

China National Building Material Group Co.,Ltd.



Report Norms

This Report is the fifteenth sustainability report issued by China National Building Material Group Co., Ltd. (CNBM), truly reflecting CNBM's pursuit of sustainable development and fulfillment of social responsibilities.

Entities Covered by the Report

CNBM and its wholly-owned and controlled (including absolutely controlled and relatively controlled) member enterprises. For brevity, the terms "CNBM", the "Group" and "we" are used in the Report to refer to China National Building Material Group Co., Ltd. (unless otherwise specified in the text).

Period Covered by the Report

January 1st to December 31st, 2023. Some of the content goes beyond the above period.

Reporting Cycle

This Report is an annual report.

Quality Assurance

expressed in RMB.

Data Sources

We strive to ensure the authenticity, integrity and balance of the contents of the Report, and make breakthroughs in innovation and readability. There are no false records, misleading statements or major omissions in this Report.

The information and data used herein come from the

Headquarters and member enterprises of CNBM. Notes have

been made in the Report to indicate information from external

references. Unless otherwise stated, all monetary amounts are

Basis for Preparation

2030 Agenda for Sustainable Development Goals (SDGs) issued by the United Nations

Standards for Sustainable Development Reporting (GRI Standards) of the Global Reporting Initiative (GRI)

ISO 26000 Guidance on Social Responsibility (2010) issued by the International Standard Organization

Guidance on Social Responsibility Reporting issued by the Standardization Administration of China (GB/T36001-2015)

Guiding Opinions on the Implementation of Social Responsibility by Central Enterprises with High Standards in the New Era issued by the State-owned Assets Supervision and Administration Commission of the State Council

Corporate Social Responsibility Reports in China for Nonmetal Mineral Products (CASS-CSR 4.0) issued by the Research Center for Corporate Social Responsibility, Chinese Academy of Social Sciences

Report Availability

This Report is available in printed and electronic versions, and is mainly released to stakeholders and the public in the form of a PDF electronic document. You can request the printed version via the contact information on the back cover or log onto www.cnbm. com.cn to download the electronic version.









2011













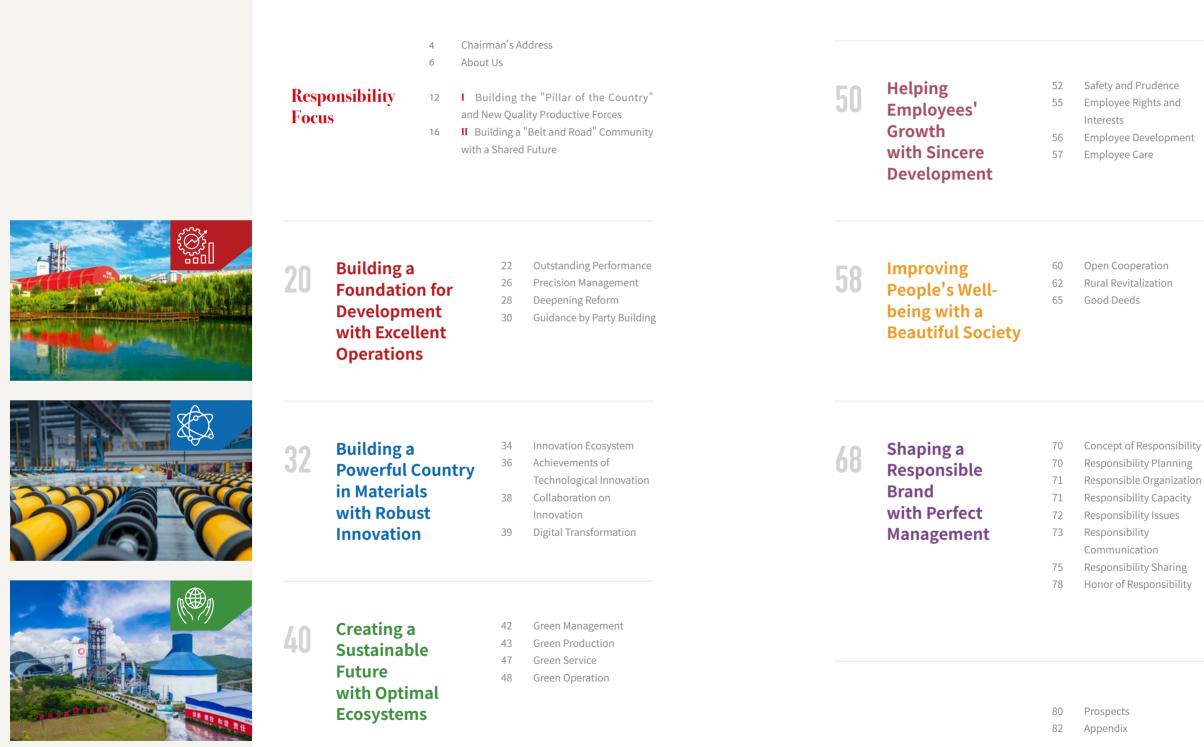












Contents







Chairman's Address



Building the "Pillar of the Country" and Answering the "Question of Development" Development always unfolds a magnificent canvas in the face of problems.

High-quality development is the distinct theme of China's economic development in the new era. "We must uphold highquality development as the top priority of the new era," the resolute words of General Secretary Xi Jinping are a profound summary of historical development laws and a clear indication of creating a new chapter of development on the new journey. By basing itself on the trends of the times, CNBM answers the question of development. We have firmly upheld the development mission of "creating a better world with materials" and unwaveringly implemented the major deployment of the CPC Central Committee and the State Council. We have accurately identified, scientifically responded to and actively sought changes. We have steadily advanced forward in the face of difficulties, accumulated momentum in climbing over hurdles, and taken more solid, powerful, vibrant and confident steps toward high-quality development.

By tempering unshakable determination, we answer the question of direction.

In the face of the changing times, we have accurately identified, scientifically responded to and actively sought changes. We have strengthened strategic leadership, consolidated the strategic loop, and maintained strategic initiative in the changing situation to secure high-quality development. We have improved the 14th Five-Year Plan in keeping with the times, completed the midterm evaluation and adjustment of the 14th Five-Year Plan, and promoted the integration of digitalization, internationalization and green development. We have drawn up the "1254" digital development blueprint, and comprehensively promoted the construction of digital infrastructure and "quick-win projects"; we have launched the strategy of "Overseas Reconstruction in the Next Decade", and implemented the "12345" strategic framework at an accelerated pace; we have helped achieve the "dual carbon" goals through full-life-cycle green development, built the world's largest carbon capture project in the building materials industry, and conducted the largest-scale carbon trading among central enterprises. Our positioning as a manufacturer of non-metallic materials and a capital investor is being further strengthened, and we are continuously exploring new models for a state-owned capital investment company in the materials industry.

By forging steadfast perseverance, we answer the question of operations.

In the face of changes in the industry, we have focused on the "three major roles" of technological innovation, industrial control and safety support, committed to making efforts in both traditional industries and strategic emerging industries. We have accelerated the deployment of strategic emerging industries and futureoriented industries, and built advantageous industrial clusters with core competitiveness. In 2023, the Group's New Materials Fund was selected as one of the top 30 investment institutions in the field of new energy/new materials in China in 2023; the revenue of the new materials sector broke the mark of RMB 100 billion again; infrastructure materials became high-end, intelligent and green, and their position as "ballast stone" was consolidated; the pace and quality of industrial transformation and upgrading accelerated. We have constantly consolidated the foundation of "stability" and accumulated the power of "progress" to comprehensively build a modern industrial system.

By honing the courage to embrace change, we answer the question of practice.

In the face of changes in competition, we have taken a multipronged approach to advance the new industrialization process and vigorously developed new quality productive forces. We have demonstrated our sense of responsibility and commitment by implementing national strategic initiatives and serving the new development pattern. We have adhered to the "Four Aspects" and made new breakthroughs in building the source of original technologies, with fruitful results achieved in the first phase of the "open competition mechanism" project. In 2023, the Group undertook a new batch of national key research tasks and R&D plans, made breakthroughs in several "bottleneck" technologies such as low-carbon cement, large aircraft carbon fiber composites, high-level radioactive waste liquid glass curing refractory materials, and 10,000-ton lithium battery negative electrode material rotary furnaces. Many new materials have successfully been applied to advanced equipment of the country such as Shenzhou and Kuaizhou. The Group has united its efforts to build the "Pillar of the Country", making new contributions to building a powerful country in materials

By cultivating the ability to seek truth, we answer the questions of faith.

In the face of changes in the environment, we have solidified the ideological foundation of the "Top Priorities of the Country", and have stimulated our drive for progress in in-depth study, careful comprehension, and sincere practice. We have forged the mainstay of high-quality development with high-quality Party building. Holding the flag and forging ahead, we have implemented the reform deepening and upgrading action with high quality and a high starting point. We have been rated as "A" in the reform assessment conducted by the State-owned Assets Supervision and Administration Commission (SASAC) of the State Council for three consecutive years. We have made solid progress in the action of world-class "demonstration centers for business startups and innovation". The Group was selected as a model enterprise for creating world-class enterprises; China Jushi and Zhongfu Shenying were selected as model enterprises for creating world-class professional leading enterprises. We have accelerated the implementation of value creation actions, enriched the new connotation of precision management, implemented comprehensive budget management, strengthened "big compliance" management, effectively consolidated the closed-loop system of the Group's steady development, and built a dynamic modern new state-owned enterprise.

By building strength to weather the storm, we answer the question of responsibility.

In the face of changing responsibilities, we always bear in mind the well-being of the world and remain enterprising. We continued to be exemplary leaders who dare to think, act, and succeed. At home, we have worked together to actively serve the Asian Games Hangzhou, supported rural revitalization, assist in flood control and disaster relief, and donated RMB 10 million to support the frontline of earthquake relief efforts in Gansu, shouldering our responsibilities as a central enterprise. Abroad, we have firmly adhered to the "three principles" of contributing to local development, cooperating with local enterprises, and serving local residents; we have accelerated our global industrial layout and resource allocation with highquality building materials, advanced technologies, and mature experience. We have built and operated over 100 projects in dozens of countries, leaving our footprints all over the world, and actively building an ecosystem of harmonious development with the environment, society, and upstream and downstream sectors of the industry

In the boundless expanse of the sea, we set sail with the wind as our guide. 2024 marks the 75th anniversary of the founding of the People's Republic of China, and it is a crucial year for achieving the goals and tasks of the 14th Five-Year Plan, as well as a year when CNBM will accelerate the cultivation of new quality productive forces and build new industrial pillars. Guided by the Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we will continue to focus on the top priority and primary task of high-quality development, improve the "five values", fully leverage our role as the national team and the main force in the non-metallic materials industry, bear in mind the "Top Priorities of the Country", create the "Pillar of the Country", accelerate the construction of a modern industrial system, enhance core functions, improve core competitiveness, and move steadily on the path of high-quality development!

Party Committee Secretary and Chairman

Zhou Yuxian

About Us

Company Profile

China National Building Material Group Co., Ltd. ("CNBM") is a central enterprise directly managed by the State-owned Assets Supervision and Administration Commission of the State Council. It is the world's largest comprehensive building materials group, and a worldleading new materials developer and integrated service provider. It has been listed on the Fortune Global 500 for 14 consecutive years, and ranked 307th in 2024. As of 2023 As of the end of 2023, CNBM's total assets amounted

As of the end of 2023,

Total assets













Scan the QR code to learn about CNBM

total number of employees of 208,000. CNBM holds 13 listed companies, two of which are abroad. The Group is the largest supplier of cement, ready-mixed concrete, plasterboards, fiberglass, wind turbine blades, cement & glass and engineering technical services. It is also one of the leading producers of many new materials, such as ultrathin electronic glass, high-performance carbon fibers, lithium battery separators and ultra-high voltage

electrical porcelain.

to RMB 705.09 billion, with annual

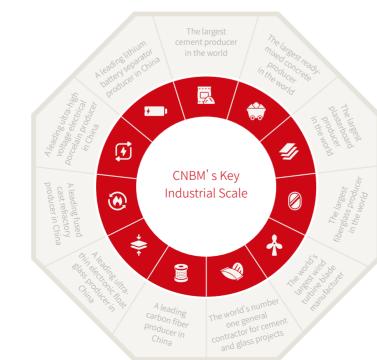
revenue of RMB 347.51 billion, and a

As a scientific and technological group, CNBM possesses the strongest strength in building materials and new inorganic nonmetallic new materials in China. CNBM takes possession of 38,000 scientific researchers and engineering technicians, 26 national-level scientific research and design institutes, 26,500 valid patents, 55 national and industrial quality inspection centers and the most authoritative inspection and certification bodies in the industry, 3 national key laboratories, 8 national engineering (technical) research centers, 18 national enterprise technology centers, 21 individual champions in manufacturing industry, 19 national standardization technical

committees, 166 prizes of National Science and Technology Awards and 4 prizes of China Grand Awards for Industry.

As an international company, CNBM has been at the forefront of "going global" and the Belt and Road Initiative of the Chinese building material industry. It holds a 65% share in the international market of cement and glass engineering projects, and has invested in Germany, India, Mongolia and African countries, moving towards the center of the world's stage of building materials.

CNBM has been officially converted into a state-owned capital investment company. Currently, it is speeding up the "three major changes" from enterprise management to capital management, from building materials to comprehensive materials, and from the local market to the global stage according to the "4335" guiding principles. We work to continuously enhance our competitiveness, innovation capacity, power of control, influence and risk resistance and develop into a world-class industrial investment group specializing in the material industry with global competitiveness.



Corporate Culture

With its profound cultural deposits and high sense of responsibility as a stateowned enterprise. CNBM has created a unique cultural system, paving a road to strengthen enterprises by culture. In the process of development, adhering to the corporate mission of "creating a better world with materials", we have created the concept of "keeping the 'top priorities of the country' and building the 'pillar of the country'" and "smart use of resources, services for construction". We have formed the "4335" guiding principles, the core values of "innovation, performance, harmony and responsibility", the standard of conduct of "being reverent, grateful, humble and appropriate", and other value concept systems with CNBM characteristics.

Corporate vision

Build a world-class

Development Strategy

CNBM adheres to high-quality development driven by innovation, empowered by reform, facilitated by internationalization and guided by Party building, committed to building a world-class industrial investment group specializing in the material industry with global competitiveness.

Values

responsibility

ndustrial investment group specializing in the material industry with global

Service path

Basic building materials, new materials, and engineering & technical service

Concept

Keeping the "top priorities of the country" in mind Building the "pillar of the country" Smart use of resources, services for construction

Corporate mission

Creating a better world with materials

Code of conduct

Guiding principles

"4335" guiding principles

Management principles

Cultural environ

and life: employees and enterprises grow together Alignment and

By 2025

The Group will achieve a total profit of RMB 40 billion and a net profit of RMB 30 billion.

By 2035

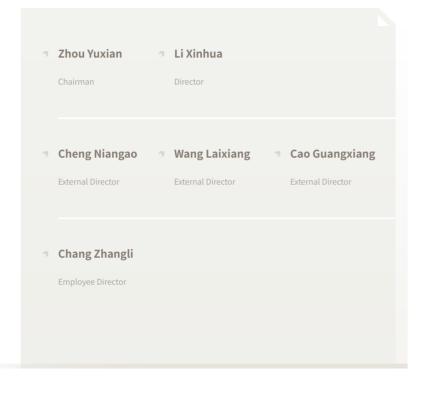
By 2025

The Group will achieve a net profit of over RMB 100 billion, building itself into a world-class, respected and great

Management Team

According to the Company Law, the requirements for standard operation of the Board of Directors, the needs of the work and the expertise of external directors, the Board of Directors has 4 special committees, of which the Remuneration and Appraisal Committee and Audit and Risk (Supervision) Management Committee consist solely of external directors.

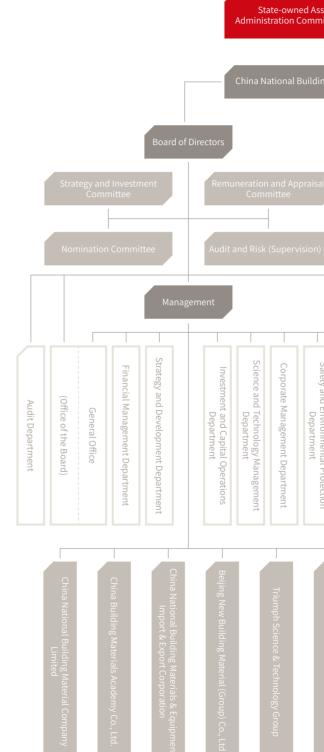
Board of Directors



Management

 Zhou Yuxian 	🤊 Li Xinhua	Chang Zhangli 7	Yang Jie	Wang Yumeng
Party Secretary Chairman	Party Committee Deputy Secretary Director General Manager	Party Committee Deputy Secretary	Party Committee Standing Committee Secretary of Discipline Inspection Commission	Party Committee Standing Committee Deputy General Manager
Wei Rushan	🤊 Qu Xiaoli	Deng Changqing	Zhi Xiao	
Party Committee Standing Committee Deputy General Manager	Party Committee Standing Committee Deputy General Manager	Party Committee Standing Committee Chief Accountant	General Manager Assistant	

Governance Structure



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isal	mmittee									
			Trade Ur	nion				oline In: ommis	spectio sion	n
Safety and Environmental Protection	· Legal Affairs & Compliance Department	- Human Resources Department	Organization Department of Party Committee	Party-Masses Relations Department	(General Office of Party Committee)	- Publicity Department of Party Committee	Circuit Office of Party Committee	Case Handling Office of Discipline Inspection Commission	Supervision & Enforcement Office of Discipline Inspection Commission	General Office of Discipline Inspection Commission
CNBM Assets Operation Corporation		CNBM United Investment Co., Ltd.		China National Geological Exploration Center of Building Materials Industry	Finance Co., Etd.	China National Building Material Group	Sinoma Energy Conservation Limited		China National Materials Industry Import & Export Corporation	

Main Lines of Business

Basic Building Materials



Cement, Cement +

The production scale of cement and commercial concrete ranks first in the world, with 334 new dry process cement production lines, cement capacity of over 500 million tons and commercial concrete capacity of about 440 million cubic meters. As the standard configuration for the city, 53 cement kiln cooperative disposal production lines have been put into operation and under construction. The total annual disposal scale is 5.42 million tons, and the landfills are reduced by 1,355 mu. The installed capacity of waste heat power generation of cement sheeting is about 2000 MW.

Key enterprises

Ltd., and Ningxia Building Materials Group Co., Ltd.



Key enterprises China Jushi Co., Ltd., and Taishan Fiberglass Inc.

New Materials

Lightweight building materials

The plasterboard production capacity is 3.5 billion square meters, ranking first in the world. There are 92 production bases globally. It has 4,852 valid patents. The business scale of waterproof materials ranks among the top three in the industry. It has 15 waterproof material production bases. 74 waterproof membrane production lines and 34 waterproof coating production lines. We develop the business of "plasterboard+" supporting systems, and serve national key projects such as the Great Hall of the People, the Olympic Games and the Winter Olympics. We promote the global original "Luban" universal board whole house assembly system, and actively develop waterproof materials and coatings that can be installed and brushed immediately and allow immediate occupancy, creating a low-carbon, environmentfriendly and healthy indoor environment. Taking plasterboards as the leading product, we have gradually developed the global layout of the whole product lines.

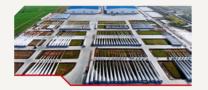
Kev enterprises

Beijing New Building Material Public Limited Company, Taishan Gypsum Co., Ltd., and BNBM Waterproofing Co., Ltd.



Fiberglass

The production capacity exceeds 3.7 million tons, ranking first in the world; the global market share exceeds 40%. Nine production bases have been built, covering China, Egypt, the United States and other places. We have the oxygen-combustion large pool kiln wiredrawing intelligent production technology and equipment with fully independent intellectual property rights. We have built the first zero-carbon intelligent manufacturing base, developed more than 3,000 specifications and varieties in over 20 categories such as high-mode high-strength fiberglass, and low dielectric fiberglass, which are applied to highend equipment, new energy, 5G communication and ocean engineering. The products are sold to more than 100 countries and regions around the world and have won the "China Grand Awards" for Industry" and "China Patent Gold Award".



Wind Turbine Blade

We are the world's largest wind turbine blade design, research and development, manufacturing and service provider, with a production capacity of about 30GW. Our products cover the mainstream unit platforms from 1MW to 16MW+. The "SinomaBlade" brand has been firmly established in the industry. The market share in China exceeds 30% Globally cumulative installed capacity is 153GW. The products operate stably in 42 countries including China, Austria, Pakistan, Chile and Brazil. In 2023, we developed the longest 130 m 12 MW carbon fiber girder composite blade and the longest 101 m 6-8 MW all-fiberglass onshore blade in China.

Key enterprises

Sinoma Wind Power Blade Co., Ltd.,and Lianyungang Zhongfu Lianzhong Composites

High-quality Float Glass

Our production capacity ranks among the top five in China, and we have a second-generation float glass intelligent demonstration line with fully independent intellectual property rights. The products include body-colored glass, Low-E coated glass, insulated glass, vacuum glass, and smart light-control glass, which are applied in various fields such as architecture, automobiles, household appliances, photovoltaic, and mirror manufacturing, and are sold to nearly 100 countries and regions in Southeast Asia, Europe, and South America.

Key enterprises

Triumph Science & Technology Group



Carbon Fiber

Driven by domestic independent technological innovation, we build a carbon fiber business segment, with a production capacity of 58,500 tons (28,500 tons completed). The domestic market share of high-performance carbon fibers of T700 level and above has exceeded 50% for consecutive years. It is widely used in fields such as aerospace, new energy industries, and major infrastructure projects. It has won the "First Prize of National Science and Technology Progress" and "Top Ten Super Projects of Central Enterprises"

Key enterprises

Zhongfu Shenying Carbon Fiber Co., Ltd.



