented recruitment and competitive employment of talents. In 2021, the affiliated companies including Pingshuo Group, Northwest Energy Company, Shaanxi Company and Mengda Company of China Coal Energy carried out open recruitment, and the channels for selection and employment were further expanded.



### ***Facilitating democratic management***

China Coal Energy conscientiously implements various rules and regulations on democratic management of enterprises, adheres to the working principle of submitting major matters concerning the vital interests of employees to the workers' congress for consideration, standardizes the convening of the workers' congress, and stimulates the enthusiasm of employees to participate in enterprise management. The Company implements the factory affairs disclosure system, maximizes the disclosure of matters involving the vital interests of employees in the reform, widely solicits opinions and suggestions from employees, gathers ideas for the development of the Company, and stimulate the sense of belonging and ownership of all employees. The committee gave full play to the role of female employees, organized activities such as theoretical and business learning, professional skills competition, sports competition, and health knowledge lectures for female employees to improve their ability and quality, truly cares for the physical and mental health of female employees to supports the reform and development of the Company.

### ***Emphasizing occupational health***

The Company adheres to the concept of "people-oriented and health first", adheres to the work policy of "prevention-based and prevention and remediation-combined" working approach, continuously improves and optimises its management structure, and perfectes the occupational disease prevention and remediation accountability system. By strengthening governance at source and adopting various measures, the Company implemented occupational disease prevention measures and enhanced the efficiency of prevention and remediation. With continuous introduction of new processes and new equipment, repairment and maintenance of the existing protection facilities and improvement of working environment and conditions, occupational diseases hazards were reduced. Through carrying out education campaign regarding occupational disease prevention and advertising knowledge of occupational diseases, the awareness and ability for self-protection among staff were enhanced. The Company regularly inspected occupational disease hazards in work premises and organised annual occupational health inspection for its staff. Personal protection items were distributed to the staffs with secured quality and quantity. The Company continued to set up and optimise its occupational health records and employee health supervision records to identify health hazards and occupational contraindication on a timely manner, which has in turn effectively prevented occupational diseases.

### ***Optimising remuneration and welfare system***

China Coal Energy is committed to continuously improving its competitive remuneration and welfare system, strengthening target orientation and positive incentives, continuously deepening the reform of income distribution system, optimizing income distribution structure, maintaining the continuous and steady growth of employee income, and effectively stimulating the vitality of corporate talents. The Company will adhere to the classification policy, actively build a diversified aggregate salary management mode, and improve the salary management system that is basically adapted to the labor market, based on position value and based on performance and contribution. The Company strengthens positive motivation, establishes "2+2" high-quality development and transforms and develops a positive incentive mechanism praising model examples to help accomplishing the goal of high-quality development.

We pay social insurance premiums that should be borne by the Company in accordance with laws and regulations to protect employees' social welfare benefits such as pension and medical care. The Company has established an enterprise annuity system in accordance with national policies, which is used as a supplement to the basic pension of employees, and continuously improves the supplementary medical insurance protection to relieve their worries.

## **Promoting Career Development of Employees**

### ***Improving overall caliber of employees***

China Coal Energy adheres to the implementation of the strategy of "strengthening the enterprise with talents" and establishes the concept of "training is the best welfare". The Company has formulated the *Provisional Management Regulations on Employee Education and Training*, and established a training system with unified management of the Company's human resources department, division of responsibilities among departments, and hierarchical management of subsidiaries. The Company will strengthen the construction of China Coal Party School, continuously improve the three training bases of China Coal Vocational and Technical College, Pingshuo Group Education and Training Center and China Coal Coal Chemical Training Center, and the software and hardware strength of the training centers of subsidiaries, strengthen training coordination, vigorously improve training efficiency, comprehensively improve the overall quality and business ability of employees, and strive to achieve the common development of employees and the Company.