New Glass Materials

We have achieved a series of industrialization achievements that are "the first in China and the best in the world". We have independently built the world's largest single-unit oxygenfuel combustion photovoltaic glass production line, and the first thin and high-transmittance photovoltaic glass intelligent production line in China. We have successfully rolled out the world's first large-area cadmium telluride power glass. The photoelectric conversion rate of copper indium gallium selenium power glass has set a new world record. The world's largest single-unit thin film BIPV application demonstration project has been built and applied in multiple scenarios. We have independently developed China's first neutral borosilicate pharmaceutical glass tubes for vaccines and achieved stable mass production. We have completed the layout of high-end platforms such as the only national new glass material innovation center in the industry, and achieved a stable market share of over 90% in the global high-end glass engineering.

Key enterprises

Triumph Science & Technology Group





Lithium Battery Separator

We are the high-tech enterprise in the industry that takes the lead in simultaneously having the wet synchronous and asynchronous stretching processes for high-performance lithium battery separators. The existing production capacity exceeds 4 billion square meters, and the underconstruction production capacity exceeds 2 billion square meters. We have laid out seven production bases and one equipment manufacturing base across the country. The products cover 3-12 µm wet separator and various coated separator products, which are used in new energy vehicle power batteries, 3C consumer batteries, energy storage batteries and other fields. The development rate among the top ten global battery customers reaches 90%.

Key enterprises

Advanced Ceramics and Artificial Crystals

As one of the first units engaged in the research of advanced ceramic materials in China, we focus on the R&D of key generic technologies in the industry and the transformation of scientific and technological achievements. We have incubated such industries as silicon carbide ceramics, silicon nitride ceramics, alumina ceramics, ultra-high voltage electric porcelain ceramic membrane quartz ceramics and foamed ceramics, making important contributions to China's strategic emerging industries such as high-end equipment, new materials, new energy, energy conservation and environmental protection. We have reached the international or domestic leading level in nonlinear optical crystals, infrared optical window materials, micro- and nanocrystalline materials, piezoelectric crystals, thirdgeneration semiconductor crystals, and functional diamond crystals. Our products are widely used in high-tech fields such as lasers, optoelectronics, communication, and aerospace, playing a crucial "core" role in many national major projects and the development of strategic emerging industries.

Engineering and Technical Services



Engineering and Technical Services

With nearly 500 cement and glass engineering projects built at a high level in the world, we are the largest Chinese-funded photovoltaic EPC general contractor in Europe, one of the few enterprises with complete industrial chain in the international cement technology and equipment engineering market, and the largest cement technology and equipment engineering system integration service provider in the world.

Key enterprises

China Sinoma International Engineering Co., Ltd., China Triumph International Engineering Co., Ltd., Sinoma Energy Conservation Limited, Hefei Cement Research & Design Institute Co., Ltd., and Qinhuangdao Glass Industry Research and Design Institute Co., Ltd.



Key enterprises Sinoma Advanced Materials Co., Ltd.

Responsibility Focus

Building the "Pillar of the Country" and New Quality Productive Forces

Developing new quality productive forces is the inherent requirement and important focus for promoting high-quality development.

Moving towards innovation, scientific and technological innovation ignites the engine of high-quality development

Accelerating the development of new quality productive forces is the strategic planning made by General Secretary Xi Jinping from a new historical starting point to promote highquality economic development. As a leading enterprise in the building materials industry among the Fortune Global 500, CNBM focuses on accelerating the formation of new quality productive forces and actively leverages the innovation strength of 26 national-level research and design institutes, 3 national-level key laboratories, and 8 national-level engineering (technology) research centers.

We support the formation of a new material industrial system with a hierarchical layout of RMB 1 billion-RMB 5 billion-RMB 10 billion. We improve our core competitiveness through technological innovation, enhance our core functions through industrial innovation, and give better play to the role of technological innovation, industrial control and safety support. We help build a modern industrial system that is integrated, advanced and safe. We give full play to the role of state-owned capital investment companies, and continuously enhance our core competitiveness and core functions, providing vivid samples for exploring the future path of new quality productive forces.



Stronger scientific and technological innovation capacity

New breakthroughs were made in the construction of the source of original technologies; six national key R&D plans were undertaken; seven projects in the second phase of the "1025" project were carried out on schedule; the first phase of the Group's "open competition mechanism" project was evaluated and the second phase was launched. A 25,000-ton highperformance carbon fiber production base with the largest single capacity in the world was built; a number of original R&D results, such as T1,100 carbon fiber and 70MPa hydrogen storage cylinders, were transformed into demonstration projects.



The thirty two 320L hydrogen cylinders independently developed by Sinoma Science & Technology (Suzhou) Co., Ltd. and certified by the classification society, were applied to the "Three Gorges Hydrogen Boat No. 1", the first 500 kW hydrogen fuel cell-powered workboat in China to be classified by the China Classification Society (CCS). And this workboat was successfully launched.



In order to further strengthen the coordinated layout of the industry chain in the investment project, actively build an innovation ecosystem for the new material industry, and promote the high-quality development of the new material industry, On April 22, 2023, the "CNBM New Materials Fund Industry Partner Conference and New Materials Industry Investment Salon" with the theme of "New Era · New Materials · New Opportunities" was successfully held at CNBM. Zhou Yuxian, Secretary of the Party Committee and President of the Group, delivered a speech.

We have completed the restructuring and integration of Qilianshan Cement, wind turbine blades, equipment manufacturing, coatings and other businesses; New Materials Fund was selected as one of the top 30 investment institutions in the field of new energy/new materials in China in 2023, and raised a total of RMB 6 to 8 billion of capital for the Group.



Stronger industrial control capacity



Stronger safety support capacity



The annual revenue of special new materials exceeded RMB 2.4 billion; breakthroughs were made in numerous "bottleneck" technologies such as lowcarbon cement, large aircraft carbon fiber composites, and high-level radioactive waste liquid glass curing materials. Nearly RMB 3 billion was invested in "the pain points of central enterprises", such as the integrated circuit and semiconductor industries.

On April 8, 2023, the commencement ceremony of Zhongfu Shenying's 30,000 tons/year high-performance carbon fiber project was held in Lianyungang, Jiangsu Province. This project is another significant move by CNBM to further deepen and implement the domestic economic circulation strategy after the "super project" of 10,000-ton carbon fiber in Xining was completed and put into operation. As the world's largest single carbon fiber production base, this project will make full use of nuclear steam and photovoltaic power to achieve the green and low-carbon transformation of energy in the carbon fiber production process. Meanwhile, it will adopt the most advanced carbon fiber industrialization technology of version 4.0 in China for the design of the new base. After the new base is completed and put into operation, it will further enhance the large-scale application of domestic high-performance carbon fiber products in fields such as aerospace and new energy. While promoting the integration of the innovation chain and the industry chain, it will also contribute to building China into a leading country in manufacturing, product quality and materials.



Sustainability Report 2023 13

Making efforts in both traditional industries and strategic emerging industries, empowering the modern industrial system of new building materials with new quality productive forces

The report of the 20th CPC National Congress proposed for the first time to accelerate the construction of a modern industrial system and place the focus of economic development on the real economy. The materials industry is the foundation of the real economy and occupies a fundamental position in the modern industrial system, serving as the basis for the development of the national economy.

As the only central enterprise in the building materials industry, CNBM has adhered to driving industrial innovation through technological innovation and made efforts in both basic building materials and strategic emerging industries.

The Group has accelerated the transformation and upgrading of traditional industries while speeding up the deployment of strategic emerging industries. It has accelerated the deployment of new fields and new tracks for value creation, focused on the proactive deployment of future-oriented industries, actively acted as the "vanguard" of building the modern industrial system, consolidated the modern industrial system supported by the real economy, created advantageous industrial clusters with core competitiveness, fostered new drivers and advantages for development and strived to build world-class enterprises.



Transformation and Upgrading of Basic Building Materials

The basic building materials industry is an important part of China's real economy and the "anchor" business that occupies a major part of CNBM's business layout. Standing at the strategic height of high-quality development in the industry, the Group has actively promoted high-end, intelligent and green development, accelerated the transformation and upgrading of the basic building materials industry, consolidated its leading position in traditional robust industries, and firmly grasped the initiative of high-quality development, better serving the new development pattern.

Jpgrading

Expanding profit margins by leveraging "Cement +", expanding market space by going global, expanding sustainable development space through the "dual carbon" goals, and enhancing crosscycle management capabilities.

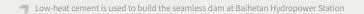
Accelerating high-end, intelligent and green development and consolidating the leading position through continuous innovation

Develop strategic emerging industries and future-oriented industries

oriented industries lavout.

Unprecedented strategic emerging industries and future industrial layout

- The Huai'an zero-carbon intelligent manufacturing base of China Jushi and the Taiyuan base of Taishan Fiberglass commenced construction
- The production capacity at Zhongfu Shenying's Xining base phase II doubled. The Lianyungang commenced construction.
- The Nanjing, Pingxiang and Yibin bases of Sinoma Lithium Battery Separator achieved sales ahead of schedule.
- The Inner Mongolia Phase II and Tengzhou Phase II of Sinoma Lithium Battery Separator were put into operation.
- The Yiwu, Yulin and Yangjiang bases of Sinoma Wind Power Blade Co., Ltd. had a production capacity of 3.14GW.
- Triumph Science & Technology acquired three power glass production lines in Handan, Jiamusi and Zhuzhou through equity
- financing of RMB 950 million.
- The construction of Qinhuangdao and Luoyang photovoltaic glass base was accelerated.
- The Photonic Material Industrial Park of China Building Materials Academy was completed and put into operation.
- Sinoma Advanced Materials produced 180 tons of silicon nitride bearing balls and 700,000 high-thermal-conductivity substrates per vear.



By actively leveraging its role as a state-owned capital investment company, CNBM has continuously enhanced its supportive and stabilizing capabilities in key areas such as new materials and new energy, and combined its "9+6" systematic layout to complete the mid-term assessment and adjustment of the "14th Five Year Plan" development strategy and draft a work plan for its new and futureoriented industries. It has allocated 16 tasks in four major areas of new materials, new energy, and industrial machine tools in its strategic emerging industries layout, and six key technologies in five major areas in its future-

New materials emerged, forging advantages

.....

In 2023, CNBM continued of new quality productive forces, with new materials emerging. Nine major for CCTV's large industrial documentary "Pillars of Material", becoming samples of Chinese materials participating in global competition.



CCTV's blockbuster documentary "Pillars of Material"



Responsibility Focus

— **II** —

Building a "Belt and Road" Community with a Shared Future

Belt and Road construction is built on the principle of consultation, joint construction and shared benefits, transcending differences in civilizations, cultures, social systems, and development stages, opening up new paths for interactions among countries, setting up a new framework for international cooperation, and gathering the broadest possible consensus for common development of humanity.

Xi Jinping Keynote speech at the opening ceremony of the Third Belt and **Road Forum for International** Cooperation brushwork"

Our Achievements

Setting up 196

overseas institutions in 76 countries (regions) around the world

Owning over 30,000

verseas employees (Chinese and foreign employees)v



fixed asset and equity acquisition

projects in 27 countries



About

engineering service projects have been built at high level and with high quality around the world

> It has invested in and built

36

overseas warehouses and building material supermarket chains in 14 countries



2



... Deep Engagement in the Market for Joint Construction and Shared Benefits

+ industries + services", and has become an important participant in the global building materials industry.

... 开放合作·共赢发展

industry, CNBM is of great significance and duty-bound to accelerate "going global" in the wave of internationalization. We always practice the mission of "creating a better world with materials", constantly innovate the international development mode of global operation, accelerate the pace of internationalization,

ushi's factory in Egypt

and deepen cooperation with global partners. We strive to recreate a "CNBM" overseas in about 10 years, basically building a world-class enterprise with international competitiveness, and contributing to the construction of a community with a shared future for mankind with



Zhou Yuxian, Party Secretary and Chairman of CNBM was invited to projects were signed as key cooperation projects of the BRI.

Our Actions

A fiberglass production base is built in Egypt. Internationalization models of "building the market first and then building the factory" and "supplying foreign markets from foreign resources" are explored. A joint laboratory is established in cooperation with Egypt. All raw materials and process supplies are transformed into local supplies in Egypt. 95% of the products are sold to some markets such as Europe and North America. Represented by BNBM and CNBM Investment, the integration of global supply chain services such as warehousing, logistics, channels, and marketing has been realized. A new business form and model that links the supply chain with overseas warehouses and the supply chain with logistics has been successfully explored.

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- In Papua New Guinea, 18 building materials and home furnishing chain supermarkets and 2 large distribution centers have been established to meet the needs of local society for building houses, schools, churches, shopping malls and office buildings.
- Centering on the basic building materials industry chain, an industrial park is invested and constructed in Zambia. Relying on advanced technology, superior production capacity, industrial synergy and high-quality services, the construction of the local supply chain, industrial chain and value chain is promoted.

ELFerdan Bridge project on the Suez Canal in Egypt is the first railway bridge connecting the Asian and African continent

The second second

MW ground mounted PV power station in Minbu, Myanmar (50MW in Phase I)

Fiber cement board EP project in Saudi Arabia

La telle I

"Going in" and meticulously drawing the "fine brushwork"

Ten years of hard work and perseverance have brought us fruitful harvests. 2023 marks the 10th anniversary of the Belt and Road Initiative. With a global vision, CNBM has firmly adhered to the "three principles" of contributing to local development, cooperating with local enterprises, and serving local residents" for win-win cooperation. CNBM has accelerated its global industrial layout and resource allocation with high-quality building materials, advanced technologies, and mature experiences, actively building an ecosystem that is in harmony with the environment, society, and upstream and downstream sectors of the industry.

Our∙Honor

- 💼 Tianshan Material's "CNBM Zambia Industrial Park Contributes to the Steady and Long-term Development of the Belt and Road Initiative", China Jushi's "Forging a New Benchmark for the Belt and Road Initiative", and Sinoma Energy Conservation's "Illuminating the China-Pakistan Economic Corridor" were included into the 100 best practice cases of Chinese listed companies jointly building the Belt and Road Initiative in the past ten years.
- The short video "A Beautiful Jasmine Flower" of Sinoma International won the "Silk Road Popularity Award" in the Belt and Road Initiative Short Video Competition.
- The short video "Forest Factory: Guarding the Green Homeland" of Sinoma Cement, and the short video "Same Original Aspiration for 30 Years" of CNBM PNG LTD won the Excellent Work Award in the Belt and Road Initiative Short Video Competition.
- The Argentine subsidiary of Sinoma Overseas won the "Safety Development and Joint Belt and Road Construction" award presented by the Chinese Embassy in Argentina and the China General Chamber of Commerce



Universal Benefits, Balance, **Coordination and Inclusion**

In the process of advancing the Belt and Road Initiative, standards are the basic norms for interconnectivity, playing a fundamental and supportive role in infrastructure interconnectivity as well as international capacity cooperation. CNBM has built a number of cement and glass engineering projects in regions participating in Belt and Road construction, fully leveraging its scientific and technological advantages in inorganic nonmetallic materials, and providing a range of services, including joint R&D, testing and certification. While enabling equipment technology to "go global", the Group has actively promoted the internationalization of standards, strongly supported local economic and social development, helped promote the win-win cooperation among partners in the Belt and Road Initiative at a higher level, and supported the steady, long-term, deeper and concrete construction of the Belt and Road Initiative.



- In Africa, we have actively assisted Zambia, Equatorial Guinea and Algeria in building a sound standard system for testing and certification of building materials.
- In Egypt and Ethiopia, "national joint laboratories" were established to help them establish their own testing, inspection and certification standards, and utilize the joint laboratories to deepen local operations and cultivate local talent.
- In Germany, leveraging the advantages of the acquired company in the field of power glass, a laboratory has been jointly built to develop power glass technology and projects, and promote the implementation and on of the results in China



CNBM signed a framework agreement with the Setil University 1 in Algeria to jointly build a Sino-Algerian Belt and Road Materials Joint Laboratory.

Mutual Learning and Appreciation among Civilizations

In the process of promoting the internationalization strategy, CNBM has deeply participated in the infrastructure construction, poverty reduction, community service and education development of the regions along the Belt and Road, actively maintained and protected the rights and interests of employees, respected local customs and religious beliefs, and promoted the harmonious coexistence of Chinese and foreign employees, demonstrating the task and responsibility of CNBM people to actively practice the mission of "creating a better world with materials" and help build a community with a shared future for mankind.







China Jushi: Typical cases were exhibited at the Thematic Forum on People-to-People Connectivity of the Third Belt and Road Forum for International Cooperation

On October 18, 2023, the Third Belt and Road Forum for International Cooperation opened in Beijing. The program "A Happy Life on the Belt and Road - Never Give Up" selected by China Jushi was presented at the Thematic Forum on People-to-People Connectivity of the Belt and Road Forum for International Cooperation. The program is based on the story between the employees from the Technical Quality Department of China Jushi Egypt Company and the masters from the Glass Research Center at the headquarter. The story took place in the China-Egypt Joint Laboratory, which is one of the fifty laboratories to be built in countries jointly building the Belt and Road as proposed by General Secretary Xi Jinping. Chinese masters guided Egyptian apprentices through heuristic methods to independently solve the problems encountered in the process of glass fiber research and development. The program tells how China Jushi builds its factories in Egypt. While solving the problem of employee localization according to local conditions, it also solves the problem of technology localization, provides Egypt with the most advanced glass fiber production technology, and promotes the development of the local industrial chain.



01

Building a Foundation for Development with Excellent Operations

High-quality development is the primary task of building a modern socialist country in an all-round way and the underlying value running through the development of China National Building Material Group Co., Ltd. (CNBM). CNBM gives full play to the role of the national team and main force in the non-metallic material industry, keeps the "top priorities of the country" in mind, builds the "pillar of the country", adheres to making efforts in both the basic building materials industry and strategic emerging industries, accelerates the construction of a modern industrial system, strives to apply the adherence to the guidance under the Party building, continuance in the deepening reform and improvement in the management and operation into the development of main responsibilities and main businesses of the Group, enhances the core function, improves core competitiveness, and steadfastly advances the high-quality development path.

Response to the United Nations Sustainable Development Goals (SDGs)

9 RUSTY NONITIN 11 RECOMMENTES 12 RECOMMENTES 14 RECOMMENTES 14 RECOMMENTES 15 RECOMMENTES 14 RECOMMENTES 15 RECOMMENTES 16 RECOMMENTES 16 RECOMMENTES 16 RECOMMENTES 16 RECOMMENTES 16 RECOMMENTES 17 RECOMMENTES 18 RECOMMENTES 19 RECOMMENTES 19 RECOMMENTES 19 RECOMMENTES 19 RECOMMENTES 10 RECOMMENTE 4 QUALITY EDUCATION

CUC

我们生产量要力





RMB 347.51 billion

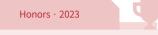
CNBM achieved an operating income ir new materials

RMB 102.66 billion

Operating income of engineering service

RMB 78.23 billion

Outstanding Performance



CNBM received a Grade A in its business performance assessment by the Stateowned Assets Supervision and Administration Commission (SASAC) of the State Council



CNBM firmly grasped the theme of high-quality development, left no stone unturned to improve quality and efficiency and stabilize growth, overcame difficulties with tenacity in the business of basic building materials and made every endeavor to expand the market for stable growth, realized operating income

of more than one hundred billion yuan in new materials, continued to consolidate and improve the business of engineering technical service, and developed the logistic trade business steadily, making positive contributions to serving major national strategies and building a new development paradigm.

Being A Stable "Ballast Stone" for **Basic Building Materials**

CNBM makes constant innovations in the cement business management model, comprehensively promotes the "cement +" strategy, develops in the high-end, intelligent and green direction, and conducts independent research and development on the second generation of intelligent technology and equipment for new dry process cement, reaching the world's advanced level in terms of energy consumption index, environmental protection index and intelligent management index. In 2023, CNBM coordinated and

promoted the optimization and upgrading of basic building materials, completed the upgrading and transformation of 19 clinker lines and 29 grinding lines, increased the limestone self-sufficiency rate by 3.2 percentage points year-on-year, decreased the clinker's standard coal consumption rate by 2.9% year-onyear, comprehensively deepened the "cement +" strategy, and continued to optimize and improve the readymixed concrete business, achieving a year-on-year increase of 30 million tons of aggregate production.

Ningxia Building Materials Group Co., Ltd.: The second-generation new dry-process energy-efficient and environmentally friendly green and intelligent demonstration project of Ningxia Qingtongxia Cement Co. Ltd. was successfully put into production.

On March 10, 2023, the demonstration project of a 4,000-ton-per-day secondgeneration new dry-process energyefficient and environmentally friendly green and intelligent clinker production line of Ningxia Qingtongxia Cement Co. Ltd. of Ningxia Building Materials Group Co., Ltd. was successfully put into production. This production line adopts advanced technologies such as the new sixth-generation highefficiency and low-nitrogen preheating and precalcining sintering process, digital intelligent control technology, expert-optimized automatic control technology, fully automatic batching and inspection technology, and aircooled pure low-temperature waste

heat power generation technology. It is equipped with a fourth-generation centrally installed roller crusher grate cooler, high-efficiency and energy-saving fans, and is supported by a 7-megawatt pure low-temperature waste heat power generation system. This project, which

is benchmarked against the world's firstclass standards, realizes quality and efficiency improvement through highend, green and intelligent development, promoting the transformation and upgrading of Ningxia Qingtongxia Cement Co. Ltd.



Digital Reading · 2023 The new materials sector achieves the operating income of RMB **102.66**

CNBM has been committed to the promotion of high end, mass production and globalization of new material business, formed a worldclass new material product cluster including new glass materials, highperformance glass fiber and carbon fiber, wind turbine blades, lithium battery separators, advanced ceramics, artificial lenses, and high-end quartz materials, offered strong support for "The Pillars of

Zhongfu Shenying Carbon Fiber Co., Ltd.: Promoting high-end, large-scale and green development, and leading the quality improvement and upgrading of the carbon fiber industry.

Facing the new opportunity of the rapid development of the domestic carbon fiber and composite material industries, Zhongfu Shenying Carbon Fiber Co., Ltd. takes "high-end, large-scale and green" development as its strategic positioning. It concentrates technical forces to research and develop and break through a new generation of high-strength, high-modulus and high-performance carbon fibers, continuously promotes the update of product grades and improves the product structure to further meet market demands. At present, Zhongfu Shenying Carbon Fiber Co., Ltd. has its products widely used in many fields such as aerospace, pressure vessels, wind turbine blades, etc., and it has increased the expansion of application in emerging fields such as new energy vehicles and 3C electronics. It plays the role of a "chain leader" by starting from the source, using the advantages of the industrial chain and resource allocation to promote the development process of important industries such as aviation and new energy. In 2023, the 25,000-ton high-performance carbon fiber production base in Xining was fully put into production, and the construction of the 30,000-ton high-performance carbon fiber production base in Lianyungang started. The two 10,000-ton production bases of Zhongfu Shenying Carbon Fiber Co., Ltd. take off in both the east and the west.



Running out of "Acceleration" in New Materials

a Great Power" such as manned spaceflight and homemade large aircraft, and promoted the highlevel independence and selfreliance in the material industry, providing key material support for seizing the strategic high grounds, improving China's comprehensive competitiveness, strengthening, solidifying and replenishing chains, and ensuring national security.

Creating "new business card" for engineering service

consolidate its traditional advantages in the engineering technical service business, promotes globalization, localization and diversified development, takes serving the entire industry as its responsibility, and explores the service-oriented manufacturing industry through largescale R&D service, Internet + service, inspection and certification, carbon

CNBM makes every effort to

trading services, EPC engineering services, smart industrial services, etc., so as to form the new growth pole with new economy, new model and new format. In 2023, the Group continued to consolidate and improve the engineering technical service sector, achieving an increase in the newly signed overseas contracts for engineering technical services by more than 40% year-on-year.

Digital Reading · 2023			p
Value of newly signed contracts RMB 94 billion		Operating income of engineering service RMB 78.23 billion	Ø
Year-on-year Growth	Â	Year-on-year Growth	



ๆ The 15MW air-cooled waste heat power generation project supporting 🦪 The Fauji (DG Khan) clinker cement production line with daily output of 6,500 the BASTAS Cement plant affiliated to the French VICAT Group contracted by Shanghai Triumph Energy Conservation Engineering Co., Ltd., (STEC) successfully passed the project acceptance



Constructing "new model" for logistics trade

CNBM has constantly consolidated the new model of foreign trade, explored the establishment of a business model of "building materials and home furnishing chain supermarket + overseas warehouse" with building materials' characteristics, innovatively implemented "standardization + localization" cross-border logistics solutions, invested in the construction of 36 overseas warehouses and building materials supermarket chains in 14 countries including United Arab Emirates, Tanzania, South Africa, Papua New Guinea and Vietnam; created the comprehensive cross-border e-commerce service demonstration platform "okorder. com", built a link between upstream and downstream links of the product chain, and driven more than 30,000 kinds of products in China to go global, maintaining the stability of global industrial and supply chains; The wzcwlw.com digital logistics platform focuses on logistics services for manufacturing enterprises. It has

Saima IoT Technology (Ningxia) Co., Ltd. (Saima IoT): The "wzcwlw.com" digital logistics platform creating new drivers of digital and intelligent services

Saima IoT focuses on the development positioning of the "wzcwlw.com" digital logistics platform. Adhering to digital technology, it analyzes the business needs and management pain points of target users. With the goal of optimizing and enhancing supply chain efficiency and solidifying and optimizing the construction of chain leaders for collaborative development of the industrial chain, it develops overall solutions and products that meet customer needs. It continuously creates ecological products such as the postvehicle mall, digital and intelligent cloud warehouse, unmanned monitoring system, and marketing order micro-apps. Within the year, it completed the construction of unmanned monitoring systems in more than 50 factories of enterprises such as Taishan Gypsum Co., Ltd. In 2023, Saima IoT optimized 172 functions for platform experience, integrated 44 systems, reviewed a total of 206,400 human customer services. It handled a total of 278,000 online consultation calls for replying to questions. It continuously optimized and transformed system interfaces to improve the digital and intelligent level of the platform and accelerate the response and transmission speed of a single record on the platform, with an efficiency improvement of nearly 70 times. It conducted in-depth research on enterprise business processes and transportation control models, optimized transportation processes, and achieved the application effect of seamless online launch of similar businesses in some cement enterprises. It actively promoted logistics control business, helped cargo owner enterprises achieve raw material traceability and product flow tracking, and assisted transporters in the optimization of transportation organization models, creating a new image of digital logistics services.



completed the linkage with 599 cargo owner enterprises through the system integration, and has been selected into the 2023 National Big Data Application Demonstration Project of the Ministry of Industry and Information Technology of the People's Republic of China.

In 2023, the Group's logistics and trade sector developed steadily. CNBM invested in overseas warehouses and building materials supermarket chains, achieving revenue of RMB 4.66 billion, a year-on-year increase of 28%.

Building a Foundation fo nent with

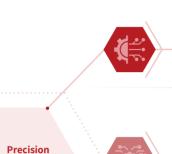
Precision Management

"Precision Management" is an excellent crystallization of China National Building Material Group Co., Ltd. (CNBM) in management innovation theory and practice. It is a characteristic methodology rooted in practice and rich in connotation. It is also the concentrated reflection of long-termism and value principle. Faced with various difficulties and challenges, especially the impact of factors that exceed expectation, CNBM has dealt with the difficulties with full confidence, continuously deepened the "precision management",

Lean Management

CNBM fully maintains the industry ecology, does a good job in "Cement +", speeds up international expansion, and empowers technology innovation through data integration. In 2023, CNBM vigorously promoted the "reduction" in both costs and expenses. The Group' s average financing cost decreased by 29BP year-on-year, and financial expenses decreased by 8.2% year-onyear. Tianshan Material Co., Ltd. gained the income of RMB 500 million from the disposal of inefficient assets, and the unit costs of cement and readymixed concrete decreased by RMB 43 and RMB 56 respectively year-on-year. Beijing New Building Materials Public Limited Company (BNBM) achieved the cost reduction of RMB 1.42 billion on the production and procurement ends through its "One Cent" Cost Saving Plan. China Jushi Co., Ltd. achieved the cost reduction of RMB 1.3 billion via the working method of "increasing income, curtailing expenditures and reducing consumption". Sinoma Overseas Development Co., Ltd. (Sinoma Overseas) saved RMB 120 million in rectification costs for the Saudi ACC project.

promoted organizational changes, process changes and data changes, and empowered and accelerated the construction of a world-class enterprise with excellent products,



Management

outstanding brands, leading innovation and modern governance.

Lean Management

Focusing on the price, cost and interest, zero inventory, and centralized collection and sales. Paying attention to the business refocusing, innovation effectiveness, market segmentation, and pricing rationalization to create an invisible champion.

Refined Management

Focusing on reducing costs, improving quality and increasing varieties. Standardizing management, standardizing operations, standardizing quality, and minimizing the use of two funds to seek benefits from management.

Refined and Healthy Management of Organization

Focusing on reducing institutions, levels and redundant staff. Paying attention to the standardized governance, hierarchical functions, specialized platforms and streamlined institutions to ensure orderly exercise of power.

Sinoma Advanced Materials Co., Ltd.: The cost model guides cost reduction and efficiency enhancement

Sinoma Advanced Materials Co., Ltd. has been taking "Precision Management" as an important means to improve quality and efficiency for many years. According to the different situations of leading industries, it refines and improves the cost models of main products. By strengthening basic workshop management and the application of the ERP system in production links, it has the cost model refined to each process and main product model. Through analysis and comparison, it finds the breakthrough for cost reduction. Through data accumulation, it sets cost targets for process and link. It holds monthly operation meetings to analyze cost expenditures, find existing problems, and propose control measures. Sinoma Jiangxi Insulator and Electricity Co., Ltd. and Shandong Zibo Electric Porcelain Factory Co., Ltd. carried out joint invitation to tender, having the average purchase price of key raw materials decreased by 10%. With the kiln renovation, Shandong Zibo Electric Porcelain Factory Co., Ltd. and the second manufacturing department of Sinoma Jiangxi Insulator and Electricity Co., Ltd. had the fuel consumption per ton of porcelain decreased by more than 16% yearon-year; the gas consumption per ton of the first alumina kiln decreased by 15% yearon-year, and the electricity consumption decreased by 15%. Through special actions for cost reduction and efficiency enhancement such as raw material substitution and process optimization, Shandong Industrial Ceramics Research and Design Institute had the unit cost of fiber membranes decreased by 23%. The large quartz industry achieved a pass rate of 96.7% through improving the slurry preparation method and mold renovation, an increase of 1.8 percentage points year-on-year. After carrying out financial management improvement activities, Sinoma Advanced Materials Co., Ltd. had the average loan interest rate dropped to 3.16% and financial expenses decreased by 11.59% year-on-year, and it enjoyed RMB 22.685 million for tax reductions and exemptions based on the policy. In 2023, Sinoma Advanced Materials Co., Ltd. reduced costs and expenses by more than RMB 50 million.



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Refined Management

CNBM effectively promotes digital transformation, refined operation and management, and business integration, implementing the empowerment through system process reconstruction. In 2023, CNBM advanced the world-class "dual demonstration" action steadily. The Group was selected in the creation of world-class demonstration enterprises, and two enterprises were selected in the creation of world-class professional leading demonstration enterprises. Meanwhile, CNBM accelerated the implementation of value creation actions, enriched the new connotation of "precision management", implemented comprehensive budget management, strengthened "great compliance" management, carried out compliance evaluation of 18 enterprises and post-investment evaluation of 22 key projects, effectively consolidating the closed-loop system for steady development.

Refined and Healthy Management of Organization

CNBM has further made innovations in the organizational structure, improved the incentive mechanism, and strengthened corporate governance, stimulating development momentum with organizational potential and vitality. In 2023, CNBM reduced the number of legal entities, reduced and managed the losses, and disposed of risky assets. 151 legal entities and RMB 300 million of losses were reduced throughout the year. Meanwhile, the focus is placed on deep integration and optimization of main responsibilities and main businesses. Qilianshan Cement Group Co., Ltd. and China Communications Construction Company Limited conducted asset restructuring completion for the design institutes, establishing the first model of market-oriented restructuring



and listing of central enterprises; Ningxia Building Materials Group Co., Ltd. absorbed CNBM Technology Corporation Limited (CNBM Tech), entering the stage of examination and approval by the Review Committee of Merger, Acquisition and Reorganization in the Exchange; Sinoma Science & Technology Co., Ltd. integrated blade business to build a global industry



China Jushi Co., Ltd. and Zhongfu Shenying Carbon Fiber Co., Ltd. were selected in the creation of world-class professional leading demonstration enterprises.



Qilianshan Cement's Business Restructuring Completion Ceremony

leader; Sinoma International and HCRDI completed the integration of equipment business; Beijing New **Building Materials Public Limited** Company (BNBM) reorganized Carpoly Chemical Group Co., Ltd. to expand the coatings business and help "one body and two wings" take off.

Building a Foundation fo nent with

Deepening Reform

On the basis of consolidating the achievements of the three-year action of deepening reform, CNBM focuses on improving the core competitiveness of state-owned enterprises and enhancing core functions, and spares no effort to launch a new round of action of deepening and improving the reform of state-owned enterprises, striving to create a dynamic modern new stateowned enterprise.



CNBM insisted on strengthening the leadership of the Party in improving corporate governance, revised the "three meetings" list of powers and responsibilities of the Group, carried out special inspections on the "three meetings" list of powers and responsibilities of subsidiaries, further clarified the boundaries of powers responsibilities, identified decisions, standardized decisionmaking procedures, established the collaboration and exchange mechanism for the construction of the board of directors of subsidiaries. deepened the evaluation of the board of directors of subsidiaries, promoted the extension and expansion of the construction of the board of directors to subsidiaries, and achieved new results in the integration of the leadership of the Party into corporate governance.

Digital Reading · 2023 אית Carried out More than **40** more than **100** \bigcirc institutional reforms achievements were selected into the reform cases of SASAC and professional institutions

Actions

CNBM comprehensively arranged the Group's work ledger, sorted out and improved 163 supporting materials for specific measures, organized and carried out a special assessment of the three-year reform action of second-class enterprises, and achieved a successful conclusion of the three-year reform action of state-owned enterprises. Meanwhile, for the implementation of reform deepening and improvement actions

Achievements · 2023

Reform Deepening

and Improvement

- Administration Commission of the State Council.
- Enterprise Reform.

Reform of Market-oriented **Operating Mechanism**

CNBM deepened the reform of the operating mechanism, strengthened accurate assessment and rigid fulfillment, and enhanced the position competition, bottom-level adjustment and incompetency exit mechanism of managers. The coverage of secondand third-class enterprises reached 72.7%, and the proportion of bottomlevel adjustment and incompetency

exit reached 6.5%. Meanwhile, CNBM actively promoted the coverage expansion and quality improvement of medium and long-term incentives. In 2023, it approved 10 enterprises to implement medium and long-term incentives, motivated more than 3,600 key employees, and achieved new breakthroughs in the reform of marketoriented operating mechanism.



CNBM holds its 2023 annual collective achievement briefing meeting at the Shenzhen Stock Exchange



CNBM holds a mobilization and deployment meeting for reform deepening and improvement actions and a work meeting for the first half of 2023

People's Well-being with

with high quality and high starting point, the Group and 15 key and backbone enterprises and 13 "science and technology reform" and "double hundred" enterprises formulated specific implementation plans, took advantage of the momentum to carry out a new round of state-owned enterprise reform, and strived to write a new chapter of reform in the new era and new journey.

CNBM has been rated as "Class A" for three consecutive years in the reform assessment of the State-owned Assets Supervision and

CNBM's fifteen reform achievements have won the award for deepening reform achievements of state-owned enterprises. CNBM has been selected as one of the eighteen comprehensive typical cases of the three-year action for state-owned enterprise reform and compiled into the Demonstration and Guidance - Collection of Comprehensive Typical Cases of the Three-year Action for State-owned

Guidance of Party building

CNBM has thoroughly studied, understood and unswervingly implemented Xi Jinping's important thoughts on Party building, continued to strengthen its roots and forge its soul, concentrated its efforts, unlocked the strength to forge ahead through in-depth study, concrete understanding and earnest practice, created the backbone of high-quality development with high-quality Party building, and built a powerful political foundation and strong guarantee for high-quality development.

Ideological and political construction

CNBM insists on taking Xi Jinping's important instructions and comments as "political documents" continues to deepen the "first topic" system; firmly grasps the general requirements of "learning ideas, strengthening party spirit, emphasizing practice, and making new achievements", promotes key measures such as theoretical study, investigation and research, development promotion, inspection and rectification in an integrated way, and actively strengthens the

connection and linkage of the two batches of thematic education.

Its development of thematic education has been fully affirmed by the Party Committee of the State-owned Assets Supervision and Administration Commission of the State Council (SASAC), and its experience and practices have been published on People's Daily Online and other media for 40 times.

Achievements · 2023

- Five theoretical articles have been published in Red Flag Manuscript, Study Times and other publications.
- Three political research topics have been commended by the Research Institute for Party Building, Ideological and Political Work of State-Owned Enterprises.



ๆ Zhou Yuxian, Secretary of the Party Committee and Chairman of China National Building Material Group Co., Ltd. (CNBM), gives a special Party class on thematic education

Construction of Leading Officials

CNBM deepened the grass-roots construction, basic work and basic skills training, selected young brands and young role models, created 200 youth task groups; strengthened talent team support, strongly built the "five maior functions" of the headquarters, offered powerful corporate leadership, intensified the systematic training for leading officials and talents, established the Group's party school (training center), constructed the online learning platform "Shan Jian E Xue", set up a talent pool of 189 young leading officials via hierarchical



The 16th training course for young and middle-aged leading officials is held

An All-out Effort to Enforce Strict Party Discipline

CNBM continues to strengthen political supervision, tightens and consolidates the supervision of key minority, conducts practical and detailed daily supervision, seriously investigates and deals with violations of regulations and disciplines, and improves the closed-loop supervision system. In 2023, CNBM carried out penetrating supervision and inspection of the implementation of the guiding principles of the Eightpoint Decision of the Political Bureau of the CPC Central Committee. The Group's Discipline Inspection Commission directly handled 21 clues to problems, involving 13 management staff of the Group's Party Committee. Meanwhile, CNBM solidly carried out the education and rectification of the staff of discipline inspection, strengthened the education of ideological purity, cleaned up, rectified and purified the

organization, carried out warning education on a regular basis, learnt lessons from cases, and strengthened the warning and deterrence, so as to

21

classification, and selected and 12 officials born in the 1970s and three born in the 1980s to join the Group's second-level and important

backbone corporate leadership, so as to constantly consolidate the battle fortress.



educate Party members and leading officials at all levels of the Group to hold discipline in awe and respect and keep the bottom line.



02

Building a **Powerful Country in** Materials with Robust Innovation

In the report to the 20th National Congress of the Communist Party of China, we must regard science and technology as our primary productive force, talent as our primary resource, and innovation as our primary driver of growth. We should fully implement the strategy for invigorating China through science and education, the workforce development strategy, and the innovation-driven development strategy. We should open up new areas and new arenas in development and steadily foster new growth drivers and new strengths. CNBM unleashes the power of innovation, strengthens technological research, deepens innovation collaboration, and promotes digital transformation. The Group's scientific and technological innovation system has become more complete, its scientific and technological innovation achievements have become more fruitful, achievement transformation capabilities have continued to increase, and the role as national team of the non-metallic materials has been further demonstrated. and the role as national team of the non-metallic materials has been further demonstrated.

dao) Glass Co., Ltd. Shanhaiguan No. 1 Lin

17 PARTNERSHIPS FOR THE GOALS

• Yaohu





RMB 6.03 billion

3.7

24

26500

3

Building a Powerful Country Robust Innovation

Innovation **Ecosystem**

CNBM always insists on innovationdriven creation of the "Pillar of the Country"", actively promotes institutional mechanisms, management, and open innovation, cultivates leading enterprises with original core technological competitiveness, gives full play to synergy effects, and forms a good innovation ecosystem, providing a leading and supporting role for China's building materials industry to achieve leap-forward development.



Building an innovation platform

CNBM attaches great importance to the construction of scientific and technological platforms, optimizes the allocation of scientific and technological resources, unites the forces of all parties to jointly create a collaborative innovation highland, and continues to enhance the Group's scientific and technological innovation capabilities and core competitiveness.

Action · 2023

- CNBM formulated guidance on medium- and long-term incentives and constraints, encouraging enterprises to try first and boldly explore, and comprehensively use various incentives including equity incentives, employee stock ownership of mixed-ownership enterprises, dividend incentives, excess profit sharing, project follow-up investment, phantom equity, etc., so as to mobilize employees' innovative impetus.
- CNBM divided scientific and technological achievements into categories A, B and C, and implemented incentives and transformations by classification, so that scientific researchers could "gain both fame and wealth"

Strengthening innovation management

CNBM attaches great importance to innovation management, strengthens the top-level design of scientific and technological innovation, improves the system and mechanism of scientific and technological innovation, strengthens incentives for scientific and technological innovation, adheres to the principle of "availability and feasibility", continues to promote the implementation of a package of incentive guarantee mechanisms, effectively transforms policy dividends

into scientific and technological productive forces, enhances the sense of gain of enterprises from scientific and technological innovation, and provides a strong guarantee for scientific and technological innovation. In 2023, a mid-term assessment was conducted for the Group's Phase I project of "open competition mechanism to select the best candidates", and bonuses were given to 6 outstanding projects during the evaluation.

Achievements · 2023

- Through the creation of an innovation system of "1+17" enterprise technology centers, the Group and its affiliated Sinoma Science & Technology Co., Ltd. and China Triumph International Engineering Co., Ltd. gained excellent evaluation results of the national enterprise technology centers in 2023.
- It promoted cross-border integration of innovation resources such as wellknown universities and leading technology enterprises, and completed the reorganization plans of three national key laboratories.
- It secured the approval for the national defense technology innovation center of glass-based functional material, completed the construction of the Composites Industry Center, a part of National New Materials Testing and Evaluation Platform, and the national dual-carbon public service platform, obtained the license from the Ministry of Industry and Information Technology for the advanced inorganic non-metallic material industry center, and established the CNBM Technical Equipment (Hefei) Research Institute .
- With the creation of a "technology + industry + service" "Belt and Road" materials innovation model, it built overseas innovation platforms such as the China-Egypt joint laboratory for high-performance fibers and composites, which received praise from on-site inspections by the Ministry of Science and Technology.
- With the innovative implementation of the "113N" overseas new materials cooperation model, it confirmed the strategic cooperation framework agreement with Saudi Arabian Oil Company (Saudi Aramco) and offered new layouts of overseas innovation platforms such as the China-Middle East Joint Laboratory for New Materials, the China-France Carbon Neutrality Joint Research Center, and the China-Algeria Joint Laboratory for "Belt and Road" Materials.

Cultivating innovative talents

CNBM thoroughly implements the workforce development strategy, insists on identifying talents in innovative practices, cultivates talents in innovative activities, gathers talents in innovative undertakings, continues to deepen the incentive mechanism for scientific and technological talents,

Digital Reading · 2023

38.000 Scientific and Academician technological research and development personnel 9 Academician workstations



accelerates the training of leading talents in scientific and technological innovation, focuses on key areas such as cement-based materials, composite materials for large aircrafts and new glass materials, vigorously cultivates and uses strategic scientists, leading talents and innovative teams, introduces scarce high-end scientific and technological talents; cultivates a culture of innovation, promotes the spirit of scientists, respects the

pioneering spirit of employees, allows young scientific and technological backbones who are truly innovative and practical to take the lead and play the leading role, guides the majority of scientific and technological talents to display their abilities and talents, and continuously activates the surging momentum of the high-quality development of CNBM.