In 2021, the Company focused on the strategic layout of the "14th Five-Year Plan", took the opportunity of the Three-year Action for the Reform of State owned Enterprises and the Improvement Action of Benchmarking against World-class Management to achieve professionalism, precision and specialization, strengthened the construction of employee education and training system, cultivated a loyal, clean and responsible high-quality professional cadre team and a team of talents which can courageously innovate and create, and carried out various trainings such as operation management, party affairs, quality improvement and safety production. At the company level, the Company organized more than 2,600 person-times of training, and the training institutions of secondary enterprises and below had accumulated more than 70,000 person-times of training. Among them, there were more than 60,000 male employees, with a training ratio of approximately 76% and an average of 22.1 training hours, more than 10,000 female employees, with a training ratio of approximately 72%, and an average of 22.2 training hours; 90% of operation and management personnel were trained, with an average of 27 training hours per person; 70% of professional and technical personnel were trained, with an average of 20 training hours per person; 75% of the skilled personnel were trained, with an average of 22.5 training hours per person.





By the end of 2021, China Coal Energy boasted over 280 senior professional managers in the coal industry, 67 “master technicians in the coal industry”, 4 “excellent technicians in the coal industry”, 23 studios for master technicians in the coal industry and 15 personnel entitled to special government allowances. One employee was selected as one of the “Hundred Outstanding Craftsmen” of central enterprises, and 12 employees were awarded the honorary title of “National Technical Expert” by the State Ministry of Human Resources and Social Security.

### Facilitating staff development

The Company conscientiously implements the requirements of the Central Committee of the Communist Party of China on deepening the reform of the talent development system, optimises its talent assessment system, and explores growth space for its talents. The Company has formulated the *Measures for the Administration of Qualifications of Professional and Technical Positions*, the *Measures for the Administration of Career Development of Headquarters Employees* and the *Measures for the Implementation of the Career Development of High-skilled Talents and Engineering Technology Talents*, which provide a smooth career development channel for operation and management, professional and technical as well as skill operational talents, open up the connection channel between high-skilled talents and engineering technology talents, and improve the career development system of employees.

The Company actively promotes talent evaluation, continues to carry out professional title evaluation, and improves the technical skills of talents. In 2021, a total of 570 people passed the five series of high-level professional title evaluation of teachers and government workers in engineering, economics, accounting and technical schools, etc., and obtained corresponding professional titles. The Company strengthens the management of vocational skills evaluation. In 2021, 68 employees passed the review for senior technicians in the coal industry, and 187 employees passed the review for technicians.

## Sharing the Results of Corporate Development

China Coal Energy insists on sharing development results with employees while developing the Company. The Company insists on serving all employees, continuously improves the working and living environment for employees, creates an atmosphere where the Company cares for employees and employees love the Company, enhances the sense of happiness and achievement of employees, and promotes the comprehensive development and progress of the Company and employees.

### Balancing work and life

With the goal of building a harmonious enterprise and guided by meeting the needs of employees for a better life, China Coal Energy actively creates opportunities, makes full use of the employees activity rooms, clubs, stadiums and other places, organizes and carries out various healthy and enjoyable cultural and sports activities according to local conditions, with a view to cultivating a distinctive corporate culture, improving the coverage and sharing of employees’ cultural and sports activities, meeting the spiritual and cultural needs of employees, and continuously enhancing the cohesion of the enterprise.

### Helping employees in need

The Company always pays attention to vulnerable groups and employees in need, establishes the assistance standards and dynamic adjustment mechanisms for employees in difficulties, clarifies the work processes of assistance application, investigation and verification, review and approval, clarifies the work responsibilities of registration, assistance and implementation, and poverty alleviation assessment, creates a rapid assistance channel to provide direct, fast and convenient assistance and services for employees in need, enhance the operability, pertinence and effectiveness of assistance work, continuously improve the quality of assistance work, and deliver the warmth from the enterprise as a family to employees.