Building a Powerful Country Robust Innovatio

Achievements of **Technological** Innovation

As a central enterprise in China's building materials industry, CNBM gives full play to its role as a national team and main force in the field of inorganic non-metallic materials. Based on the attributes of a stateowned capital investment company, it focuses on its main responsibilities and main businesses, vigorously implements the innovation-driven development strategy, provides strong support for improving core competitiveness and enhancing core functions, and continuously promotes high-level scientific and technological self-reliance and independence.

Scientific and technological self-reliance and independence

CNBM focuses on the "Four Aspects", actively integrates into the national research system, fully undertakes major national scientific and technological research projects, strengthens the dominant position of enterprises in scientific and technological innovation, accelerates the construction of original technology sources for inorganic non-metallic materials; focuses on strategic emerging industries and future industries, continues to increase research and industrialization efforts on the basis of achieving key technological

Digital Reading · 2023	~
Ranked 18 th in patent sorting among central enterprises	The cumulative number of valid patents reached 26,500
Evaluated as Grade	Participated in formulation and revision of
by SASAC	international standards

breakthroughs and industrial mass production in the fields of new glass materials, high-performance carbon fiber and glass fiber, megawatt wind turbine blades. lithium battery separators, advanced ceramics, artificial lenses, and new graphite materials, deploys key and core technology research throughout the entire chain of technological innovation decisionmaking, R&D investment, scientific research organization, and achievement transformation, strengthens the supply of original technology, breaks through a number of new "bottleneck" technologies as soon as possible, accelerates the formation of new quality productivity in key material fields, and helps build a modern materials industry system.

In 2023, the group built 8 test lines or pilot lines, including T1100 carbon fiber, silicon nitride bearing balls for wind power, and low dielectric glass fiber: demonstrated and transformed a number of original achievements, such as oxygen-combustion coupled carbon capture, low-carbon grinding equipment, large offshore wind turbine blades, 70MPa hydrogen storage cylinders, aramid-coated lithium films, localization of overseas glass fiber raw materials, large-size ZnS/ZnSe infrared optical materials and high-efficiency cadmium telluride power generation glass, played a good role as the national team for key materials research, and forged national strategic scientific and technological strength.



- CNBM implements the list-based management of the rights and responsibilities of the leaders of the Group's "open competition mechanism" projects.
- CNBM organizes and establishes 28 Phase II projects of the Group's "open competition mechanism" initiative, and gathers superior innovative resources to carry out joint research.
- <-T02-CNBM innovatively adopts the combined method of the Group's "seed" fund and special funds from enterprises with technical needs.
- CNBM sets up three types of projects comprised of application demonstration research, world-class research, standard leadership, and policy research.





The high-performance fused cast refractory materials for glass solidification Joule furnaces developed through innovation by Ruitai Materials Technology Co., Ltd. (Ruitai Technology) were successfully delivered, showing that China successfully conquered the "bottleneck" in key technologies and processes of lining materials of glass solidification Joule furnaces for nuclear waste high-level radioactive liquid waste for the first time. The independently developed fused cast zirconia-chrome-corundum products have broken the long-term technical monopoly of refractory materials for Joule furnaces in Europe and America. It is the first time that key refractory materials for glass solidification projects in China have realized localization, strongly promoting the safety and sustainable development of China's nuclear energy industry.



The first domestic set of continuous rotary kiln with an annual output of 10,000 tons of anode materials for lithium-ion batteries independently developed by Xianyang Keyuan New Material Equipment Co., Ltd., a wholly-owned subsidiary of Xianyang Ceramics Research and Design Institute Co., Ltd., was successfully delivered, marking a major breakthrough in the production of lithium-ion battery materials in China. By overcoming difficulties in key technologies and processes such as sealing form, heating method, and prevention against adherence to the wall, it has achieved high efficiency and continuity in the production of anode materials for lithium-ion batteries. Compared with the original mature equipment, the diameter of the kiln for 10.000-ton anode materials for lithium-ion batteries has been enlarged by 30% and the length has increased by 40%. The successful operation of this rotary kiln has improved the production efficiency of anode materials for lithium-ion batteries and reduced energy consumption by 15% in the production process, saving more than 20% of costs for customers.



The 123-meter ultra-long wind turbine blade produced by Lianyungang Zhongfu Lianzhong Composite Group Co., Ltd. began to be installed offshore The installation site is in the Pingtan Wind Farm in Fujian Province. This is the longest wind turbine blade in China that has entered the installation stage and will be used for the world's first ultra-large-capacity 16-megawatt offshore wind turbine.



Chasing Dreams in Space: The 362C time controller developed and produced by the Horological Research Institute of Light Industry (HRILI) affiliated to China Building Materials Academy Co., Ltd. (CBMA) is applied to the return capsule of the Shenzhou-17 manned spacecraft and has independent intellectual property rights. Beijing Composite Materials Co., Ltd. developed medium-density premix for integrated heat prevention/insulation used in key parts of the Shenzhou-17 manned spacecraft, the heat shield panel at the bottom of the engine of the Long March-2F Y17 carrier rocket, and the high-performance ablationresistant resin for the escape tower of the Long March-2F Y17 carrier rocket, escorting the Shenzhou-17 manned spacecraft to chase dreams in space. The high-strength yarn developed by CSG Holding Co., Ltd. is respectively applied to the heat-proof structural parts of the Long March-2F Y17 carrier rocket and the thermal insulation laver of the return capsule of the Shenzhou-17 manned spacecraft, providing reliable guarantee for rocket launch, docking of the spacecraft and the Tianhe core module, and the safe return of astronauts. Tianiin Beacon Coating Industrial Development Co., Ltd. of Beijing New Building Materials Public Limited Company specially forms an aerospace coating research team to provide special coatings for the Shenzhou-17 manned spacecraft.

Soaring in the blue sky: Lianyungang Zhongfu Lianzhong Composite Group Co., Ltd. undertakes the localization-oriented development task of the main landing gear door of domestic large aircraft. It has completed the key technology research and typical structural sample manufacturing of the inner door and middle door of main landing gear.

Action · 2023

The Pillar of the Country Scaling New Heights

The world's first UHPC150 wind power hybrid tower enters engineering application.

the second

Suzhou Concrete and Cement Products Research Institute Co., Ltd. accurately targets the huge application potential of UHPC in engineering infrastructure construction, deeply cultivates and strengthens independent innovation capabilities, and forms a "special UHPC research and development team". After seven years of innovative research and development, it explores the theory and practice of UHPC engineering application. In 2023, the ultra-high performance concrete (UHPC) tower tube segments with concrete strength grade C150 developed by Suzhou Concrete and Cement Products Research Institute Co., Ltd. were successfully applied in a 180-meter wind power hybrid tower, and the height of the concrete tower tube reached 157.4 meters. This marks the entry of the world's first UHPC150 wind power hybrid tower into engineering application and is also a huge leap for the domestic wind power industry.

The rotor sail manufactured by Lianyungang Zhongfu Lianzhong Composite Group Co., Ltd. was successfully installed at the shipyard, marking the birth of the world's first bulk carrier equipped with a rotor sail with a diameter of 5 meters and a height of 35 meters. The application of wind-assisted rotor sails in actual ships has taken a leap forward

Building a Powerful Country in Materials with Robust Innovation

Collaboration on Innovation

Optimizing innovative service

CNBM increases support for innovative services, adds 8 new "specialized, highend and innovation-driven SMEs" around new energy, new materials and other fields, declares 4 single-item champion enterprises in the manufacturing industry around the fields of new materials such as highperformance carbon fiber, special glass fiber, and special photoelectric functional glass; actively "finds solid food" for enterprises, acquires the approval of a total of 24 projects including major technical equipment research of National Development and Reform Commission, high-quality development, national key research and development plans, and items supporting national defense, obtains special financial funds of RMB 700 million; secures the sources of innovative R&D expenditure, assists the Group's Finance Department to apply for state-owned capital of RMB 1.5 billion; and organizes the Group's finance company to successfully issue the finance company's first carbon capture syndicated loan to Qingzhou Zhonglian Cement Co., Ltd. at an interest rate of 2.3% with a term of 3 years, completing the first case practice of financial support for the transformation of building materials industry in China.

Deepening internal collaboration

CNBM focuses on the greening of basic building materials and the high-end, mass-production and internationalization of new materials, highlights the condensation of major common technical needs from actual production, makes full use of the advantages of the Group's ultralarge-scale application scenarios, establishes an industry-research docking mechanism and communication platform, and encourages manufacturing enterprises to open application scenarios, release innovative needs, and promote the large-scale application and iterative upgrading of new technologies, new materials, and high-end equipment.

CNBM adheres to open sharing and collaborative integrated innovation, lays out the innovation chain around the industrial chain, deepens longterm cooperation with universities and scientific research institutions, gives full play to the role of "question setter" and "question answerer" of technology-based enterprises, and

accelerates the establishment of an industry-research cooperation mechanism based on the premise of revenue and risk sharing, intellectual property sharing and protection period lock-in, continuously providing new momentum and new opportunities for the development of new quality productivity.

Carry out joint innovation

We aim at the needs of major national strategies and major projects. Leveraging the advantages of 26 national-level scientific research institutes, more than 38,000 scientific researchers, and 26,500 valid patents of the group, we deeply promote innovation integration with central

enterprises, central and local governments, universities, etc. by integrating innovative elements such as talents and platforms. We carry out joint research, create a collaborative innovation consortium, achieve a winwin situation for multiple parties.

China National Building Material Company Limited: Successfully issued the first science and technology innovation renewable corporate bond

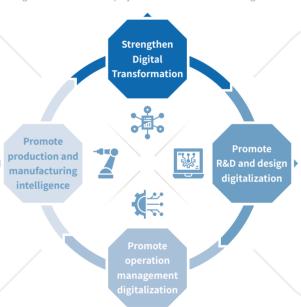
In June 2023, China National Building Material Company Limited accurately grasped the issuance window of the bond market and successfully issued the first science and technology innovation renewable corporate bond. The total issuance scale is RMB 2 billion. The maturities are 2+N years and 3+N years respectively. The nominal interest rates are 2.87% and 3.03% respectively. The full subscription multiples are more than 4 times and 6 times respectively. The nominal interest rate hits a new low for that of perpetual bonds with the same maturity in the whole market this year. The successful issuance of this science and technology innovation renewable corporate bond is a powerful measure for China National Building Material Company Limited to further use the bond market to serve the national innovation-driven development strategy and unblock diversified financing channels.

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債券简称	发行规模	发行期限	主体评级	票面利率	全场倍数
建材YK01	10亿元	2+N半期	AAA	2.87%	4.3倍
建村YK02	10亿元	3+N-年期	AAA	3.03%	6.1倍
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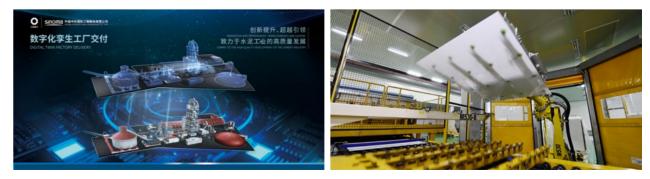
Digital Transformation

We put forward the group's vision of "Digital Leading Material Creation", draw up the "1254" digital development blueprint, clarify the threestage digital promotion path of "laying a foundation, consolidating, and upgrading", establish the Group's digital management center, and start building the "three systems" of process governance, data governance, and digital governance as well as the digital foundation of "one network" and "one cloud", designate digitization as the "No. 1 project" of the cement business segment.

We make full use of the technical advantages of the industry, strengthen core technology research and integrated innovation, and create a new generation of intelligent factories and digital mines with even better indicators, realizing standardized data collection on production lines, numerical control of equipment, intelligent operation, digital management, and scientific decisionmaking. We start the construction of Cement Intelligent Factory 2.0. The cumulative number of enterprises that have implemented the integration of informatization and industrialization standards in the Group has reached 134. The number of cement intelligent factories and intelligent mines has increased to 23 and 8 respectively.



We carry out management processes and data governance, improve data analysis tools and models, and promote online and visualized operation activities such as planning, organization, control, and coordination. We gradually realize business analysis's digitization, realtime, and systematization. The group's treasury system is launched, and the visualization rate of domestic accounts is 100%, fully realizing intensive management and dynamic monitoring of funds. The construction of the data center in the industrial Internet industrial park has started. The "Vehicle Calling" intelligent logistics platform and big data platform for cement waste heat power generation are selected as pilot demonstration projects of the big data industry by the Ministry of Industry and Information Technology.



Digitalization of R&D and design

CNBM complies with the general trend of the digital economy, grasps the industrial opportunities brought by digital upgrades, regards digital transformation as a must-answer question related to the survival and development of enterprises, firmly establishes the corporate mission of "creating a better world with materials" and the digital vision of "digitalization leading material

creation", regards 2023 as the first year of digital upgrading and insists on completion of drawing a blueprint for digital transformation work. Focusing on digitalization of R&D and design, intelligent production and operations, and agile user services, it accelerated the release of new digital momentum and drive digital value enhancement with digital transformation.

> We create an independent R&D design platform for basic building materials projects, carry out digital collaborative three-dimensional design, open up data from all business links and upstream and downstream related parties, achieve 100% digital coverage of cement business R&D design and 100% digital delivery rate of core products, and realize the fullprocess digitalization from scheme design to digital delivery, laying a solid foundation for intelligent factories.

Intelligent production and manufacturing

03



中国建材

13 CLIMATE ACTION

15 UFE ON LANE

17 PARTNERSHIPS FOR THE GOALS

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Optimal ecology Create a sustainable future

The report to the 20th CPC National Congress points out that Chinesestyle modernization is modernization characterized by harmony between humanity and nature. We must firmly establish and act on the concept that lucid waters and lush mountains are invaluable assets. We should plan for development from the perspective of promoting harmonious coexistence between humanity and nature. CNBM actively practices the concept that lucid waters and lush mountains are invaluable assets, promotes full-cycle green management and strengthens green innovation, green manufacturing, green production, and green services, earnestly transforms the building materials industry into an environment-friendly industry, helping the industry and the country achieve the "dual carbon" goals as soon as possible, makes the sky bluer, the waters clearer, and the land greener, and contributes the strength of building materials to building a green and beautiful homeland.

• The appearance of Sinoma Luoding

1



Building a Powerful Country

Future with

Green Management

CNBM unswervingly takes the road of sustainable development with ecological priority, closely follows the main line of green development, continuously strengthens environmental protection management, accelerates green, lowcarbon and circular development, achieves powerful carbon reduction, effective energy conservation, quantified emission reduction, orderly rectification and risk prevention, and continuously improves the level of green and lowcarbon development. In 2023, the Group's ecological and environmental protection supervision platform was initially completed, realizing visible, knowable and controllable risks in energy and environmental protection management, and effectively promoting the improvement of energy and environmental protection management level. No major ecological and environmental incidents occurred throughout the year.

Promote special rectification

- We checked and dispatched the rectification situation of environmental protection inspections every month and compacted the responsibilities for inspection and rectification. All 46 rectification tasks and 180 rectification measures of the central ecological and environmental protection inspection had been completed.
- We carried out special environmental protection rectification actions for enterprises related to the Yangtze River and Yellow River basins. A total of 258 problems were identified and rectified under ledger-based closed-loop management and control.
- We organized 564 enterprises related to the Yangtze River and Yellow River basins to conduct a comprehensive inspection of ecological and environmental issues. A total of 211 issues were identified and all had been implemented for rectification.

- We deployed and carried out special ecological and environmental protection work such as rain and sewage diversion and investigation and rectification of hazardous waste. Preliminary results were achieved in rain and sewage diversion construction and compliant management of hazardous waste.
- We promoted pollution reduction and carbon reduction, energy-saving technological transformation, and discharged pollutants in accordance with laws and permits. The total emission dropped significantly, the energy consumption per unit of the product continued to decline, and the fuel substitution rate of biomass, high calorific value solid waste and other fuels steadily increased.
- We organized 767 production enterprises to carry out special investigation and rectification work related to hazardous waste. All the identified problems were implemented for rectification.

Prevent environmental risks

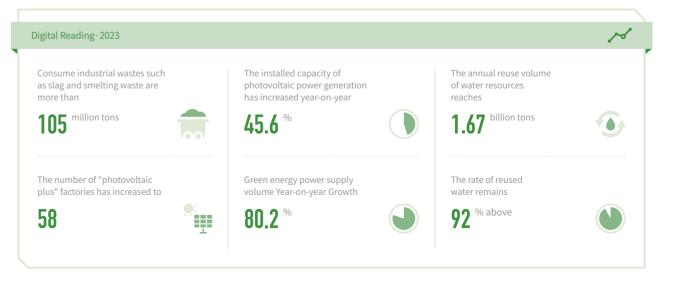
> We guickly responded to the sudden environmental public opinion event of LCR, handled it actively, stably and effectively, avoided the risk of negative public opinion, and received a letter of thanks from the Atmospheric Environment Department of the Ministry of Ecology and Environment.



The scenery of Kharchin Grassland Cement Plant

Green Production





至美社会 增民生福祉 至臻管理 塑责任品牌

CNBM runs the concept of green development through every link of raw and fuel material selection, production process and product application, pursues energy conservation and pollution control and carbon reduction in the whole process, promotes the

continuous transformation and upgrading of the building materials industry to "ecological green", and transforms it into an environmentfriendly industry, making the blue sky bluer, the clear water clearer and the earth greener.

Green Material Selection

By the end of 2023

heat power generation from cement kilns, with a cumulative installed capacity of about

> 4 2.000 MW



the world's longest 118-meter wind turbine

We always adhere to the concept of "Making Good Use of Resources and Serving Construction". We actively carry out technological innovation. Under the premise of ensuring product quality, we use industrial by-products such as slag, steel slag and fly ash as raw materials as much as possible. We also continuously promote the recycling of solid waste and waste water, and strive to reduce the consumption of natural resources. In 2023, the Group's solid waste consumption exceeded 105 million tons. At the same time, in terms of energy selection, we vigorously develop cement waste heat power generation from cement kilns, actively explore the use of non-fossil energy sources such as solar energy and biomass, and strive to increase the proportion of clean energy use. By the end of 2023, the Group's cement waste heat power generation from cement kilns, with a cumulative installed capacity of about 2,000 megawatts. The annual power generation is 7.24 billion kilowatt-hours, which is equivalent to reducing carbon dioxide emissions by about 4.03 million tons.



Sanming South Cement Co., Ltd.: Carry out hazardous waste disposal and alternative fuel utilization to help save energy and reduce emissions

In recent years, Sanming South Cement Co., Ltd. has deeply integrated new-quality productive forces in production practices. Adhering to the development concept of green, low-carbon and energy-saving, it has actively carried out hazardous waste disposal and the use of alternative fuels. In 2023, Sanming South Cement Co., Ltd. co-processed as many as 26,400 tons of various hazardous wastes including highcalorific value hazardous wastes such as essential oil residues and coal tar residues. It has saved 1,000 tons of standard coal annually and reduced carbon emissions by 2,700 tons. At the same time, it also uses general solid wastes such as garment and shoe leftovers and waste cloth strips that are abundant in coastal areas of Fujian Province as alternative fuels. After technological transformation and optimization, the use of general solid wastes has reached 17,900 tons, replacing 12,700 tons of coal, further reducing carbon emissions by 34,300 tons. At the same time, it has created an annual benefit of more than RMB 5 million for the enterprise.



Green Manufacturing

We actively implement the new development concept, take the lead in practicing the "dual carbon" goal, continuously establish and improve the green manufacturing system, strengthen the ecological environment management of member enterprises, strictly implement emission standards and requirements, develop clean and environmentally friendly energy sources such as photovoltaic, wind power, and hydrogen energy, continuously reduce pollutant emissions in the building materials production process, and promote the greening of the entire manufacturing process. At the same time, we actively innovate collaborative disposal and operation models, build a green supply chain and circulation system, and strive to achieve green and sustainable development of the entire industrial chain.

In 2023, we made great efforts to implement the Notice on Further Strengthening the Renewal and Transformation of Product Equipment in Key Fields. Centering on optimizing the energy consumption structure, improving energy consumption efficiency, and strengthening energy consumption management, we organized and promoted the implementation of energysaving technological transformation and industrial energy-saving diagnosis, and the energy efficiency level continued to be optimized.



- Twelve enterprises of China National Building Material Company Limited were selected for the 2023 Green Manufacturing List of the Ministry of Industry and Information Technology.
- The "industrialization and application project of large-area and high-efficiency cadmium telluride power generation glass technology" cooperated by China Triumph International Engineering Co., Ltd. and German CTF Solar GmbH was selected as a typical case of China-Europe cooperation on green and lowcarbon development.

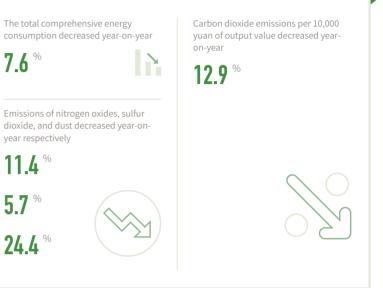
Digital Reading · 2023

7.6

year respectively 11.4 5.7 24.4

- We have solidly promoted year decrease of 3.90%. We actively promote the ultra-low
 - identified.

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energy-saving technological transformation of over-limit production lines. Eighty-three clinker production lines with excessive energy consumption and 158 cement grinding production lines with excessive energy consumption have been completely cleared. The energy consumption per unit product of cement clinker of the group has been continuously optimized, dropping to 103.93 kilograms of standard coal per ton, a year-on-

emission transformation work and carry out inspections for ultralow emission transformation. After review by China National Building Material Co., Ltd. and Tianshan Material Co., Ltd., 321 production lines (including grinding stations) that need ultra-low emission transformation and 26 production lines to be phased out were



- We take the lead in organizing the first meeting of the working group on "dual carbon" policy research in the cement industry to promote the implementation of the national "dual carbon strategy in the entire industry.
- We signed a "Framework Agreement on Voluntary Emission Reduction Trading" with China Forestry Group Corporation to promote the implementation of the largest forestry carbon sink transaction among central enterprises.
- We consolidate the group's carbon emission data foundation and organize the summary, collation and analysis of carbon emission verification data of 67 cement enterprises.
- Four major projects including the Hefei Southern Intelligent Engineering Project and the cement carbon capture and full oxygen combustion project were successfully completed, and the remaining seven projects are advancing in an orderly manner.
- The 200,000-ton annual carbon capture project of China United Cement Qinzhou Co., Ltd. is in the final stage.