## Performance in Employee Responsibility

Name of indicator	2019	2020	2021
Number of on-the-job employees (person)	42,112	41,593	<b>45,474</b>
Contract signing rate (%)	100	100	<b>100</b>
Social insurance coverage rate (%)	100	100	<b>100</b>
Trade union participation rate (%)	100	100	<b>100</b>
Staff turnover rate (%)	1.2	1.5	<b>1.2</b>



## Facilitating Rural Revitalization and Actively Giving Back to Society

Facilitating Rural Revitalization  
Benefiting Local People's Livelihood  
Partaking in Social Welfare Activities

## Community Responsibility





A company's development depends on the long-term support and assistance from the communities at its operation locations. China Coal Energy attaches great importance to economic and social development at its operation locations, actively takes social responsibility and supports the construction of local economy while ensuring its own operations and development. Activities were carried out, including helping and supporting those in need, making financial donations to help develop education as well as disaster relief and rescue, to develop together with communities at its operation locations and to achieve mutual benefits and mutual success.

## Facilitating Rural Revitalization

In 2021, the Company earnestly studied the new concepts, strategies and measures of General Secretary Xi Jinping on rural revitalization, and implemented the spirit of the Central Committee of the Communist Party of China on consolidating and expanding the effective connection between the achievements of poverty alleviation and rural revitalization. We strictly fulfilled the requirements of "Four Don'ts" ("四个不摘"), strived to overcome the adverse impact of the COVID-19 pandemic, insisted on not reducing efforts, not wearing off enthusiasm and not lowering standards, and spared no effort to provide targeted assistance. The Company's affiliated enterprises helped 21 villages/towns, carried out 32 assistance projects of various types, and allocated donation funds of more than RMB25.99 million (including cash equivalents for material aid) mainly to provide support for industrial revitalization, talent revitalization, ecological revitalization, cultural revitalization and organizational revitalization, and love and caring activities. As always, the Company continued to step up its effort in assistance by consumption and purchased agricultural and sideline products of more than RMB23 million from the assisted areas. The Company designated 22 temporary assistance cadres, first secretaries to the village and members of the working team to the village, and assigned its leaders and cadres of 124 person-times to conduct researches in the assisted points. We will continue to facilitate the development of poverty-stricken areas and the improvement of people's lives, and ensure that the population and areas getting rid of poverty will not fall behind in the rural revitalization.

In accordance with the unified arrangement and deployment of the SASAC of the State Council, China Coal Energy has invested in the construction of China Coal Polyolefin Modification Experimental Base Project in Pingxiang County, Hebei Province. Relying on the technical, performance and marketing advantages of China Coal Energy's coal-to-polyolefin products, China Coal Energy provides high value-added new material products for Pingxiang County and surrounding markets mainly in the form of customized production and sales, which drives the upgrading of local plastic industry, and provides support for the high-quality development of local baby carriage industry. In July 2021, 50 tonnes of glass fiber-reinforced polypropylene were produced by the project for the first time and sold to the local factories on a trial basis, marking the full operation of the project and making positive contributions to Pingxiang County through consolidating the effectiveness of poverty alleviation, facilitating rural revitalization and promoting economic development.

In 2021, Shanghai Energy Company actively responded to the national rural revitalization strategy, studied the special assistance work plan, and supported the assisted areas to consolidate the achievements of poverty alleviation. The Company provided targeted assistance to Suining County, Jiangsu Province, designated a cadre to take a temporary post as the first secretary to Luwa Village, Suining County, and allocated donation funds of RMB1 million to the assistance team of the CPC Jiangsu Provincial Committee in Suining County. The Company actively participated in assistance by consumption, and purchased agricultural products of more than RMB1.85 million from Yu County, Hebei and Yinjiang Tujia and Miao Autonomous County, Guizhou.



Commencement of the Company's industry support project

## Benefiting Local People's Livelihood

China Coal Energy, with its own funds, labor and technology, actively participated in local economic construction and offered assistance to communities through project construction, production, sales, etc., to promote the upgrading of local industries and economic development, achieving the harmonious win-win mutual development with local governments. In 2021, the Company's social contribution through the payment of taxes, labor costs, net profit and interest expenses amounted to RMB52.149 billion, and the social contribution value per share was RMB3.93, including RMB17.988 billion in taxes and fees paid.