Basic Building Materials Sector

We develop and use industrial waste resources as raw materials and highcalorie waste as alternative fuels to produce highquality green and lowcarbon cement products.

New Materials Sector

We start from the source of formulations to do a good job in green design, vigorously develop new energy materials such as wind turbine blades and power generation glass, and promote the green upgrade of new material products.

Green Products

We pay attention to the full life cycle performance of products in terms of green. Relying on technological innovation, we actively promote green manufacturing. With the lowest possible energy consumption and carbon emissions, we strive to create green and low-carbon "pillar of the country". We provide building materials products that are reliable in quality, safe, green, environmentally friendly and low-carbon for customers. Under the premise of ensuring product quality and transportation safety, we actively promote simplified packaging, use recyclable packaging materials as much as possible, and reduce packaging waste to help improve the effectiveness of sustainable development of the whole society.

In 2023, more than 10 projects involving green and low-carbon industries, such

as the complete set of technology and engineering applications of thin-film solar cells and the development of largesized offshore wind turbine blades, were carried out. We strengthened the R&D and application of low-carbon building material products such as new cementitious materials and low-carbon concrete, and accelerated the certification and application promotion of green building material products, leading the building materials industry to accelerate green transformation. The "refractory decorative board" and "medical clean board products" of Sinoma Oianijang, as well as the asbestos-free calcium silicate board/fiber cement flat plate of Sinoma Yichang have obtained the three-star certification of China Green Building Materials products, reaching the highest national standard for green building materials products.

China Jushi: Market-oriented, making the industrial ecology "beautify".

Building a new green industrial system for glass fiber is the key to the green and low-carbon transformation of the glass fiber industry. As the main body of the glass fiber industry, China Jushi uses green technology to create green products and continuously leads the trend of green consumption. It has built a full-chain ecological industrial system for glass fiber through both internal and external efforts. In the upstream, it actively drives the glass fiber industry chain to carry out low-carbon and environmental protection work, conducts a "dual carbon" survey and research on the main suppliers involved, and at the same time carries out forest carbon sink cooperation to jointly shape a sustainable future with suppliers. In the downstream, glass fiber is redefining materials and shaping a new business format for downstream industries. In 2023, the company's green product output accounted for 100% and green product sales accounted for 100%, which is at the leading level in the industry.



Green Services

As the world's largest comprehensive building materials industry group and a world-leading developer of new materials and comprehensive service provider, CNBM has always adhered to the corporate mission of "Materials create a better world" and strived to provide customers with multiple types of green products and services, helping to continuously optimize and upgrade the green industrial structure and service level.

Professional **Technical Services**

material industry in 2023".

Integrated Consulting Services

Relying on China Certification and Inspection Group, the largest comprehensive third-party inspection and certification service organization in the field of construction materials inspection in China, we provide consulting, evaluation and certification services in energy assessment, energy management system certification, CDM project, green building materials evaluation, carbon verification and other

Ecological value-added services

We actively promote waste heat power generation and effectively utilize building material kilns to dispose of industrial by-products and urban wastes, realizing effective and harmless disposal of industrial and urban wastes. This enables traditional industries to exert new value and helps solve the "persistent,

capacity of 5.42 million tons.

Comprehensive Service of Ecological Restoration

We actively explore environmental protection service projects, undertake environmental impact assessment, completion environmental protection acceptance, and pollutant discharge permit work for construction projects. We expand slope optimization and geological environment restoration and treatment projects, and provide green mining and mine governance services for domestic and foreign cement plants, turning quarries that were once

treatment projects.

We use high-efficiency and energy-saving firing system, pollutant emission reduction technology, waste heat power generation, cooperative disposal and other technologies to continuously provide some energy-saving and environmental protection technical services, such as professional environmental monitoring and diagnosis, technical transformation and intelligent control. In 2023, the "Integrated technology and application of lowcarbon and energy-saving for cement clinker firing system" independently developed by TCDRI was successfully selected into the "Top 20 advanced and applicable low-carbon technologies in the raw



The cement waste heat powe generation technology independently developed by Sinoma Energy Conservation Co., Ltd. has been successfully applied in Huaikan South Cement

services. In April 2023, the R&D and Application of Refined Management Solution for River Outfalls completed jointly by China Building Material Test & Certification Group Co., Ltd. and its affiliated Beijing Aodaging Co., Ltd. won the second prize of the Science and Technology Award of the All-China Environment Federation in 2022



 Mohe Extreme Cold Testing Industria Park of China Certification and Inspection Group

big and difficult" problems of urban ecological governance. The Group has put into production and is building 53 cement kiln cooperative disposal production lines, with a total annual disposal



China United Cement Luoyang Co., Ltd. utilizes cement kilns for coprocessing of industrial solid and hazardous wastes

regarded as desolate and silent into new ecological gardens full of lush greenery. In 2023, the Yunnan General Team of the Geological Exploration Center obtained Class A qualifications for geological disaster assessment and engineering investigation and design of treatment projects, and Class B qualifications for supervision of geological disaster



The green mine of Mashan Mine of Dushan South Cement, which is operated and maintained by Tianjin Mine of Sinoma Mining.

Future with Optimal Ecosystem

Green Operation



🟲 Jushi (Chengdu) Co., Ltd. has utilized the plant roof to build the distributed photovoltaic power station with the largest single installed capacity in Chengdu at present

Environmental Protection Publicity and Education

We combine events such as the World Earth Day, National Energy Conservation Publicity Week, and National Ecology Day to widely mobilize enterprises at all levels to organize various forms of ecological civilization publicity and education activities. We study, publicize, and implement Xi Jinping Thought on Eco-Civilization, promote green, circular, and low-carbon development, and use the spirit of perseverance to continuously achieve new results in ecological civilization construction. In 2023, we initiated the knowledge competition on energy conservation and ecological environmental protection. A total of 1.02 million people logged into the system to answer questions. Competitions were used to promote training, further examining and enhancing the knowledge level and vocational technical ability of the group's energy conservation and environmental protection personnel.

CNBM actively practices the ecological civilization concept of "respecting nature, conforming to nature and protecting nature", vigorously advocates the green office, and organizes environmental protection publicity and education and environmental protection public welfare activities to stimulate environmental protection enthusiasm and improve environmental protection

literacy. At the same time, efforts are made to strengthen biodiversity protection, carry out mine reclamation and factory area greening, and strive to build various green mines and ecological factories to effectively protect the beautiful homeland of harmonious coexistence between humans and nature.

Green Office

We adhere to the concept of the green office, adhere to energy-saving and environmental protection work methods such as electronic office work, doublesided printing, and video conferences. We advocate green, energy-saving, and low-carbon environmental protection production methods, consumption patterns, and living habits among all employees. We also actively mobilize employees to participate in community prevention and control to put an end to "man-made destruction of systems, incompatibility between systems and enterprises, problems in work handover procedures, and imperfect management systems". This makes the concept of green development deeply rooted

in people's hearts and makes due

Digital Reading · 2023	~
The number of on-site meetings replaced by video conferences is 38,897	

contributions to promoting the group's quality and efficiency improvement and realizing green and sustainable development.



CNBM jointly initiated and established the "Six Zero Green Building Materials Day"



Ecological Protection

We continuously implement Xi Jinping Thought on Eco-Civilization, actively carry out the construction of green mines and ecological factory areas, conduct ecological restoration and treatment of mines, adopt the combination mode of trees, shrubs and grasses to restore vegetation, restore as much as possible and plant as much as possible, continuously increase the green area within the factory area, and build garden

Sinoma Anhui: Transform and upgrade towards "ecological green".

Sinoma Anhui closely follows the goal of green and low-carbon development and promotes the full implementation of green manufacturing by taking measures such as energy conservation, low carbon, and green transformation to achieve a harmonious situation where enterprise green development and environmental protection coexist and prosper. Sinoma Anhui has successively invested a large amount of funds in energy-saving technological transformation and achieved good energy-saving effects. At the same time, in order to strengthen in-depth treatment of safety and environmental protection, it took the lead in introducing composite desulfurization technology, carried out a series of ecological protection facility transformations such as graded combustion denitrification technological transformation, expanded the bag filter at kiln tail, and implemented ultra-clean emission technological transformation to reach the ultra-low emission standard of Anhui Province. The company has been awarded the title of "Honest Unit in Environmental Protection Credit Evaluation of Anhui Province" for five consecutive years. On the basis of being a provincial-level green factory, it was awarded the honorary title of a national-level green factory in 2023.



People's Well-being with

factories and beautiful factories. At the same time, we will increase efforts to protect biodiversity and actively explore and promote the modernization of harmonious coexistence between humanity and nature, contributing wisdom and strength to promoting global biodiversity protection and building a beautiful homeland of harmony among all creatures.

Helping Employees' Growth Helping employees' growth

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The report of the 20th National Party Congress of the Communist Party of China pointed out that cultivating a large number of high-quality talents with both ability and political integrity is a major plan for the long-term development of the country and the nation. Employees are an inexhaustible driving force for the high-quality development of enterprises. Employees are an inexhaustible driving force for the high-quality development of enterprises. CNBM adheres to the people-oriented development concept, coordinates development and safety, safeguards employees' rights and interests, strengthens care for employees, and is committed to creating a happy and healthy workplace to achieve the common growth of employees and enterprises.

• Jushi (Egypt) Co., Ltd. cultivates local talents

CNBM

Total number of employees

O

207,784

nvestment in occupational health and safety

RMB 2.2 billion

Expenditure on visiting and helping special and needy employees is



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8 DECENT WORK AND ECONOMIC GROWTH

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4 QUALITY EDUCATION

9 INDUSTRY, INVOLUTION AND INFRASTRUCTURE

5 GENDER EQUALITY

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10 REDUCED INEQUALITIES O

ST JUSHI

MB **10.978** millior

Sustainability Report 2023

Building a Foundation Development with Excellent Operations Building a Powerful Country in Materials with Robust Innovation Creating a Sustainable Future with Optimal Ecosystems

Safety and Prudence

We resolutely implement President Xi Jinping's important instructions on work safety, adhere to the safety development concept of "putting people first and life first", continuously increase investment in work safety, strengthen the red line awareness and bottom line thinking of work safety, and build a strong line of defense for work safety. In 2023, no major work safety accidents occurred, and the work safety situation remained stable continuously.

Safety Management

Safety responsibility is the most important thing. We attach great importance to work safety. We continuously improve the work safety management system. We have established a regular meeting system for the safety committee and an interview mechanism for work safety accidents of the group. We implement checklist-based management of safety for member enterprises, effectively compacting the main responsibility for work safety of each enterprise.

We conduct in-depth investigations of major risk hazards in work safety, carry out special rectifications for work safety, strengthen emergency management of work safety, effectively prevent and suppress the occurrence of work safety accidents, and contribute to building intrinsically safe enterprises.





Investigation of potential hazards in work safety

Organize and carry out special rectification actions for major potential hazards in work safety of the group and supervision actions for the investigation and rectification of major potential hazards in work safety in 2023. Conduct cross-inspections on safety and environmental protection for key enterprises. Promote the rectification of potential hazards in accordance with "list management, listing important matters and conducting continuous tracking and supervision, checking off against the list, and closed-loop control."

Prevention and control of work safety risks

Hold work safety teleconferences at all levels. Carry out special tasks such as safety prevention and control in key industries and accident prevention during key periods. Conduct warning education and accident analysis meetings to analyze accident causes, review work gaps, and prevent work safety risks.

Emergency management of work safety

Construct a safety emergency support system for Chinese employees overseas. Strengthen the construction of the emergency response capabilities of key personnel in production and operation links. Actively carry out safety emergency plan drills. Improve the emergency management level of key personnel and their ability to respond to emergencies to prevent safety accidents from occurring.

Work safety management of mines

Strictly implement the Opinions on Further Strengthening Work Safety in Mines. Conduct investigations on the current situation of safety and environmental protection in mines. Use digital means to achieve comprehensive and systematic management of 312 operating, suspended, and underconstruction mines of the group.



Yang Zhihui, director of the Bureau of Safety Law Enforcement and Industrial and Trade Safety Supervision of the Ministry of Emergency Management, investigated CNBM.

Safety enhancement with science and technology

"Safety enhancement with science and technology" is a fundamental solution to improve the work safety management level of the enterprise. We adhere to enhancing safety through science and technology and make every effort to promote the construction of a safety intelligent management system. We establish intelligent video surveillance covering risk areas. Through big data analysis and intelligent recognition, we accelerate the process of applying scientific and technological informatization to work safety and systematically improve the safety management level of the enterprise. In 2023, the intelligent safety management system for cement enterprises was put into operation, playing an exemplary and leading role and providing reference significance for work safety management work in various regions and fields.

Ruoqiang Tianshan Cement Co., Ltd.: Empowered by dig management level of enterprises.

Ruoqiang Tianshan Cement Co., Ltd. adheres to the safety policy of "safety first, prevention first, and comprehensive management", and steadily promotes digital transformation. In 2023, with the help of CNBM Xinyun Zhilian Technology Co., Ltd., it completed the construction and deployment of the intelligent safety production management system and put it into operation. After intelligent and digital construction, the company has implemented many digital application scenarios in aspects such as safety business management, intelligent video AI, all-in-one access control, and personnel positioning, providing efficient supervision means and a digital platform for enterprise safety management. Improving People's Well-being with a Beautiful Society Shaping a Responsible Brand with Perfect Management



On July 14, 2023, the kick-off meeting of the first officially put into operation project since the comprehensive construction of the intelligent work safety management system of CNBM was held in Lunan Zhonglian.

Ruoqiang Tianshan Cement Co., Ltd.: Empowered by digital intelligence to help improve the intrinsic safety



Safety Culture

We continuously strengthen the construction of safety culture. Actively hold a series of activities such as special training on work safety, safety knowledge competitions, and

Digital Reading∙202	3 🎤
Select outstanding	organizations
with "Zero Violation	ı".
1 057	
1,957	• • •
Outstanding individ	luals
-	
6,894	
Intermediate Certifi Engineer Pre-exam	· · · · ·
Linginieer i re-exam	
continuing education	
continuing education employee	

Work Safety Month. Solidly carry out the creation of outstanding individuals and organizations with "zero violations". Organize cadres and employees at all levels to learn work safety knowledge and strengthen work safety awareness, so that safety culture is solidified in the mind and implemented in actions.

ction · 2023	O
management observation activit exchanges between enterprises, a and the implementation and tra	up Co., Ltd. organizes and carries out the y of "Work Safety Month". Through mutual strong safety culture atmosphere is created, nsformation of various observation results nprove the safety management level of the
It ranks and assesses its affiliated as safety data indicators, safety investigation and treatment capal creating a good safety atmosphe	d winter 100-day safety competition activities. d companies from multiple dimensions such y publicity and education, hidden danger bilities, and emergency management levels, ere of emulation, learning, catching up, and lture activities throughout the year.
Sinoma International Engineering such as a publicity and training s responsibility system for work sat	Co., Ltd. organizes multiple special trainings session on the special achievements of the fety for all employees, a training session on overseas employee safety emergencies, and

many interesting activities such as the fifth short video shooting and selection

on safety themes, safety riddles with prizes, safety dressing competitions, and essay collections on "Everyone Talks about Safety." It also sets up special

columns on safety on multiple platforms to create a strong safety atmosphere.

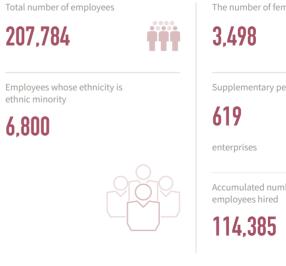


Sinoma (SUZHOU) Construction Co., Ltd., affiliated to Sinoma International Engineering Co., Ltd., holds a safety knowledge competition.

Employee Rights and Interests

- Adhere to the principle of equal employment. Do not use gender, age, nationality, ethnicity, religious belief, skin color, etc. as recruitment requirements. Strictly prohibit and resist employing child labor in any form. Pay attention to vulnerable groups. Eliminate employment and occupational discrimination. Respect and safeguard human rights.
- Strengthen the management of employees' personal information. Always protect employees' personal information in the process of cadre selection and appointment, assessment and evaluation, employee recruitment, physical examination, use and maintenance of human resources systems, intermediary consulting, and daily information statistics. Prevent the occurrence of incidents of leaking employees' personal privacy.

Digital Reading · 2023



We always respect and safeguard all human rights recognized internationally. We strictly follow laws and regulations such as the Labor Law and the Labor Contract Law. We adhere to equal employment and sign labor contracts with employees in

accordance with the law. Effectively safeguard employees' rights and interests, respect employees' individual differences, and be committed to creating an equal, diverse and inclusive workplace culture.



- Establish a salary growth mechanism that matches economic benefits, implement a paid vacation system, and provide employees with salaries that are competitive in the market. Pay social insurances such as basic pension insurance, basic medical insurance, unemployment insurance, work-related injury insurance and maternity insurance for employees in accordance with the law. Continue to improve supplementary medical insurance, enterprise annuity and regular physical examinations. Encourage member enterprises to handle other supplementary insurances such as comprehensive accident insurance for employees in combination with the actual situation of their own enterprises.
- Adhere to the work orientation centered on employees, improve systems such as the work specifications of the workers' congress and factory affairs publicity. Give full play to the role of trade unions as a communication bridge and build important channels for democratic participation, democratic management, and democratic supervision to safeguard employees' rights to know, participate, express, and supervise.

		2
Ş	The signing rate of labor contracts	Ê
	The rate of social insurance coverage %	
	The proportion of employees participating in the trade union 89 %	ij
		 100 % The rate of social insurance coverage 100 % The proportion of employees participating in the trade union

Employee Development

We vigorously implement the strategy of building a talent-strong enterprise, attach importance to employee training, strive to build a high-quality employee team, smooth the career development path for employees, and do our best to create a development stage for employees to achieve the common development of the enterprise and employees. In 2023, we continuously improved the construction of the talent training institution system and established a craftsman college to provide strong talent and organizational guarantees for the high-quality development of the group and the construction of a world-class enterprise.

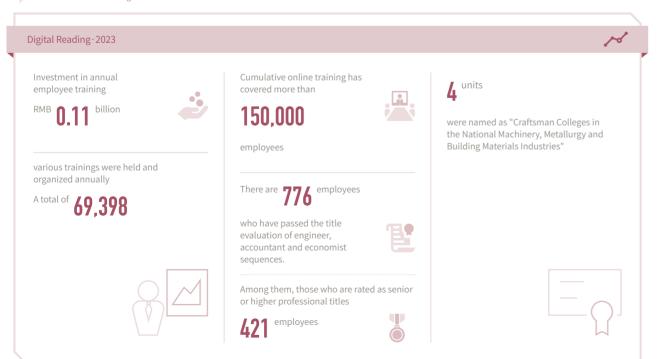


Formulate an annual training plan and carry out various special trainings relying on internal and external training institutions according to the training objects and training topics. Regularly hold medium-term and long-term trainings such as EMT and middleaged and young cadres classes, and actively organize and carry out special trainings such as the rotation training class on the spirit of the 20th National Party Congress of the Communist Party of China, the subclassrooms of the training courses for senior executives of central enterprises, and the deepening and upgrading of reforms, so as to continuously improve the political ability, management ability and professional level of cadres and employees.

Continuously broaden the career development channels for employees. establish a multi-channel job grade system including headquarters management sequence, professional sequence, and full-time sequence, ensure that the career development channels are unobstructed and orderly, and guide employees of different types and specialties to choose career development paths suitable for themselves. In 2023, the title evaluation work for engineer, accountant, and economist sequences was carried out. 776 employees passed the evaluation, among which 421 employees were rated as senior or higher professional titles.



Hold the sixth EMT training class



Employee care

We adhere to the people-oriented development concept, integrate our own development with enhancing employee well-being, strengthen the construction of office facilities, create a safe, healthy and comfortable working environment for employees, care about employees' health and life, organize a variety of colorful cultural and sports activities, and continuously enhance employees' sense of happiness, identity and acquisition.

Digital Reading · 2023

RMB 10.978

Expenditure on visiting and helping

special and needy employees is

Special and needy employees

were offered visits and

assistance

9.647

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Women care

Assistance for needy employees



Winter sports meeting for employees of Ningxia Building Materials Group Co., Ltd.



Establish and improve the occupational disease prevention and work-related injury prevention system. Through measures such as conducting occupational health checkups, first aid skill training, expert health consultation activities, and labor protection and popularization of health knowledge, make every effort to protect employees' occupational health.

Safeguard the legitimate rights and interests and special interests of female employees, and ensure that they enjoy pregnancy checkups, maternity leave, suckling leave, reimbursement of maternity insurance and maternity allowance. Nursing rooms are set up for employees on suckling period to use. The staff restaurant provides nutritional supplements for pregnant employees.

Life care

Provide three meals a day for employees. Issue housing subsidies to eligible young unmarried employees. Establish cultural and sports facilities such as gyms and organize various leisure and entertainment activities to promote employees to achieve a balance between work and life.

Implement the Staff Assistance of the "Shanjian Charity Fund" of China National Building Materials Group Co., Ltd., review the scope and conditions of assistance objects level by level, help needy employees solve practical difficulties, and effectively play the role of helping those in distress.



China United Cement Jivuan holds the "Charming Kite, Flving Dreams" activity for Women's Day



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6 CLEAN WATER

17 PARTNERSHIPS FOR THE GOALS

10 REDUCED

9 ACUSTRY INCOLUTION AND INFRASTRUCTURE

with a Beautiful Society Increasing People' s Wellbeing

The report of the 20th National Party Congress of the Communist Party of China pointed out that "we must ensure and improve people's livelihood in the course of development, encourage people to work hard together to create a better life, and continuously fulfill people's aspiration for a better life." We always keep in mind the "the top priorities of the country". We work hand in hand with our partners to discuss and build together. We comprehensively help rural revitalization. We carry out public welfare and charitable actions with heart and affection. We take the initiative to participate in emergency rescue and disaster relief activities. We show the responsibility of central enterprises with practical actions and continuously improve people's well-being. We share the development achievements of enterprises with society.

• The "Colorful Classroom" teaching support action of Ningxia Building Materials Group Co., Ltd.

1 NO POVERTY

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8 DECENT WORK AND ECONOMIC GROWTH

59



otal donation amount

33

Implementation of assistance projects

RMB 88.102 million

investing in Helping Funds

Open Cooperation

CNBM firmly believes in the development path of inclusiveness, mutual benefit and win-win results, continuously strengthens strategic cooperation, opens up new opportunities for overseas business, and establishes cooperative relationships with global partners for consultation, coconstruction and sharing.

Work together for win-win cooperation

We give full play to the role of the national team and main force in the non-metallic materials industry. Keeping in mind "the top priorities of the country" and creating "the top talents of the country", we adhere to exerting efforts on both basic building materials industry and strategic emerging industries. We accelerate the construction of a modern

industrial system, gather multiple forces, and actively carry out strategic cooperation with partners such as governments, enterprises, scientific research institutions and colleges. We innovate cooperation models to achieve a strong alliance and promote complementary advantages, and jointly seek high-quality development.

CNBM signed a cooperation framework agreement with the Heilongjiang provincial government



♦ HUAWEI ○ 中国建材 签约仪式

CNBM signed a strategic cooperation agreement with Tsinghua University



👎 CNBM signed a strategic cooperation framework agreement with China 🦪 CNBM signed a strategic cooperation agreement with Huawei Technologies Railway Group Limited Co., Ltd



Help promote the development of the industry

We adhere to open and inclusive development. Actively organize and participate in industry exchanges and research, promote the formulation of industry standards, create an industry ecosystem of value co-creation and win-win cooperation, and boost the high-quality and sustainable development of the building materials industry.

The Group: CNBM New Materials Fund Holds an Industry Partner Conference and New Materials Industry **Investment Salon**

On April 22, 2023, the "CNBM New Materials Fund Industry Partner Conference and New Materials Industry Investment Salon" with the theme of "New Era · New Materials · New Opportunities" was successfully held at CNBM. The CNBM New Materials Fund, deeply combining its resource endowment characteristics, adheres to the "three step" development strategy of focusing on layout, expanding clusters, and prospering projects, actively builds an innovative ecosystem for the new materials industry, and strives to create a new situation of "win-win cooperation between central enterprises capital and real enterprises, and a new situation of prosperous ecology of the new materials industry, promoting high-quality development of the new materials industry.

On June 15, 2023, Zhou Yuxian, Party secretary and chairman of CNBM, attended and presided over the High-Quality Development Summit of Leaders of Large Enterprises in the Cement Industry.



Four industry research reports on wind turbine blades, high-purity quartz,

for the Waterproofing Industry was adopted by the State-owned Assets



Rural **Revitalization**

The report of the 20th CPC National Congress proposed to "co-ordinate the layout of rural infrastructure and public services, and build a beautiful and harmonious countryside that is desirable to live and work in". China National Building Material Group Co., Ltd. (CNBM) deeply implements General Secretary Xi Jinping's important thesis on the

country's work related to agriculture, countryside and farmers. Establish a perfect fixed-point assistance working mechanism, promote the effective implementation of various assistance measures, organically connect with rural revitalization, and effectively enhance the economic vitality and development stamina of the assisted areas.

Strengthening Toplevel Design

A country must first strengthen agriculture to make itself strong, and only when agriculture is strong can the country be strong. We deepened the fixed-point assistance work, set up a leading group for fixed-point assistance work, held regular special meetings on fixed-point assistance work, innovatively established a guarantee assistance mechanism, refined the assistance tasks, and combined the strengths of the member enterprises and the assistance districts. Effectively combine the characteristics of the county to form a three-dimensional assistance model of "unified leadership of the group, active planning and promotion by the guaranteeing units, close attention to the implementation on the front line by the cadres on secondment, and active response and support from all member enterprises", and promote the effective connection between consolidating and expanding the achievements of poverty alleviation and rural revitalization.

On April 12, 2023, CNBM held a working conference on assisting rural revitalization in 2023.



👎 Zhou Yuxian, Party Secretary and Chairman of CNBM, went to Suijiang County, Zhaotong City, Yunnan Province to investigate rural revitalization work.

Consolidating the **Achievements** of the Battle against Poverty

We continued to fulfill our political and social responsibilities as a statedowned enterprise, focusing on the "Five Revitalization", and increased our assistance efforts, we have gradually formed a unique assistance model of "guided by Party building, guarantee units implementation, industrial collaboration, Good Learning assistance, and e-commerce to increase income", to promote the revitalization of the countryside and help achieve common prosperity. Achievements of the CNBM 's assistance For four consecutive years, the CNBM has received a "good" rating in the appraisal among the stated-owned units.

In 2023, the CNBM's rural revitalization assistance work "Good Learning Plan" was praised at the SASAC's rural revitalization work conference. "Hebaodan" was selected as a classic case of global poverty reduction. The "Public Welfare Cattle" assistance project implemented by the CNBM was successfully selected as an excellent case in the Blue Book of Central Enterprises Helping Rural Revitalization (2022) of SASAC.

In 2023, CNBM launched the "Science and Technology for Rural Revitalization" program, organizing science and technology and skills experts to conduct on-site research at the first line of assistance, achieving rural revitalization with science and technology





Academia Sinica invested RMB 30,000 to supplement the fitness equipment for remote villagers in Liyang Village, Xiaohe Town, Shitai County, Anhui Province, to build a national fitness square and to add 170 square meters of new wall paintings to publicize the Party's policies

helping funds

33

Responsible Brand with



The group: Incubating "Hebaodan" that holds the hope of rural industries.

"Hebaodan", the e-commerce assistance platform of China National Building Material Group, is a public welfare e-commerce platform specially developed and operated for the group's designated assistance work. The "Hebaodan" platform has constructed a multi-collaborative model of "government supervision - cooperative organization - farmers supplying goods - platform has continuously innovated in operations, marketing and other aspects, and has supported 41 enterprises and cooperatives in areas such as Shitai County, Anhui Province, Jingyuan County, Ningxia Hui Autonomous Region, Yongshan Yunnan Province, as well as Tibet Autonomous Region and Xinjiang Uygur Autonomous Region. By the end of December 31, 2023, the "Hebaodan" driving more than 20,000 farmers in assisted areas to increase their incomes.





Assistance in Xinjiang, **Tibet and Qinghai**

The prosperity of industry is the cornerstone of the prosperity of all industries. All along, we have given full play to the guiding and coordinating role of policy, and have made it a major political task to support the development of Xinjiang, Tibet and Qinghai. We have taken industrial assistance as our mainstay, accelerated the construction of a number of key projects, further amplified the effectiveness of local development, and effectively promoted local employment, improved people's livelihoods, and strengthened national unity through assistance in Xinjiang, Tibet and Qinghai.

Digital Reading · 2023			N
Enterprises in Xinjiang	Ń	Pay taxes and fees RMB 0.69 billion	
Enterprises in Tibet	le	Pay taxes and fees	
Enterprises in Qinghai		Pay taxes and fees RMB 0.07 billion	, Č

Tianshan Material Co., Ltd.: Focus on "four key points" to help rural revitalization.

Tianshan Material Co., Ltd. actively fulfills the political and social responsibilities of state-owned enterprises, focuses on the general and happy homeland. The company has innovatively constructed the "1234" rural revitalization work model of "one center, two responsibilities, three well-placed, and four key points". In 2023, the Party organizations at all levels of Xinjiang Cement carried out 30 national unity education and practice activities, donated money and materials for building beautiful villages, and the value of donated cement exceeded one million yuan. One "Visit, Benefit the People, and Gather Hearts" working team and one first secretary with a total of six people were dispatched. In 2023, the per capita net income of the assisted villages increased by 20.9% compared

Xinjiang Cement helps villagers grow peppers.



Good Deeds

CNBM is enthusiastic about public welfare and charity, takes the initiative to participate in rescue and disaster relief, endeavors to create more social value for the people, and jointly builds a better and happier home.

Committing to public welfare and charity

We continue to practice the concept of "Making Good Use of Resources and Serving Construction", set up a "Good Building" public welfare fund, implement the "Good Learning Program", and carried out "Colorful Classroom" activity. We set up a volunteer team to carry out a wide range of social welfare activities such as volunteering, helping the weak and the needy, and supporting teaching and education, so as to warm up the society with the strength of the enterprise, give back to the people with the heart of public welfare, and transmit social warmth.

projects

638

12

12.668

- China Jushi has established the Jushi Love Bank and organizes all employees to donate money the Love Bank, public welfare activities such as consumptionbased poverty alleviation and love relief are widely organized.
- Tianshan Material actively carry out volunteer activities consoling lonely elderly people, and providing convenient services to convey social warmth.
- BNBM launched the "Shanjian" teaching support action. Six volunteers were organized to form a teaching support team and went to Yongshan Ethnic Primary convey love and care to children in mountainous areas.



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Shaping a Responsible Brand with Perfect Management

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ๆ China Jushi's "Jointly Building and Sharing, Walking Together" Employment Assistance Base for the Disabled officially established, which widened the chance to employment and happiness for the



国务院国有资产监督管理委员会

感谢信

中国建材集团有限公司:

中央和国家机关老田小区综合整治是旨在消除安全隐患、改 善居住环境、切实提高广大干部职工安全感、幸福感和获得感的 民生工程,民心工程,2023年,国务院国资委者由小区综合集协道 目全面开工,委党委函度重视,机关服务局稽心组织,目前已基 本完成全部改造内容, 在项目实施过程中, 贵集团公司所属北新 建材彰显夹企担当, 不谈条件, 不讲困难, 保质保量按期完成龙 牌外墙真石漆及配套产品供应,全程提供技术指导,有力保障了 项目顺利实施, 此外, 在办公区日常维修改造过程中也给予了大 力支持。春节将至,特此向贵集团公司及所属北新建材表示衷心



 Beijing New Building Materials Public Limited Company (BNBM) won the Letter of Thanks from the State-owned Assets Supervision and Administration Commission of the State Council for assisting in the comprehensive improvement of old neighborhoods in central and state organizations

The educator Tao Xingzhi said, 'Hold a heart without asking anything in return.' We treat those children with the sincerest attitude and give all that we have to fill the children's hearts with warmth. We sincerely hope that the children will grow up to be like fireflies, bringing light and hope to those around them while shining themselves.

----Shi Xuejun, from Tianshan Material

I have gained a lot of knowledge and broadened my horizons by attending the Colorful Classroom. Teachers come from all over the world to tell us about the outside world. I am a curious little girl, I also want to see the outside world, I also want to know how big the outside world is, I also want to go to the Yellow Crane Tower in Cui



----Yuan Zihan, from Kazi Village School, Shouwang Township, **Zhaoyang District**

The Group: Bringing light and illuminating each other. China National Building Material Group holds the "Shanjian" colorful classroom activity.

From August 7 to 11, 2023, in order to further promote the "youth's contribution to rural revitalization action", China National Building Material the problem of "difficulty in care" during summer vacation by holding the "Shanjian" colorful classroom activities in five designated assisted districts and counties. This "Shanjian" colorful classroom has set up 15 teaching children. Children in the mountains are eager for knowledge and the outside world. The "Shanjian" colorful classroom carefully arranges courses such as culture, handicrafts, dance, art, thinking, science, and physical education, as well as various enterprise courses reflecting the characteristics of building materials, leading children to explore the mysteries of power-generating glass and making exquisite plaster models together... Through five days of teaching and companionship, children have gained knowledge, broadened their horizons, and become more confident, independent, firm and brave. Nearly 100 volunteers from 15 member enterprises walked into the countryside. education with entertainment. They ignited children's dreams with love and perseverance, illuminated children's futures with love and dedication, and wrote the youthful chapter of "Pillar of the Country" with responsibility and





Rush to help in emergency rescue and disaster relief

We have proactively fulfilled the social responsibility of the central enterprise, moved at the command and took up the heavy burden to fully support the local earthquake relief and safeguard the lives and health of the people.

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live a normal life within a week.

In September 2023, BNBM carried out the "Building Materials Fair" activity in Zhuozhou, Hebei Province. It formed the "Rural Residence Renewal" team they repaired houses and set up reassuring stores. A series of innovative service activities were carried out to send high-quality building materials and considerate services to villagers. This charity activity for the people of the company has brought gratifying changes to the lives of local villagers with green technology and high-quality building materials products. It has greatly enhanced the beauty and comfort of rural residences. It has enabled many families to live in newly renovated homes before the Mid-Autumn Festival, helping the disaster area to rebuild and ensuring that the villagers can spend the winter warmly.



The Assistance of BNBM to Severely Affected Households in Zhuozhou City Promotes the 'Four Transformations' Service

Shaping a Responsible Brand with Perfect Management

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ıry 2023	When an earthquake occurred in Turkey, Sinoma Overseas Representative Office in Turkey quickly activated the emergency plan, implemented on-site disposal measures, fully participated in the local anti-earthquake and disaster relief actions, helped to coordinate the anti-earthquake and disaster relief matters, and donated various kinds of living materials through the Disaster and Emergency Management Authority (AFAD) in batches for many times.
:2023	 When the flooding in Zhuozhou, Hebei Province was serious. Beijing New Building Material (Group) Co., Ltd., urgently carried out flood self-rescue and resuming work and production, gave full play to the advantages of the building materials industry and actively participated in the post-disaster reconstruction of Zhuozhou, opening a channel for product and service delivery, which guaranteed that the best products and service could be delivered to people in need as soon as possible with the lowest price to help the reconstruction of their homes. Wangqing County, Yanbian Chaoxianzu (Korean) Autonomous Prefecture was affected by a typhoon and resulted in flood, and Wangqing Northern Rescue Team responded to the "flood" and quickly deployed manpower and material resources to participate in road and river embankment reinforcement and rescue work, and cooperated with the government to dispatch vehicles to transport 31 cars of stones to successfully seal the breach.
ber 2023	When a 6.2 magnitude earthquake struck Jishishan County, Linxia Prefecture, Gansu Province in the middle of the night, CNBM responded positively to the call for assistance to the disaster area, and donated RMB 10 million to Jishishan County at the first time to support the anti-earthquake and disaster relief work.

BNBM: Innovate the service model and help households severely affected by disasters in Zhuozhou City to



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16 PLACE LISTICE AND STRONG INSTITUTIONS

Shaping a Responsible Brand with Perfect Management

As a responsible state-owned enterprise of a large country and one of the first stateowned capital investment companies, CNBM carries out the spirit of General Secretary Xi Jinping's series of important speeches on social responsibility, and implements the policy guidelines of the State-owned Assets Supervision and Administration Commission of the State Council (SASAC) on the fulfillment of social responsibility by central enterprises. CNBM has always been committed to playing an exemplary leading role in fulfilling social responsibility and promoting harmonious social development. It will strengthen the top-level design of social responsibility, enhance its own social responsibility capacity building, strengthen communication among stakeholders, promote the deepening of social responsibility practice, build an influential social responsibility brand, and promote the sustainable development of itself and society.

Beijing New Building Materials (Tanzania) Co., Ltd. "Smart Use of Resources Day"





CNBM

in the "Top 10 of the 2023 Top 100 State owned Enterprises Social Responsibility Development Index"

Organizing or participating in social responsibility activities

4,669

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Carrying out social responsibility assessment or evaluation

267

Communication between internal and external stakeholders participated by senior leaders of enterprises

15,118

Building a Powerful Country

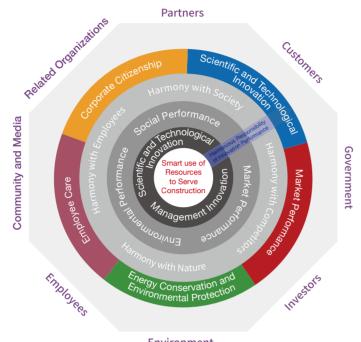
Concept of Responsibility

CNBM pays great attention to the demands of investors, governments, employees, customers, partners, related organizations, communities and media, the environment and other stakeholders. We adhere to the core concept of "Making Good Use of Resources and Serving Construction", and insist on harmony with competitors, nature, employees and society. And we finally implement the concept of social responsibility in market performance, scientific and technological innovation, energy conservation and environmental protection, employees care and corporate citizenship, and is committed to the pursuit of a win-win situation for the market, the environment and the society.

Responsibility Planning

CNBM adheres to the combination of fulfilling social responsibility and promoting enterprise development, bases its actual situation, and regards the fulfillment of social responsibility as an important content of establishing a modern enterprise system and improving comprehensive competitiveness. We will also change our development mode, accelerate transformation and upgrading, and pursue the organic unity of strategic development and taking responsibility. We will integrate the concept of social responsibility into our corporate strategy, cover all aspects and processes of corporate management, focus on key points, advance step by step, strive for effectiveness, and promote the highquality development of the enterprise.

Social Responsibility Model of China National Building Material Group Co., Ltd.



Environment

Value of Responsibility

- Deepening the concept of responsibility Deepening the integration of responsibility and business management Deepening the mechanism for employee
- responsibility fulfillment

Responsibility Communication

- Strengthening communication with stakeholders
- Creating an influential and sustainable responsible brand Developing rich responsibility theme
- activities Creating a normalized responsibility
- communication platform with stakeholders

Responsibility Management

- Strengthening the top-level design of
- social responsibility
- Improving the organizational system of
- social responsibility management Strengthening the training of social
- responsibility talents
- Improving the performance evaluation of social responsibility

Responsibility Sharing

- Enriching the social responsibility management platform
- Developing social responsibility
- benchmarking
- Strengthening research on responsibilities Strengthening external publicity
- Promoting the CSR report preparation of member enterprises

Responsible Organization

CNBM consolidates and improves the leading organization and working mechanism for social responsibility, and promotes the Group's social responsibility work from top to bottom. By the end of 2023, 217 member enterprises had set up leading organizations for social responsibility work, 617 member enterprises had set up social responsibility management organizations, 627 member enterprises had set up social responsibility management positions, and a total of 1,434 full-time and part-time employees were equipped for social responsibility management.

Capacity

Organizing or participating in social responsibility activities

Digital Reading · 2023

4.669

Employees attend annual social responsibility training



Carrying out social responsibility assessment or evaluation





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People's Well-being with

ible Brand with Perfect Manager

Social responsibility work promotion leading group	Headed by the Chairman to lead and promote the social responsibility work of the Group
The headquarters functional organization for social responsibility management	Based on it, we have guided and promoted member enterprises to strengthen social responsibility management and actively fulfill their social responsibilities.
Member enterprises at all levels	In accordance with the unified requirements of headquarters, we have clarified the functional departments, appointed managers, and implemented the fulfillment of responsibilities.

Responsibility

China National Building Material Group Co., Ltd. (CNBM) has continued strengthening responsibility capacity building, the Social Responsibility Management Information System has operated stably and achieved online management of personnel and information. We have continued participating in internal and external social responsibility training and exchanges, and enhanced our capacity for social responsibility management and practice.



participating in the

On September 25, 2023, Party Committee Secretary and Chairman Zhou Yuxian was invited to attend the release of the Belt and Road ESG Action Report activity and delivered a keynote speech and forum dialogue

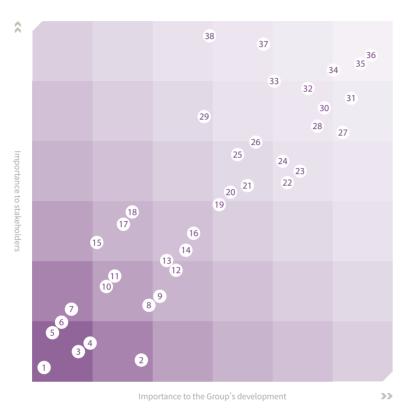


Building a Powerful Country

Responsibility Issues

Based on authoritative social responsibility standards at home and abroad, government policy requirements, benchmarking with advanced enterprises, combined with the company's development plan, China National Building Material Group conducts external environment scanning and internal operation analysis, sorts out domestic and international standard requirements and corporate social responsibility practices, and determines annual core issues based on the actual communication situation between stakeholders; issues are ranked in order of importance to stakeholders and importance to the company's sustainable development; the annual core issues are comprehensively concluded and the issue matrix is drawn.

Social Responsibility Planning of CNBM



- Overseas Community Co-construction
- Information Disclosure
- Community Integration
- Communication with Stakeholders
- Public Charity

2 3

4

5

- Rural Revitalization 6 7
- Green Office and Environmental Public Welfare Activities
- 8 Advocating Sustainable Consumption
- 9 Promoting Industry Development
- 10 Democratic Management
- 11 Responsible Procurement
- 12 Overseas Development and International Cooperation
- 13 Supply-side Structural Reform
- 14 State-owned Enterprise Reform
- 15 Intelligent Manufacturing 16
- Development of New Materials Industry
- 17 Transformation of Scientific and Technological Achievements
- 18 Mechanism for Customer Complaint Resolution

Responsibility Communication

China National Building Material Group Co., Ltd. pays close attention to the expectations and demands of investors, government, employees, customers, partners, relevant groups, communities, media, environment and other stakeholders, and conveys corporate responsibility information through various forms such as the annual social responsibility report, the official WeChat account, the "Social Responsibility" section of the official website and the "Smart Use of Resources Days" open activities, strengthen information disclosure. We strive to maintain

good communication and contact

with various stakeholders, respond to

public concerns in a timely manner,

pass on the concept of responsibility

culture, listen to the opinions and

suggestions of stakeholders, and

continuously improve the ability

of responsibility communication

in the virtuous circle of disclosurecommunication-promotion, so as to improve the public's awareness and

recognition of CNBM.



for 4 consecutive years.

stakeholders 142,177

15.118

Group: The fourth "Smart Use of Resources Day" open event became extremely popular

On August 25, 2023, CNBM successfully held the launching ceremony of the fourth "Smart Use of Resources Day" open event. The theme of the open event is "Walking together for win-win cooperation". Organized by Sinoma International under the group, through various activities such as exhibitions, unveiling of assistance funds, releasing international promotional videos and new books, commending the most beautiful overseas employees, and artistic performances, it has comprehensively demonstrated the excellent international image of CNBM in participating in the construction of the Belt and Road, fulfilling the mission of "Materials create a better world" and fulfilling the responsibilities of global citizens.