### *Promoting local employment*

China Coal Energy has always insisted on the employment models which include open recruitment and labor dispatching to actively create and offer job opportunities in the places where its business operations are performed.

Implementing relevant local policies, China Coal Shaanxi Company gives priority to introducing local talent as regular employees to promote the local employment in Shaanxi Province and Yulin City. At present, more than 50% of the Company's registered employees are from Shaanxi Province. Shaanxi Company also works together with local employment agencies, many externally commissioned operations, repair and maintenance teams, giving priority to local labor. More than half of the workers are local workers. China Coal Mengda Company adheres to the principle of "localization" of employment and gives priority to local registered talents. It has successively won the honorary titles of "Advanced Enterprise for Promoting Local Employment in 2018", "Advanced Enterprise for Supporting Social Security and Employment Work in 2020" and "Advanced Enterprise for Supporting Employment and Social Security Work in 2021" from the People's Government of Wushenqi and the Human Resources and Social Security Bureau of Wushenqi. At present, 46% of the Company's registered employees are from Inner Mongolia, and over 60% of recruited workers are from Inner Mongolia.

### *Strengthening local purchases*

Adhering to mutually beneficial development, China Coal Energy strengthens the cooperation with local authorities and drives the development of local industries such as transportation and service industry, making contribution to the local economic development and social stability. For the tender purchasing of the bulk materials and supplies, local enterprises and products would be preferred under the circumstance of same quality and price. In 2021, the total amount of purchasing contracts of China Coal Shaanxi Company was RMB4.186 billion. The local purchasing amount was RMB3.914 billion, accounting for 94.03%. In 2021, the total amount of purchasing contracts of China Coal Ordos Energy Chemical Company was RMB4.463 billion. The local purchasing amount was RMB3.923 billion, accounting for 87.90%.

### *Supporting construction of local economy*

In accordance with the requirements of the national economic development policy, industrial policy and regional planning, China Coal Energy actively supports economic and social development of the places where it operates by making use of its own business advantages and focusing on the needs of the local people's livelihood.

China Coal Shaanxi Company solidly and quickly promotes project construction in accordance with the standards of building a world-class energy and chemical company. It constructed Phase I of the project of producing coal-based methanol to alkene of 1.2 million tonnes/year (methanol of 2.05 million tonnes/year and polyolefins of 600,000 tonnes/year), provided corresponding chemicals for the construction project of coal mine and coal preparation plant of Dahaize. In addition, it cooperated with Yan'an Checun Coal to construct the Hecaogou Coal Mine and coal preparation plant, and participated in the construction of Jingshen Railway and Wanggedu Reservoir. As at the end of 2021, the Company had invested RMB39.149 billion on a cumulative basis.

### *Building harmonious communities*

China Coal Energy has always been focusing on the impact of its enterprise development on the surrounding community and insists on achieving mutually beneficial results for the enterprise and the locality and building a harmonious community.

Pingshuo Community is the only residential area in the ancillary construction of Pingshuo Group. Pingshuo Group followed the requirements of "high starting point, high standards and high quality" since the early stages of planning for the Pingshuo Community, which was built separately from the mining area in order to be liveable for employees and their families. To establish the Pingshuo Community as a first-class mining community in China, the Pingshuo Group followed the requirements of the *Guidance on the Construction of Harmonious Communities in the National Coal Industry* by regularly conducting specific studies on community planning and cultural development and formulating working plans. Special funds for community development were raised and investment in infrastructure was increased to implement a series of measures for people's benefit and to ensure rapid community development. In recent years, Pingshuo Community has been awarded the title of "Civilized and Harmonious Community" by Shanxi Province, and ranked among the first batch of "Model Areas of Harmonious Community Development in the National Coal Industry" and "Safe Communities in China".