- Responsible Supply
- Concept of Responsibility
- Green Products
- Cultivation of Innovative Talents
- Environmental Management
- Employee Training
- 27 28 Supply Chain Management
- 29 Corporate Governance System
- Risk Management and Control 30
- 31 Green Production
- 32 Strengthening Party Building and Anti-corruption
 - Innovation Management
 - Safe Operation
 - Law-based Corporate Governance
 - High-quality Development
 - Quality Management Credit Management
- 37 38

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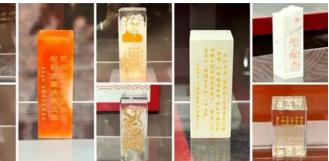
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25

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Ninety-six enterprises in seven countries opened simultaneously. More than 1.3 million people watched the global live broadcast.

People's Well-being with



CNBM New Material Seal Engraving Stamp participated in the Seal Series Public Engraving Exhibition





Building a Foundation for Excellent Operations

Responsibility Sharing

Action · 2023

- We recognize and abide by the "Ten Principles of the Global Compact" and actively contribute to the achievement of sustainability.
- promote the development of social responsibility in China.
- Responsibility 100 Forum.
- development.

Driving Development of Supply Chain

We insist on win-win development and are committed to joining hands with stakeholders to make progress together, deepen mutual benefits in areas such as green economy, intelligent manufacturing, new infrastructure, new materials and globalization, strengthen central-local co-operation, national co-development and integration between China and foreign countries, and actively seek to maximize the coefficient of interests for development, so as to create a new situation of mutually beneficial and win-win co-operation.

fulfillment rate 99.4

1.066

58,621

463

Stakeholders	Communication mode	Focus	Response
Investors	 Periodic reports Corporate report Promotion activities Shareholder dialogue and feedback New media and network platform interaction 	 Enterprise performance Interests of shareholders and creditors Authenticity, accuracy, timeliness and completeness of information disclosure Sustainability of development 	 Sustainable high-quality management Perfect information disclosure mechanism Improve the value of enterprise Standardize corporate governance Protect the interests of investors
Government	 Publication of laws and regulations Special reports and visits Information submission Assessment of work objectives Industry Association 	 Corporate Governance Safety, Environmental and Compliance Requirements Secure supply Provide employment opportunities Drive development of local economy Response to climate change 	 Operate in accordance with the law and implement national policies Sustainable high-quality management Tax Payment Provide jobs Adhere to green manufacturing
Customers	 Customer meetings and consultation Market research Daily contact Customer feedback mechanism Telephone service New media and network platform interaction Product packaging information 	 Enterprise credit Customer relationship Quality of products and services Product innovation Health and Safety 	 Provide high-quality products and services Advocate green consumption Improve quality management Protect customers' privacy Launch scientific and technological innovation Advocating Sustainable Consumption Standardized safety and environmental protection management
Partnership	 Contract negotiation Bidding conference High-level meeting Document, correspondence and telegrams Daily business communication New media and network platform interaction 	 Price and prompt payment Long-term partnership Profit distribution Information resource sharing Credit and reciprocity Risk prevention 	 Credit Management Promote suppliers' responsibility performance Establish an effective partnership Establish an effective communication mechanism
Employees	 Employee Congress Publicity of factory affairs Labor contract Rationalization proposals Normal communication Letters and visits New media and network platform interaction 	 Enterprise performance Corporate Governance Employee Rights and Interests Career development planning Complaint handling Occupational health Democratic management Publicity of factory affairs 	 High-quality Management Protect employees' rights and interests Provide competitive salary Improve employee welfare Strengthen employee training Provide safe working environment and health protection Establish effective communication Democratic management
Communities and Media	 Sign public welfare agreements Participate in volunteer activities Daily contact Open day Activities Media interview New media and network platform interaction 	 Planning affairs Environmental protection and response to climate change Joint construction of a harmonious community Occupational safety and health 	 Establish and improve safety and occupational health management system Increase investment Timely information disclosure Improve public welfare investment Participate in community activities Promote green production and protect ecological environment
	 Regular participation in meetings or activities Daily contact New media and network platform interaction 	 Environmental conservation Promote sustainable development jointly 	 Play membership role Provide economic and technical support Establish a cooperative relationship

74 CNBM

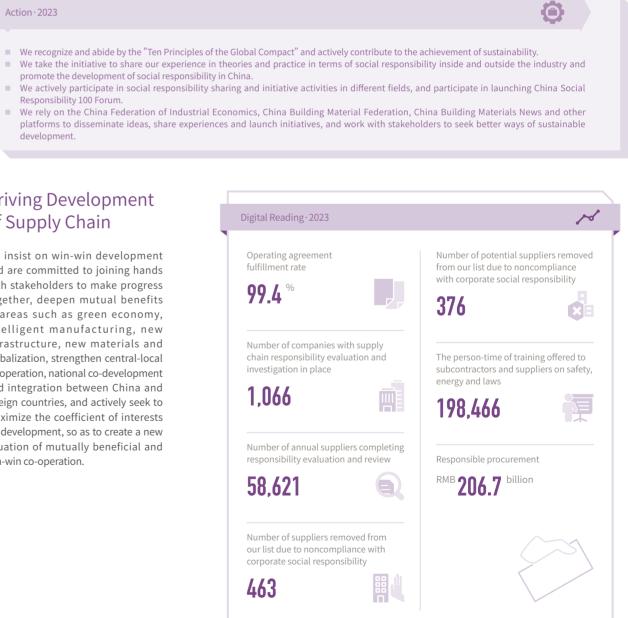
People's Well-being with a Beautiful Society

ible Brand wit Responsible Brand w Perfect Management

Guided by Responsibility

We actively respond to the policy guidance of the State-owned Assets Supervision and Administration Commission of the State Council on fulfillment of social responsibility by enterprises, and consciously take responsibility for stakeholders, society and the environment throughout the operation, so as to maximize the integrated value of the economy,

society and environment and promote sustainable development; At the same time, the Group actively participates in global environmental protection exchanges and cooperation initiatives, provides wisdom and solutions for building a better home for mankind, and demonstrates the responsibility of a state-owned enterprise in the process of globalization.



Supplier Management

- CNBM procurement platform is a comprehensive service platform integrating bidding, purchasing and sales, providing supply chain enterprises with procurement sourcing and full-process electronic procurement services, with 100,000+ high-quality suppliers in the building materials industry and 4,000+ registered bid evaluation experts.
- Strengthen the supplier management, strictly select suppliers and cultivate high-quality suppliers, incorporate social responsibility into the supplier evaluation system, and urge suppliers to take social and environmental responsibilities
- The Platform strictly prevents "black-box operation" in bidding, eliminates commercial bribery and enables honest operations, fair trading and transparent procurement by promoting the integration of e-bidding and e-purchasing, standardization of the bidding process, transparency of the bidding performance and informatization of the bidding management.



Green procurement

excessive packaging.

Adhere to green procurement and give preference to environmentally friendly products when purchasing raw materials and clean products when purchasing energy. When purchasing daily offices, we give preference to recyclable products and reject

High-quality Service

We are committed to supplying reliable, green and environmentally friendly building materials, focusing on providing products and service support for the development of the new energy industry, adhering to the concept that the interests of the industry are higher than those of enterprises, deepening the supply-side structural reform, so as to promote the structural adjustment, transformation and upgrading of the building materials industry. and cooperate with industrial chain enterprises in building CNBM into a platform for stakeholders to jointly create values.

100 [°]

certification

733

training

111.728

International logistics products: Connect end to end in the whole supply chain and achieve interconnection.

As an organizer, manager and service provider in the material distribution supply chain, International Products actively fulfills the responsibilities of central enterprises. It has tailor-made a full-link digital platform in the material distribution field - the "YangCaiTong" supply chain service platform that integrates project management, contract management, supply chain management, risk management and financial management for enterprises upstream and downstream in the material distribution supply chain. As a core role, "YangCaiTong" simplifies the traditional supply chain service process by relying on open and leading technologies. With the platform architecture of "one portal (collaborative portal), two middle platforms (logistics middle platform and data middle platform), and three centers (decision-making center, risk control center, and capital center)", it comprehensively empowers upstream and downstream partners. In the process of platform construction, four supporting products of "YangCaiTong Collaboration, YangCaiTong Transportation, YangCaiTong Control and YangCaiTong Finance" are gradually created to achieve the goal of "gathering resources, strengthening control, reducing risks, creating models and increasing value" of the YangCaiTong platform.



Create trusted products and services

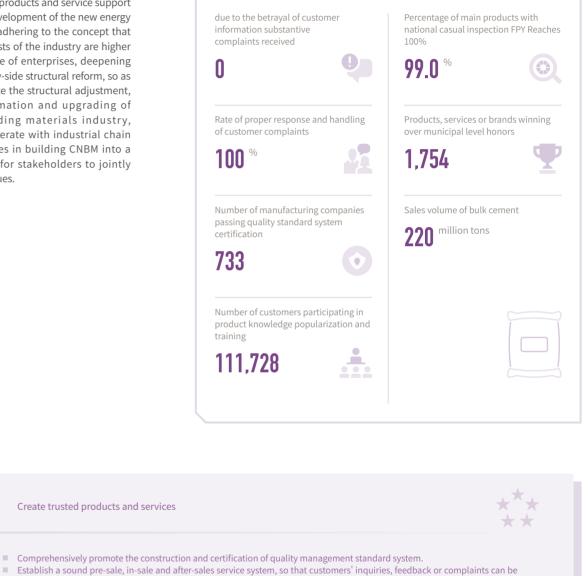
- responded to and properly handled in the first time to improve customer satisfaction.
- Organize customer training conferences and product promotion briefing to convey basic knowledge of green building materials, precautions for purchasing and using building materials products, and product anti-counterfeiting identification to customers
- Attach importance to information security, pay attention to protecting customer privacy, and strictly manage customer information
- Establish a modern logistics park, rationally plan supply and marketing and logistics solutions, reduce resource occupation, and improve sales efficiency.
- Build an online sales platform to provide online trading services for building materials products worldwide and reduce carbon emissions from business travel of customers and sales personnel.

People's Well-being with

Perfect Manager

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Establish a professional customer service team and regularly provide professional technical training for dealers.

Honor of Responsibility



Affiliated unit

- China National Building Material Company Limited, Tianshan Material Co., Ltd., BNBM, China Jushi, Sinoma Science & Technology, and Sinoma International were selected into the "2023 Comprehensive Strength Ranking of Global Listed Building Materials Companies".
- China National Building Material Company Limited was awarded the title of "Pacesetter Enterprise in China's Industrial Carbon Peaking in 2023".
- China National Building Material Company Limited was awarded the title of "Outstanding Issuer of Corporate Bonds" by the Shanghai Stock Exchange.
- China National Building Material Company Limited, BNBM, China Jushi and Sinoma International were selected into the "Central Enterprise ESG+Pioneer 100 Index" list.
- Enhancing the Ability of Sustainable and High-Quality Development and Striving to Build a World-Class Materials Enterprise of China National Building Material Company Limited was selected as an ESG outstanding case.
- China National Building Material Company Limited was selected into the first Sustainable Development Yearbook (China Edition) of SPGl and was commended as the "Best Progressive Enterprise in the Industry".
- China National Building Material Company Limited and BNBM were selected into the "China ESG Listed Company Pioneer 100" list.
- China National Building Material Company Limited won seven awards including the best environment, society and governance in the basic raw materials sector of "2023 Asia' s Best Management Teams" by Institutional Investors

- Ten reform achievements of China National Building Material Company Limited and its affiliated companies won the 2023 Outstanding Achievements in China's Enterprise Reform and Development.
- China National Building Material Company Limited won the awards of the "Best Capital Market Communication" and the "Best Cutting-edge Company of the Year" in the 7th China Excellence IR Awards.
- The project of *Building a Closed-Loop Management System of Large* Compliance Supervision Focusing on Risk Prevention and Control for Building Materials Enterprises of China National Building Material Company Limited won the second prize of the "29th National Enterprise Management Modernization Innovation Achievement".
- China Jushi, Sinoma Science & Technology, BNBM and Sinoma International were selected into the "2023 Top 500 Creditworthy Listed Companies in China".
- China Jushi was selected into "Top 50 Chinese Enterprises in Transnational Operations" list of Forbes China.
- Sinoma International was awarded the title of "2023 Five-Star Creditworthy Enterprise".
- BNBM was selected into the "Top 100 Value of Listed Companies on the Main Board" in the 17th China Listed Company Value Selection by China Securities Journal.
- BNBM was selected into the "Top 100 Health Index of Listed Companies in China" list

- BNBM, China Jushi, and Sinoma Science & Technology won the "Most Investment-Worthy Award of Golden Bull Award" for the 25th listed companies.
- BNBM and China Jushi were selected as the benchmark enterprises for the state - owned key enterprises of the State - owned Assets Supervision and Administration Commission of the State Council to benchmark against world - class management improvement actions.
- BNBM won the highest award in the sustainable development series of the 2023 Changqing Award of Caijing Magazine, the "Sustainable Development Contribution Award".
- BNBM and China Jushi were selected into the "2023 Top 100 ESG Listed Companies in China" list.
- BNBM and Sinoma Science & Technology were selected into the first "Guoxin Cup + ESG Golden Bull Award Top 50 Central Enterprises" list.
- BNBM. China Jushi and Sinoma International were selected into the "CSI Guoxin State-owned Enterprises ESG Growth 100 Index" list.
- Deeply Implementing the ESG Concept and Leading the High-Quality Development of the New-type Building Materials Industry of BNBM and Green Fiber First for Harmonious Development and Building a Demonstration Enterprise for Green Glass Fiber Production of China Jushi were selected into the "2023 Outstanding ESG Cases of Chinese Enterprises".
- Tianshan Material Co., Ltd. was selected into the "2022 Top 50 Sustainable Industrial Enterprises" list of Forbes China.

People's Well-being with

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We will not stop struggling even in hardships and will set off again with heavy will continue to adhere to the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, fully implement the spirit of the 20th National Congress of the CPC, adhere to the general tone of seeking progress while maintaining stability, fully and accurately implement the new development concept, unswervingly push forward the new type of industrialization, make great efforts to develop the new quality productive forces, enhance our core functions and core competitiveness, consolidate three main businesses and four major sectors, and speed up the construction of a world-class materials industry investment group. We will make greater contributions to the comprehensive construction of a modern socialist country and the great rejuvenation of the Chinese nation!

We will adhere to the principle of giving priority to quality and efficiency, and endeavor to achieve steady growth with high quality. We will make active progress in transforming methods, adjusting structures, improving quality and increasing efficiency, so as to achieve effective qualitative improvement and reasonable quantitative growth.

in improving quality and efficiency.

We will adhere to a high level of scientific and technological self-reliance and promote industrial innovation with scientific and technological innovation. We will accelerate the promotion of productivity leaps stemming from scientific and technological innovation breakthroughs and industrial upgrading.

We will adhere to strive from two ends, integrate in advancing and retreating, every effort to develop strategic emerging industries, unswervingly promote the transformation of traditional industries, give full play to the advantages of state-owned capital investment companies, and accelerate the pace of integration in

more dynamic modern new state-owned enterprise. We will continue to intensify reforms, deepen value creation, and further stimulate enthusiasm and creativity

Appendix

Responsibility performance

Market performance

Ranking of Fortune Global 500 Building Materials Enterprises in 2024

Ranking in 2024	Enterprise Name	Operating Income in 2023 (One million US dollars)	Country
307	CNBM	49088.8	China
284	Saint-Gobain Group	51830.3	France
443	CRH Corporation	34949	Ireland

Data source: Fortune Chinese website

Output of Cement from 2013 to 2023	Unit: 100 million tons	
Year	Output of Cement	
2023	2.9	
2022	3.0	
2021	3.5	
2020	3.5	
2019	3.7	
2018	3.4	
2017	3.4	
2016	3.2	
2015	2.4	
2014	2.5	
2013	2.4	

Total Operating Income and Profit from Unit: RMB 100 million 2013 to 2023

Year	Operating Income	Total Profit	
2023	3475.1	168.6	Ī
2022	3801.6	265.8	
2021	4155.1	386.9	
2020	3941.0	306.1	Ī
2019	3981.0	235.2	Ī
2018	3480.0	206.6	
2017	3021.2	151.1	
2016	2612.3	75.8	Ī
2015	1992.5	38.4	
2014	2504.3	130.1	i
2013	2522.6	115.1	

Unit: %

Rate of Preservation and Appreciation of State-owned Assets and Rate of Return on Net Assets from 2013 to 2023

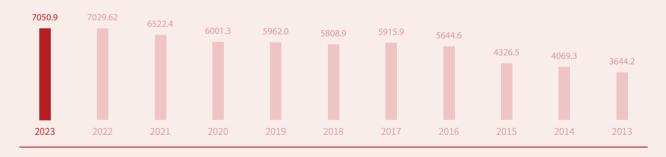
Rate of Preservation and Appreciation of State-owned Assets Return on Net Assets



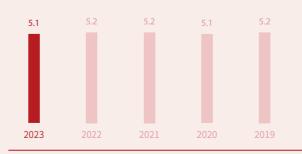
Performance of Listed Companies in 2023

Stock Name	Stock Exchange	Stock Code	Dividend per Share	Earnings per Share
China National Building Material Company Limited	Hong Kong Stock Exchange	03323.HK	0.2290	0.4580
Tianshan Material Co., Ltd.	Shenzhen Stock Exchange	000877.SZ	0.1140	0.2268
Ningxia Building Materials Group Co., Ltd.	Shanghai Stock Exchange	600449.SH	0.2500	0.6200
China Jushi Co., Ltd.	Shanghai Stock Exchange	600176.SH	0.2800	0.7600
Beijing New Building Material (Group) Co., Ltd.	Shenzhen Stock Exchange	000786.SZ	0.8350	2.0860
Sinoma Science & Technology Co., Ltd.	Shenzhen Stock Exchange	002080.SZ	0.5600	1.3300
Sinoma International Engineering Co., Ltd.	Shanghai Stock Exchange	600970.SH	0.4000	1.1200
Zhongfu Shenying Carbon Fiber Co., Ltd.	Shanghai Stock Exchange	688295.SH	0.1060	0.3500
Ruitai Technology	Shenzhen Stock Exchange	002066.SZ	0.1000	0.3152
China Certification and Inspection Group	Shanghai Stock Exchange	603060.SH	0.1120	0.3204
Triumph Science & Technology Group Co., Ltd.	Shanghai Stock Exchange	600552.SH	0.0500	0.1135
Triumph New Energy Company Limited	Shanghai Stock Exchange	600876.SH	0.0000	0.6100
Triumph New Energy Company Limited	Hong Kong Stock Exchange	01108.HK	0.0000	0.6100
Sinoma Energy Conservation Ltd.	Shanghai Stock Exchange	603126.SH	0.0830	0.2349

Total Assets from 2013 to 2023



Production Capacity of Cement from 2013 to 2023





Unit: Yuan







Scientific and technological innovation



Unit: (in number)

Unit: (in number)

Energy conservation and environmental protection

It won science and technology awards at	Unit: (in number
or above the provincial or ministerial level from 20	13 to 2023

Year	Science and technology awards at or above the provincial or ministerial level	Including: National Science and Technology Progress Award
2023	247	4
2022	166	0
2021	116	1
2020	109	0
2019	166	3
2018	231	1
2017	197	2
2016	173	2
2015	123	0
2014	117	1
2013	145	1

or revision o	or revision of standards from 2013 to 2023			
Year	Total Number of Standards	Including: International	Including: Country	Including: Industry
2023	44	3	20	21
2022	169	10	82	77
2021	130	4	84	42
2020	74	3	39	32
2019	88	0	52	36
2018	167	4	90	73
2017	122	4	90	28
2016	91	2	57	32

It hosted and participated in the formulation

Application and Authorization of Patents Unit: (in number) from 2013 to 2023

Year	Newly Applied Patents	Including: Invention Patents	Newly Authorized Patents	Including: Invention Patents
2023	5550	2531	4137	1358
2022	5978	2601	4911	1319
2021	4004	1820	3745	747
2020	4436	1821	2576	532
2019	3308	1638	1804	478
2018	2287	1056	1571	385
2017	2144	1039	1524	428
2016	2156	880	1793	455
2015	1568	566	1492	193
2014	1571	531	1381	106
2013	1262	373	848	128

Expenditure on Scientific Research Activities from	Unit: hundre
2013 to 2023	millio

Year	Expenditure on Research and Experimental Development
2023	136.3
2022	149.0
2021	147.2
2020	119.1
2019	95.9
2018	81.9
2017	59.3
2016	51.2
2015	40.9
2014	41.6
2013	36.2

and the second second	Deterrete	£	2012	1	000

Accumulated Patents from 2013 to 2023

Number of Accumulated Including: Year Invention Patents Patents

2013-2023 Income from scientific	Unit: hundred mil
and technological innovation	

Year	Income from scientific and technological innovation	Sales Revenue of New Products
2023	60.3	918.9
2022	39.0	850.6
2021	34.7	810.6
2020	35.2	754.7
2019	28.4	577.6
2018	30.1	555.9
2017	16.6	468.5
2016	15.7	339.0
2015	11.5	256.5
2014	8.8	289.9
2013	10.3	259.4

of Output Value per Te from 2013 to 2023
2023
2022

Comprehensive Energy Consumption	Unit: Tons of standard
of Output Value per Ten Thousand Yuan	coal/ten thousand yuan
from 2013 to 2023	

2023	1.19	
2022	1.21	
2021	1.29	
2020	1.38	
2019	1.30	
2018	1.46	
2017	1.74	
2016	2.01	
2015	2.	11
2014	2.03	
2013	2.04	