## Partaking in Social Welfare Activities

### Participating in social aid

China Coal Energy gives full play to the professional advantages of mine emergency rescue centers, makes efforts to improve its emergency rescue capacity and actively participates in local mine rescue work, emergency rescue and disaster relief. Thus, the Company plays an important role in guaranteeing life and property safety of the general public.

In July 2021, Henan Province experienced extreme heavy rainfall with severe flood. In times of crisis, the National Hazardous Chemicals Emergency Rescue China Coal Yulin Team urgently sent 29 members and 5 rescue vehicles to Henan for the front-line rescue and disaster relief, making positive contributions to flood prevention and disaster relief.



The National Hazardous Chemicals Emergency Rescue China Coal Yulin Team

In October 2021, several areas in Shanxi Province were hit by extreme severe precipitation. Enterprises of China Coal Energy in Shanxi Province responded promptly and actively participated in rescue and disaster relief, protecting the lives and property safety of the people. China Coal Huajin Group organized a mine emergency rescue team and more than 70 employees of Wangjialing Mine formed a rescue team. They were coordinated to prepare rescue equipment and materials, and rushed to dams of Fen River for flood prevention and rescue, which contributed China Coal's strength to the safety protection of the area.

### Supporting social welfare

China Coal Energy actively participates in social benefit undertakings. With a donation management system in place, the Company selects public welfare projects following the principle of "willingness, clear responsibilities, actions based on ability, and credibility" and in accordance with the Company's annual business performance. China Coal Energy helps and supports poverty-stricken people through the donation of money and goods, and advocates cultural and recreational undertakings, serving the society wholeheartedly.

### Providing volunteer service

China Coal Energy is concerned about public welfare. The Company supports and encourages employees to participate in various kinds of volunteer service activities. The Company often carries out caring activities such as "Conveying True Love, Giving Warmth, Showing Love, One Helping One and Partner Assistance" to send care and warmth to local households in difficulties, senior citizens and other people in need, transferring positive energy to the society.

"Qingshuo" Volunteer Association of China Coal Pingshuo Group has 1,694 volunteers registered at "Volunteer China" website, and organized hundreds of "Learn from Lei Feng" community volunteer services and "contributing my youth to fight against the pandemic (青春有我 并肩战疫)" and other caring volunteer services. In 2021, 1,321.2 hours of volunteer service times were provided, and the association was awarded the top ten group title of the 9th "National Coal Youth May 4th Medal" by the Work Guidance and Promotion Committee of the Communist Youth League of the National Coal Industry.



"Qingshuo" volunteers of China Coal Pingshuo Group

## Performance in Community Responsibility

Name of indicator	2019	2020	2021
Tax paid (RMB100 million)	137.53	128.52	<b>179.88</b>
Donations and poverty alleviations (RMB10,000)	1,750	1,890	<b>2,599</b>
Total social contribution (RMB100 million)	358.43	354.37	<b>521.49</b>
Social contribution per share (RMB)	2.70	2.67	<b>3.93</b>



## Outlook 2022

2022 is an important year for the implementation of the “14th Five-Year” plan and a year for the deepening of unswerving promotion of high-quality development. Under the guidance of Xi Jinping’s Thought on Socialism with Chinese Characteristics for a New Era, the Company will adhere to the general principle of “prioritising stability, making progress amid stability”, uphold the development concept of “efficiency enhancement and incremental transformation”, while coordinating and pushing forward with the tasks of ensuring safety, stabilizing growth, adjusting structure, focusing on reform, facilitating innovation, improving benefits, and preventing risks, and shall spare no effort to promote the high-quality development of the Company.

The Company will stabilize its production, increase sales and strive to improve quality and efficiency. Coal enterprises will strive to stabilise production and supply under the premise of ensuring safety. By accelerating the upgrade of coal mining technology and equipment and intelligent construction, the levels of unit output and unit input are effectively improved. The Company will actively adapt to market changes, fully implement the new policy of “two comprehensive coverage” contracts, and strive to stabilize the coal sales scale and market share. Coal chemical enterprises shall consider the relationship between production and maintenance as a whole, strengthen operation management, maintain the safety and stability of equipment, and realize the long-term, safe and stable operation of chemical production. We will strengthen market research and judgment, timely adjust sales strategies, and strive to improve the marketing level of chemical products. In accordance with the development direction of “efficiency enhancement and incremental transformation”, the productivity level of existing business will be improved through potential exploring, innovation and transformation. Incremental business will be principally engaged in the Company’s industrial layout, and fully utilise the existing resources to carry out project planning, strengthen the construction of key projects, and promote green and low-carbon development in an orderly manner.

The Company will strengthen safety standards with a comprehensive approach. We will firmly establish the concept of safe development, carry forward the idea of life first and safety first, focus on strengthening major safety risk management and control, treat both the symptoms and the root causes, pay attention to the root causes, and enhance intrinsic safety ability. We will eradicate major disasters, minimize minor casualty accidents and pursue “zero mortality”, so as to ensure continuously stable safe production for the Company.

The Company will protect the environment and insist on green development. We will thoroughly implement the overall deployment of the national ecological civilization construction, practice the concept of green development, and actively promote the green development and clean and efficient use of coal. We will further promote energy conservation and consumption reduction, continue to promote pollution control and emission reduction, strengthen mine ecological restoration and management, and strive to build a “resource conservation and environment-friendly” enterprise.

The Company will pursue growth through innovation and stimulate development vitality. We will firmly implement the innovation-driven development strategy, focus on technological innovation as the core of the overall development of the Company, give full play to the advantages of the entire coal industry chain, deepen industry-academic collaborations, strengthen the key role of corporate for innovation, stimulate corporate’s innovation and creation potential, strengthen technological research and development, and promote industrial digital transformation and upgrade.

The Company will embrace people-oriented principles and safeguard employees’ legitimate rights and interests. Sticking to its culture construction, China Coal Energy has built harmonious labour relations and safeguarded the rights and interests of its employees. We will continue to care for the health and life of employees, improve the quality of life and working environment of employees, and enhance their sense of achievement, happiness and security. We will also pay attention to the cultivation of employees’ ability and make full efforts to create a development platform for our employees to achieve the common growth of employees and the Company.

The Company will contribute to the society and strive for win-win situation. The Company will adhere to the notion that one who prospers should give back to society. While seeking our own growth, we will continue to support the economic and social development in locality so that a harmonious and win-win situation can be attained. The Company will continue to support public welfare undertakings, consolidate the effective connection between the achievements of poverty alleviation and rural revitalization, and fulfil its corporate social responsibility in order to become a good corporate citizen.

China Coal Energy will be steadfast in fulfilling its corporate mission of “providing quality energy and leading the industrial development for a prosperous life”. The Company will integrate the concept of ESG and sustainable operation into its development strategy and daily operations, thereby enhancing its ability to create overall economic, social and environmental value, achieving harmonious development with its stakeholders, and striving to achieve the goal of building a world-class energy enterprise with global competitiveness.





**中国中煤能源股份有限公司**  
CHINA COAL ENERGY COMPANY LIMITED

中煤能源欢迎您对报告提出建议和意见

请联系我们

公司名称：中国中煤能源股份有限公司

总部地址：北京市朝阳区黄寺大街1号

邮政编码：100120

联系电话：(010) 82256293

传真电话：(010) 82236454

电子邮箱：csr@chinacoal.com

公司网站：www.chinacoalenergy.com

China Coal Energy welcomes your suggestions and opinions on this report

Please contact us

Company's name: China Coal Energy Company Limited

Address of Head Office: No. 1, Huangsidajie, Chaoyang District, Beijing, China

Postal code: 100120

Telephone number: (010) 82256293

Fax number: (010) 82236454

Email address: csr@chinacoal.com

Company's website: www.chinacoalenergy.com