Comprehensive Energy Consumption per Ton of Cement from 2013 to 2023

Unit: Kilograms of standard coal/ton

2023	64.82
2022	68.58
2021	70.43
2020	71.59
2019	73.55
2018	74.14
2017	72.91
2016	74.04
2015	66.55
2014	64.45
2013	63.53

Disposal and Utilization Performance of Solid Waste from 2013 to 2023

Year	Consumption of Solid Waste (ten thousand tons)	Disposal Rate of Self-produced Solid Waste (%)
2023	10497	96.4
2022	10360	96.8
2021	13121	96.3
2020	17880	91.7
2019	14967	99.9
2018	9900	92.8
2017	15615	99.0
2016	14909	88.6
2015	7545	98.5
2014	7882	98.0
2013	6191	99.2



Unit: kg/ten Emissions of SO₂ and COD with Output Value thousand yuan of Ten Thousand Yuan from 2013 to 2023

Year	SO ₂ Emission with Output Value of Ten Thousand Yuan	COD Emission with Output Value of Ten Thousand Yuan
2023	0.26	0.03
2022	0.27	0.05
2021	0.33	0.04
2020	0.42	0.04
2019	0.62	0.03
2018	1.09	0.03
2017	1.07	0.03
2016	1.60	0.05
2015	1.46	0.06
2014	1.36	0.06
2013	1.39	0.07

Emission of Nitrogen Oxides per Ton of Cement Clinker from 2012 to 2022

Unit: Kilogram/ton



Utilization Performance of Water Resources from 2013 to 2023

Year	Consumption of Fresh Water with Output Value of Ten Thousand Yuan (ton/ ten thousand yuan)	Consumption of Fresh Water per Ton of Cement Clinker (ton/tons of cement clinker)	Utilization Rate of Circulating Water (%)
2023	5.5	0.38	96.79
2022	5.4	0.37	95.6
2021	5.4	0.53	97.8
2020	5.3	0.49	95.1
2019	3.6	0.34	90.0
2018	7.9	0.45	90.8
2017	7.1	0.51	96.2
2016	6.2	0.38	93.7
2015	7.2	0.46	93.5
2014	6.2	0.41	90.3
2013	8.0	0.41	96.4

Employee Care

Employee Profile from 2013 to 2023				Unit: people	
Year	Total number of employees	Foreign and Hong Kong, Macao and Taiwan employees	Employees whose ethnicity is ethnic minority	Employees with disabilities Employees	Proportion of Female Employees in Management (%)
2023	207784	1638	6800	992	19.1
2022	208857	965	7511	1340	17.6
2021	206910	881	6199	1478	17.9
2020	202844	1036	5725	1731	16.9
2019	204763	483	5808	1729	16.2
2018	208680	1059	5167	1697	18.7
2017	221421	750	5985	1732	18.4
2016	234511	1126	5964	1875	18.3
2015	176610	841	3521	1449	17.2
2014	176854	892	3120	2263	18.4
2013	179421	1234	3031	1685	18.1

Coverage of Labor Contracts and Social Insurance and Membership of Trade Union from 2013 to 2023

Year	Labor contract coverage	The rate of social insurance coverage	The proportion of employees participating in the trade union
2023	100	100	89
2022	100	100	84
2021	100	100	84
2020	100	90	78
2019	100	92	78
2018	100	90	78
2017	100	98	92
2016	100	98	91
2015	100	98	91
2014	93	88	70
2013	96	92	75

Training Performance of Employees from 2013 to 2023

Employee Participation

in Training (ten thousand hours)

196

185

250

215

137

485

112

91

Number of Academic Degrees Obtained by

On-the-job Employees with Support

2279

1944

2431

2628

1679

1424

3028

2882

3520

2387

Number of Training Programs Organized

or Organized to Attend

69398

87920

77120

84771

107787

75187

52676

47554

43352

Year

2023

2022

2021

2020

2019

2018

2017

2016

2015

2014

Unit: %

Progress of Enterprise Annuity Work from 2013 to 2023

Year	Number of Member Enterprises Participating in Enterprise Annuity Numbers	Number of Employees Participating in Enterprise Annuity
2023	619	114385
2022	588	109323
2021	580	104210
2020	531	95554
2019	207	56174
2018	100	35644
2017	74	24093
2016	71	22871
2015	68	22165
2014	67	21750
2013	67	21131

2013	67	21131	2013	37491	164	
Investment i	n occupational health and sa	fety Unit: ten thousand	Performance i	n Safety Produc	tion from 2013 to	2023

from 2	013 to 2023	3					yuai
2023							220000
2022					1600	000	
2021					162	000	
2020					151500		
2019			12	3697			
2018			108357				
2017		87032					
2016		79527					
2015	57249						
2014	43221						
2013	31363						

Year	Accident Rate of Work-related Injuries of Thousands of People That Can Be Recorded (%)	Number of New Cases of Occupational Diseases
2023	0.2	0
2022	0.2	0
2021	0.2	0
2020	0.2	0
2019	0.4	1
2018	0.5	1
2017	0.5	2
2016	0.5	0
2015	0.9	3
2014	1.3	2
2013	1.6	1

Cor	nora	tizens	hin
001	pora	120113	III P

Social Welfare Expenditure from 2013 to 2023 Unit: ten thousand yuan

2023			10996
2022			14157.7
2021			14073.8
2020			17332.
2019			14243.9
2018		6291.5	
2017	2335.5		
2016	2400.4		
2015	1802.8		
2014	2080.5		
	2195.1		

Taxes Paid from 2013 to 2023

Unit: RMB 100 million

2023		210.4	
2022			271.7
2021			301.6
2020			290.6
2019			313.8
2018			272.2
2017		196.8	
2016		3	
2015	119.1		
2014	146.4		
2013	131.7		

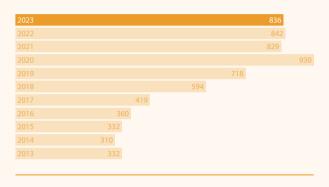
Student Loans from 2013 to 2023

Year	Number of Special Scholarships Established	Total Amount of Scholarships Provided (ten thousand yuan)	Number of Students Awarded or Subsidized Established	Number of Training Bases Created	Study Positions Provided for Students in School (person-day)
2023	17	277	240	57	35540
2022	37	79	174	70	73582
2021	16	109	200	85	37005
2020	20	99	298	128	53145
2019	22	113	284	132	52689
2018	18	73	188	118	45464
2017	14	72	155	163	31519
2016	8	37	266	134	34030
2015	8	36	159	47	26586
2014	31	53	227	97	28619
2013	18	112	506	119	36530



Unit: Item

Number of Social Welfare Projects Supported from 2013 to 2023



Guarantee Employment Performance from 2013 to 2023

Unit: people

Year	Number of Employed People	Including: Number of Fresh Graduates Recruited	Number of Demobilized Soldiers Recruited
2023	50455	3421	26
2022	50243	3067	21
2021	35170	3375	2
2020	22032	3667	24
2019	27763	3890	22
2018	26553	3626	141
2017	29612	4727	139
2016	22342	3129	23
2015	16929	2473	10
2014	23617	3848	46
2013	16081	4383	158

Organization of Volunteer Activities from 2013 to 2023

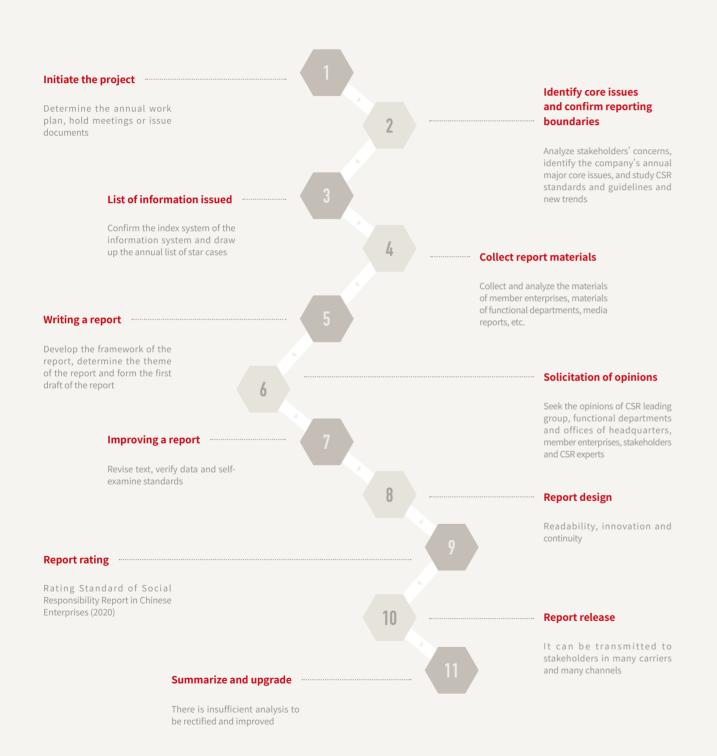
Year	Number of Volunteer Groups Established	Investment to Support Voluntary Activities (ten thousand yuan)	Number of Employee Volunteers	Time of Volunteer Services Provided (hours)
2023	157	129	12668	37908
2022	216	184	10935	63257
2021	221	180	11517	74568
2020	192	190	10121	49220
2019	213	2219	10343	40192
2018	189	126	6853	44445
2017	335	363	5334	25164
2016	112	344	5646	28157
2015	56	191	2187	14840
2014	65	145	3400	9418
2013	109	145	4864	10681

Indicator Index

Catalogue of Report	Sustainable Development Goals (SDGs) of United Nations	GRI Standards of Sustainable Development Reports (GRI Standards)	Guidance on Compilation of Social Responsibility Reports in Chinese Enterprises: Non- metallic Mineral Products Industry (CASS-CSR4.0)
Report Norms	-	102-46, 102-50, 102-52-53	P1.1-1.2
Chairman's Address	-	102-14-1	P2.1-2.2
About Us	-	102-1-2, 102-4-8, 102-16, 102-18, 102-22, 102-24	P4.1-4.3
Responsibility Focus One: Building the "Pillar of the Country" and New Quality Productive Forces	SDG9, SDG12	203-1-2	P3.1-3.2
Responsibility Focus Two: Building a "Belt and Road" Community with a Shared Future	SDG1, SDG4, SDG8, SDG17	203-1-2	P3.1-3.2
	Building a Foundation for Developmen	t with Excellent Operations	
Outstanding Performance	SDG7, SDG9, SDG11, SDG12, SDG17	102-2, 201-1, 203-1-2	P4.2, M1.4
Precision Management	SDG12, SDG16	103-2-3, 201-1	M1.6
Deepening Reform	SDG12, SDG16	103-2-3	M1.1
Guidance of Party building	SDG4	103-2-3, 205-2	M1.2
	Building a Powerful Country in Materi	als with Robust Innovation	
Innovation Ecosystem	SDG9	103-2-3, 201-1	M2.2, M4.4
Achievements of Technological Innovation	SDG9	103-2-3, 203-1-2	M2.2
Collaboration on Innovation	SDG7, SDG9, SDG11, SDG12	203-1-2	M2.2, M2.5
Digital Transformation	SDG9, SDG17	103-2-3, 203-1-2	M2.2, M4.4
	Creating a Sustainable Future wit	h Optimal Ecosystems	
Green Management	SDG16	103-2-3	E1.1-1.2
Green Production	SDG7, SDG9, SDG11, SDG12, SDG13, SDG17	103-2-3, 203-1-2, 302-5, 303-3	E1.3-1.5, E1.9, E2.1, E2.2-2.3, E2.6, E2.8-2.9, E2.11, E2.14, E2.16, E2.18, E2.20-2.22, E3.1, E3.4-3.5
Green Services	SDG7, SDG9, SDG11, SDG12, SDG13	103-2-3	E1.5, E1.9
Green Operation	SDG4, SDG11, SDG12	103-2-3	E1.7-1.8, E3.8

Catalogue of Report	Sustainable Development Goals (SDGs) of United Nations	GRI Standards of Sustainable Development Reports (GRI Standards)	Guidance on Compilation of Social Responsibility Reports in Chinese Enterprises: Non- metallic Mineral Products Industry (CASS-CSR4.0)
	Helping Employees' Growth with	Sincere Development	
Safety and Prudence	SDG4, SDG9	103-2-3, 203-1-2	S3.1-3.6
Employee Rights and Interests	SDG5, SDG8, SDG10	103-2-3, 102-8, 401-1, 405-1	S2.1-2.2, S2.4-2.8
Employee Development	SDG8	103-2-3, 404-2	S2.12-2.14
Employee care	SDG8	103-2-3	S2.9-2.10, S2.15-2.16
	Improving People's Well-being w	ith a Beautiful Society	
Open Cooperation	SDG17	103-2-3, 203-1-2	M4.4, M4.6
Rural Revitalization	SDG1, SDG2, SDG3, SDG4, SDG6, SDG9, SDG10	103-2-3	S4.1, S4.5, S4.10-4.11
Good Deeds	SDG4, SDG8, SDG9, SDG10	103-2-3	S4.1, S4.7-4.9
	Shaping a Responsible Brand with	n Perfect Management	
Concept of Responsibility	-	-	G1.2
Responsibility Planning	-	-	G2.2
Responsible Organization	SDG17	-	G3.1, G3.3
Responsibility Capacity	SDG4	-	G5.1-5.2
Responsibility Issues	SDG16	-	G2.1
Responsibility Communication	SDG16	102-40	G4.3, G6.1
Responsibility Sharing	SDG16	102-13	M2.7-2.11, M3.1, M3.4, M3.6, M4.2
Honor of Responsibility	-	-	A3
Future	-	-	A1
	Appendix		
Responsibility performance	-	-	A2
Indicator Index	-	102-55	A5
Reporting Process	-	-	P1.1
Rating Report	-	-	A4
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Reporting Process



Report Rating

Rating Report of 2023 Sustainable Development Report in China National Building Material Group Co., Ltd.

Entrusted by China National Building Material Group Co., Ltd., experts were selected from "Rating Expert Committee for Social Responsibility Report in Chinese Enterprises" to form a rating team to rate the 2023 Sustainable Development Report of China National Building Material Group Co., Ltd. (hereinafter referred to as the "Report").

I. Rating Basis

Guidelines on Social Responsibility Reports in Chinese Enterprises (CASS-CSR 4.0) of Chinese Academy of Social Sciences and Rating Standard for Social Responsibility Reports in Chinese Enterprises (2020) by "Rating Expert Committee for Social Responsibility Report in Chinese Enterprises".

II. Rating Process

 The rating team reviews and confirms the Confirmation of Procedural Data of Corporate Social Responsibility Report and relevant certification materials submitted by the Writing Team of the Report;

The rating team evaluates the preparation process and content of the Report and formulates the rating report;

3. The vice chairman of the rating expert committee, the leader of the rating team and the experts of the rating team jointly sign and review the rating report.

III. Rating Conclusion Procedure (★★★★)

Set up a leading group for promoting social responsibility work with the chairman as the team leader to coordinate and dispatch social responsibility work. The company's management department takes the lead in setting up a report preparation working group, key departments submit basic information and review relevant contents, and the chairman and general manager are responsible for final review and issuance; position the report as an important tool to prevent business risks, disclose responsibility information in accordance with provisions, strengthen stakeholders' communication, improve the management level of social responsibility, and enhance brand value, with clear positioning in functional values; identify substantive issues according to group development strategies and stakeholder expectations; promote 13 subordinate listed companies to issue social responsibility reports to enhance the depth and breadth of responsibility information disclosure; it is planned to publish the report through the official website, and participate in the "Centralized Press Conference for Social Responsibility Reports in Central Enterprises" and the activity on "Smart Use of Resources Day" for the second release. The report will be presented in the forms of electronic version, printed matter and long layout with excellent process performance.

Substantive ($\star \star \star \star \star$)

The Report systematically discloses key issues in the industry, such as product quality management, product innovation, occupational health management, safety production, research and development and application of environmental protection technologies and equipment, saving energy and water resources, reducing the emission of "three wastes", environmental treatment around the factory area, supply chain responsibility, Internet + non-metallic mineral products, etc., with sufficient details and outstanding substantive performance

Integrity ($\star \star \star \star \star$)

The main content of the Report discloses 93.66% of the core indicators of the industry from the perspectives of "Building a Foundation for Development with Excellent Operations", "Building a Powerful Country in Materials with Robust Innovation", "Creating a Sustainable Future with Optimal Ecosystems", "Helping Employees' Growth with Sincere Development", "Improving People' s Wellbeing with a Beautiful Society" and "Shaping a Responsible Brand with Perfect Management" with outstanding integrity performance.

Balance ($\star \star \star \star \star$)

The Report discloses negative data such as "new cases of occupational diseases", "recorded rate of work-related injuries for over 1,000 people", "substantive complaints due to disclosure of customer information in the year", "number of suppliers whose cooperation has been terminated due to non-compliance with social responsibilities", "major ecological and environmental incidents" and "major work safety accidents", and briefly describes the measures and effects of promoting special environmental protection rectification, with excellent balance performance.

Comparability ($\star \star \star \star \star$)

It is disclosed in the Report that the comparative data of 63 key indicators such as "cement output", "cement production capacity", "operating income",

"cumulative patents", "comprehensive energy consumption per ten thousand Yuan of output value", "consumption of fresh water per 10,000 yuan of output value", "total employees", "occupational health and safety investment" and "social welfare expenditure" for eleven consecutive years, and a horizontal comparison is made on indicators such as "Ranking of Fortune Global 500 in 2024" with excellent performance in comparability.

Readability ($\star \star \star \star \star$)

From the six chapters including "excellent operations", "robust innovation", "optimal ecosystems", "sincere development", "beautiful society" and "perfect management", the report systematically shows the performance of enterprises in operation and management, scientific and technological innovation, environmental protection, employee care, win-win partners, public welfare and charity, responsibility management, etc.; the high-definition and infectious real-life pictures are adopted across chapters in the cover and chapters to show the characteristic performance scenes and enhance the recognition of enterprises; small sections such as "Digital Reading 2023", "Action - 2023", "Honors - 2023", and "Achievements - 2023" are set up to facilitate readers to quickly understand and master; multiple QR codes are embedded to extend and interpret the report content, showing excellent readability.

Innovative ($\star \star \star \star \star$)

At the beginning of the Report, responsibility focuses such as "Building the "Pillar of the Country" and New Quality Productive Forces'" and "Building a "Belt and Road" Community with a Shared Future" are set up. It presents the key points and highlights of the enterprises' fulfillment of responsibilities in aspects such as technological innovation and participation in the construction of the "Belt and Road", highlighting the responsibility of central enterprises. Subordinate enterprises are actively promoted to compile and release ESG reports, and a multi-form and multi-level report system is built. The effectiveness of corporate responsibility fulfillment is presented in the form of testimonials from stakeholders, strengthening the dissemination and credibility of the report, and showing excellent innovation.

Comprehensive Rating ($\star \star \star \star \star$ +)

According to the evaluation of the rating team, the process, completeness, substantiality, balance, comparability, readability and innovation of 2023 Sustainable Development Report in China National Building Material Group Co., Ltd., have reached five stars and the comprehensive rating is "five-star good". The report is a model in corporate social responsibility report.

中国企业社会责任报告

The Sustainable Development Report of China National Building Material Group has won five-star rating for seven consecutive years and five-star good rating for the fifth consecutive year.

IV. Suggestions for Improvement

Increase the disclosure of key issues in the industry and further enhance the materiality of the report.

Vice Chairman of Committee of Rating Experts

初完五

ZUST,

Leader of Rating Team

Expert of Rating Team



Scan code to view Enterprise rating file

Time to Issue: August 22, 2024

Feedback

Dear Readers,

Hello!

Thank you very much for your concern and support for the social responsibility work of China National Building Material Group. Please fill in the questionnaire below, and we will continue to improve and upgrade in the future work according to your opinions and suggestions.

Your evaluation for the annual sustainable development report of China National Building Material Group is:

 $\label{eq:constraint} \text{Overall evaluation of the report:} \quad \Box \text{ Very good } \quad \Box \text{ Good } \quad \Box \text{ Average } \quad \Box \text{ Poor } \quad \Box \text{ Very Poor }$

Richness of Content: 🗌 Very good 🗌 Good 🗌 Average 🗌 Poor 🗌 Very Poor

Suitability of Page Number: \Box Very good \Box Good \Box Average \Box Poor \Box Very Poor

 $\label{eq:Aesthetic Degree of Design: $$ \Box Very good $$ \Box Good $$ \Box Average $$ \Box Poor $$ \Box Very Poor $$ Uery Poor $$ Uer$

Friendliness of Language: 🗌 Very good 🗌 Good 🗌 Average 🗌 Poor 🗌 Very Poor

In your opinion, the core of China National Building Material Group's responsibilities is:

□ Market performance □ Scientific and technological innovation □ Energy conservation and environmental protection □ Employee Care □ Corporate Citizenship □ Responsibility Management

What aspects of social responsibility management do you think we should further strengthen:

□ Information Collection □ Organization Construction □ Personnel Training □ Performance Evaluation □ External Publicity

🗆 Stakeholder Management 🛛 Public Welfare Planning 🖓 Preparation Level of Annual Report 🖓 Research on Social Responsibility

Others

In what way do you prefer to know our information about responsibility performance:

Paper Report
 Social Responsibility Column of Official Website
 WeChat Official Account
 Professional Social Responsibility Media
 Others

What do you want to see in the annual sustainable development report of China National Building Material Group?

What aspects of China National Building Material Group's performance do you pay more attention to in the future?

Other comments and suggestions?

From what position did you participate in our solicitation of opinions?

Government departments
 Institutional investors
 Medium and small shareholders
 Financial institutions
 Industry associations
 Suppliers
 Customers
 Enterprises in the same industry
 Partners
 CSR professional organization
 Non-profit organization
 News media
 Middle and senior management personnel of the group
 Employees of the group

Others

In order to get contact with you conveniently and respond to your opinions and suggestions in a timely manner, please provide your contact information and relevant information. We will keep it properly and not disclose it to the outside world.

E-mail:

Name:	Occupation:	Institution:
Contact Address:		Post Code:
Talanhana	Fave	





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Designed and produced by:

