



CNBM

China National Building Material Group Co.,Ltd.

SUSTAINABILITY REPORT 2022



Report Norms

This Report is the fourteenth 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, 2022. Some of the content goes beyond the above period.

Reporting Cycle

This Report is an annual report.

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 issued by the State-owned Assets Supervision and Administration Commission of the State Council
Guiding Opinions on the Better Implementation of Social Responsibility by State-owned Enterprises issued by 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

Data Sources

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 expressed in RMB.

Quality Assurance

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.

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.



CONTENTS

Part I
Smart Use of Resources

Building the Pillar of the Country

- 4 Chairman's Address
- 6 About Us
- 12 Contribution of Building Materials to Sustainable Development
- 14 Responsibility Featured Story: Creating ESG Building Materials to Facilitate the Chinese Path to Modernization

22

Promoting Prosperity and Development



- 24 Proud Results
- 28 Precision Management
- 30 Deepening Reform
- 32 Guidance by Party Building

34

Energizing Technological Innovation

- 36 Optimizing the Innovation Ecosystem
- 38 Deepening Collaboration on Innovation
- 39 Promoting Digital Transformation
- 41 Fostering Achievements of Technological Innovation



- 56 Safety and Prudence
- 60 Employee Rights and Interests
- 61 Employee Development
- 62 Employee Care



- 66 Open Cooperation
- 70 Rural Revitalization
- 72 Good Deeds

42

Protecting Green Ecology



- 44 Strengthening Green Management
- 45 Practicing Green Production
- 49 Providing Green Services
- 50 Enabling a Low-carbon Future

- 76 Concept of Responsibility
- 76 Responsibility Governance
- 78 Responsibility Integration
- 79 Responsibility Communication
- 82 Responsibility Sharing
- 84 Honor of Responsibility



- 86 Future Prospects
- 88 Appendix

Keeping the "Top Priorities of the Country" in Mind

Part II
Services for Construction

Sharing Development Results

54



Marching Towards a Better Future

64

Talking about Responsibility Management

74

Chairman's Address



General Secretary Xi Jinping pointed out that "we should accelerate the construction of a number of world-class enterprises with excellent products, outstanding brands, innovation leadership and modern governance, and achieve greater development and play a greater role in the process of building a modern socialist country in all respects and achieving the Second Century Goal." This has pointed out the direction for central enterprises to move forward bravely, and has also set a clear goal for CNBM to better cope with changes, make fresh progress and serve the overall interests. In 2022, the 20th CPC National Congress was successfully held. Guided by the new journey of building a modern socialist country in all respects, CNBM has adhered to the mission of "creating a better world with materials", bravely shouldered the responsibility of building the "Pillar of the Country", gathered the majestic strength of unity and hard work, and started a new voyage towards a world-class industrial investment group specializing in the material industry.

Building a World-Class Group Moving Towards a Powerful Country in Materials

Those who can succeed must be strong, and those who are self-reliant must be able to succeed. Promoting our ambition with technology, we are committed to enhancing our technological innovation capacity.

In a year when the old growth drivers are transforming into new ones at a faster pace, innovation is playing a stronger role as the primary driver. We have accelerated efforts to create sources of original technologies and innovated and implemented eight reform measures such as the "open competition mechanism" and the "seed" fund. We have actively declared as a leader of the modern industrial chain of low-carbon inorganic nonmetallic materials. Technological breakthroughs have been achieved in high-efficiency grinding of cement raw material, oxygen-fuel combustion coupled with carbon capture, ultra-fine electronic fiberglass, and one-time forming of flexible glass. Remarkable results have been achieved in the joint research on domestic large aircraft and aero-engines. Many new materials have been applied to major national tasks such as aerospace. In 2022, five innovations of the Group were listed in the Catalogue of Recommended Achievements of Technological Innovation of Central Enterprises, and 72 new high-tech enterprises were added, with a total of 22,000 effective patents, accelerating the realization of high-level technological self-reliance.

Great truths are always simple, and hard work is the key. Strengthening our confidence through development, we steadily enhance our ability to create value.

In an extremely grim and complicated situation, we have kept a close eye on the target, mobilized the efforts of the Group to improve quality, increase efficiency and stabilize growth, and achieved steady progress and quality improvement. The main business structure of the Group has become more optimized, and the basic building materials sector has unswervingly promoted the supply-side structural reform and consolidated the benefit foundation. The new materials sector bucked the trend, and its revenue exceeded RMB 100 billion for the first time, greatly enhancing the support for benefits. The engineering and

technical services sector continued to develop, and its business performance was consolidated and improved. Revenue from non-principal business trade has declined for three years, facilitating transformation. In 2022, the Group achieved revenue of RMB 380.16 billion, total profit of RMB 26.58 billion and net profit of RMB 22.11 billion. The Group was awarded "Double A" in the business performance appraisal of SASAC, and was rated as an enterprise with excellent performance, moving forward firmly on the road of high-quality development.

To achieve success, one should let others succeed and enjoy the benefits. Building righteousness with responsibility, we continuously improve brand leadership.

As the only central enterprise in the building material industry in China, we have always fulfilled our responsibility as "the backbone of a big country". As the vanguard of the "dual carbon" action in the building material industry, we have cooperated with 26 units to build the first dual carbon public service platform in the national raw materials industry, and carried out joint research on the dual carbon key & core technologies in building materials and other industries. We have continuously optimized the energy consumption structure and accelerated the planning of green and low-carbon demonstration projects and green energy projects. As a practitioner of promoting common prosperity, in accordance with the "Four No-Picks" requirements of the CPC Central Committee, focusing on the objectives and tasks of the "Five Revitalizations", we have constantly innovated the assistance mode, implemented more than 600 assistance projects in total, and sent 94 assistance cadres successively to effectively link the achievements of poverty alleviation with rural revitalization. In 2022, the brand image of the Group became more distinct, rising to 249th place in the Top 500 Most Valuable Global Brands, and fifth place among Chinese enterprises in the Social Responsibility Development Index. It will be selected into the ESG Alliance of Central Enterprises in the first batch, fully demonstrating the new image of central enterprises in the new era.

We practice earnestly and strive for perfection. Building our strength through hard work, we comprehensively improve our ability to integrate resources.

Focusing on the goal of building a "CNBM" overseas, we have strengthened the integration of global resources, striving to realize the internationalization of all services, processes and factors. In 2022, adhering to the concept of a community with shared future for mankind, we deepened international markets such as the Belt and Road Initiative, and strengthened the integration of the Group's international business and business model innovation. Relying on overseas engineering projects and funds, we promoted the coordinated export of superior technologies and products such as cement, plasterboards, fiberglass and wind turbine blades, and boosted the coordinated development of local diversified projects and lightweight building materials, green energy and environmental protection, import and export trade, cross-border e-commerce,

overseas warehouses and other businesses. A total of nearly 500 cement and glass projects have been built at a high level around the world, effectively enhancing our ability to allocate and integrate resources globally and truly practicing the corporate mission of "creating a better world with materials".

Adherence to the right path and perseverance lead to success. Emboldened by reform, we deepen and improve our corporate governance capacity.

In the year of the victory of the 20th CPC National Congress, we promoted and deepened the Party's leadership and Party building, conscientiously implemented the system of "the first issue" and "the top issue", carried out in-depth activities on the theme of re-learning, re-implementing and re-upgrading the spirit of General Secretary Xi Jinping's important instructions, and won the outstanding theoretical achievement of "Studying and Implementing General Secretary Xi Jinping's Important Exposition on Developing State-owned Economy" by SASAC. At the end of the three-year reform of state-owned enterprises, we pushed forward the reform in depth, and formed more than 100 institutional reform achievements, more than 40 of which were selected as reform cases of SASAC and professional institutions, successfully completing the three-year reform task. In the year of forging ahead with heavy burden, we worked out the implementation plan of accelerating the construction of a world-class enterprise. The overall completion rate of the "Improvement Action to Align with World-class Management" was 100%. The Group was awarded Grade A in the assessment of key tasks of the three-year action of central enterprise reform in 2022, and its confidence in high-quality development was firmer.

We march forward with confidence and conviction. The year 2023 is a key link in the 14th Five-Year Plan period, as well as a crucial period for CNBM to seize strategic opportunities and promote high-quality development. On the new journey, under the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we will fully implement the spirit of the 20th CPC National Congress, forge ahead with firm confidence, speed up the construction of a world-class industrial investment group specializing in the material industry with global competitiveness, and make new and greater contributions to building a socialist modern country in all respects and comprehensively promoting the great rejuvenation of the Chinese nation!

Party Secretary and Chairman

Zhou Yuxian

About Us

Company Profile

China National Building Material Group Co., Ltd. ("CNBM") was founded through the merger of China National Building Materials Group Corporation and China National Materials Group Corporation with the approval of the State Council, and is a central enterprise under the direct management of the State-owned Assets Supervision and Administration Commission of the State Council.

CNBM is the world's largest comprehensive building materials group, and a world-leading new materials developer and integrated service provider. It has been listed on the Fortune Global 500 for

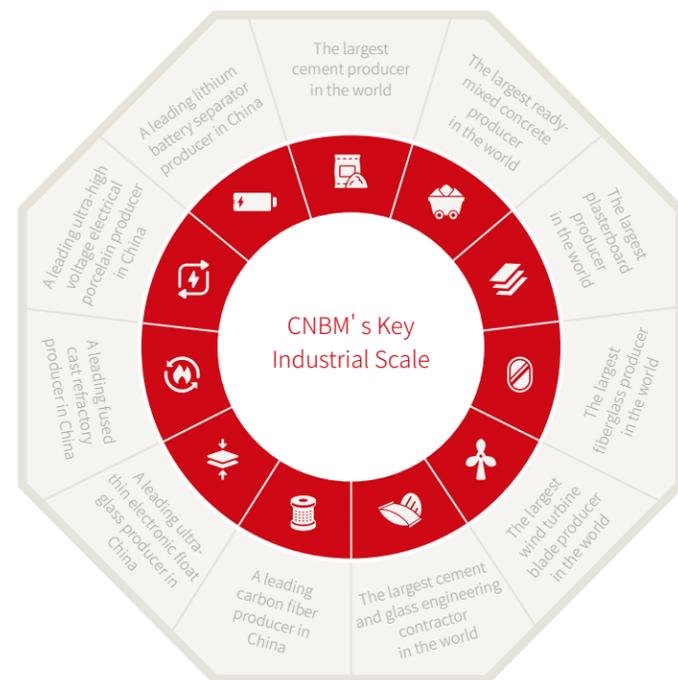
13 consecutive years, and ranked 247th in 2023. As of the end of 2022, CNBM's total assets amounted to RMB 702.96 billion, with annual revenue of RMB 380.16 billion, and a total number of employees of 209,000. CNBM holds 14 listed companies, two of which are abroad. The Group is the largest supplier 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 ultra-thin electronic glass, high-performance carbon fibers, lithium battery separators and ultra-high voltage electrical porcelain.

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, 22,000 valid patents, 55 national and industrial quality inspection centers and the most authoritative inspection and certification bodies in the industry, 11 national key laboratories and engineering (technical) research centers, 17 national standardization technical committees,

7 first prizes of the National Awards for Scientific and Technological Progress 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.



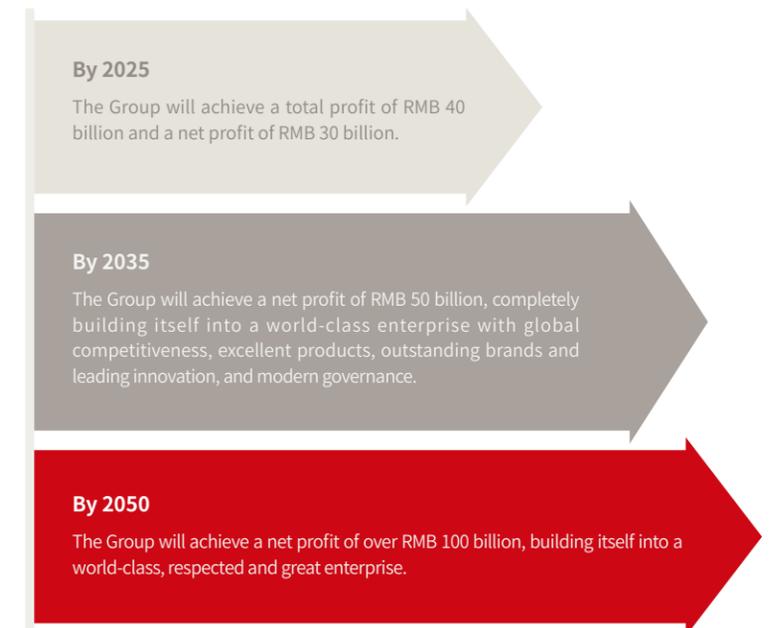
Corporate Culture

With its profound cultural deposits and high sense of responsibility as a state-owned 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.



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.



As of the end of 2022

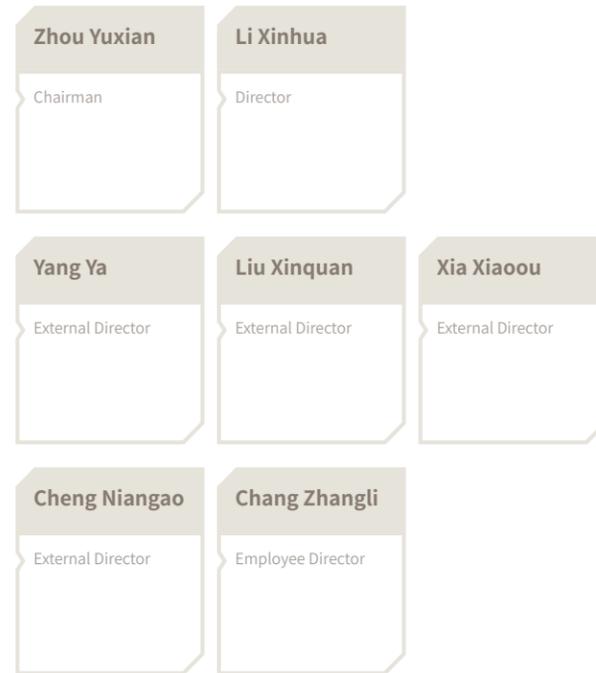
- Total assets:** 7,029.6 RMB 100 million
- Annual revenue:** 3,801.6 RMB 100 million
- Total number of employees:** 20.9 Ten thousand people

Scan the QR code to learn about CNBM

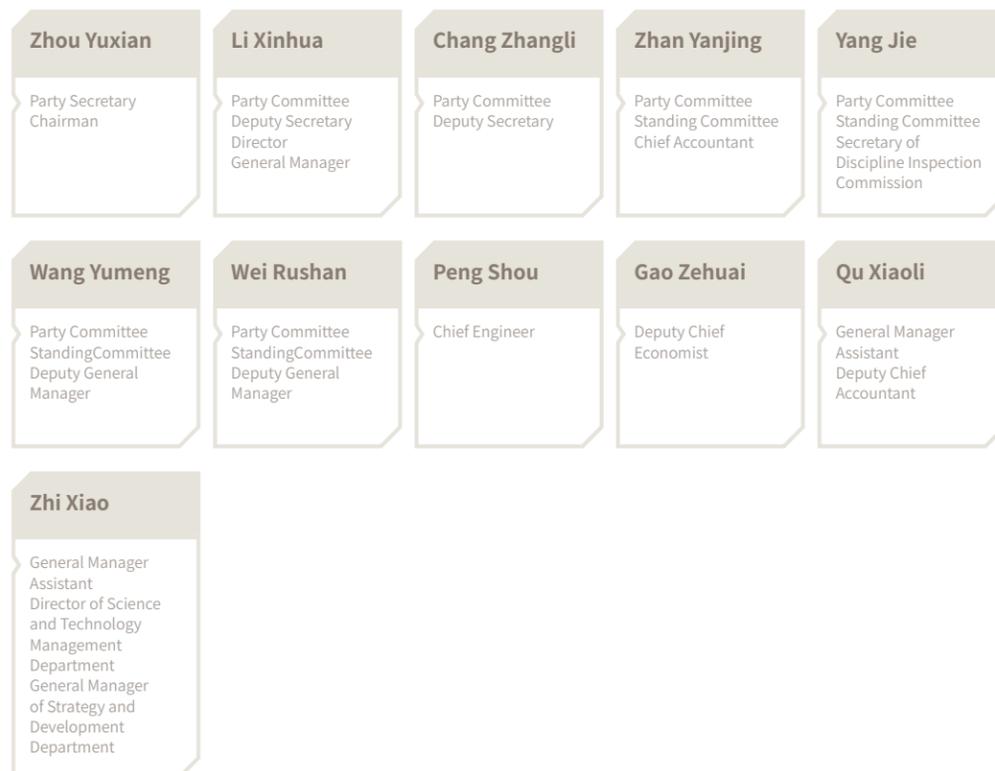
Management Team

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.

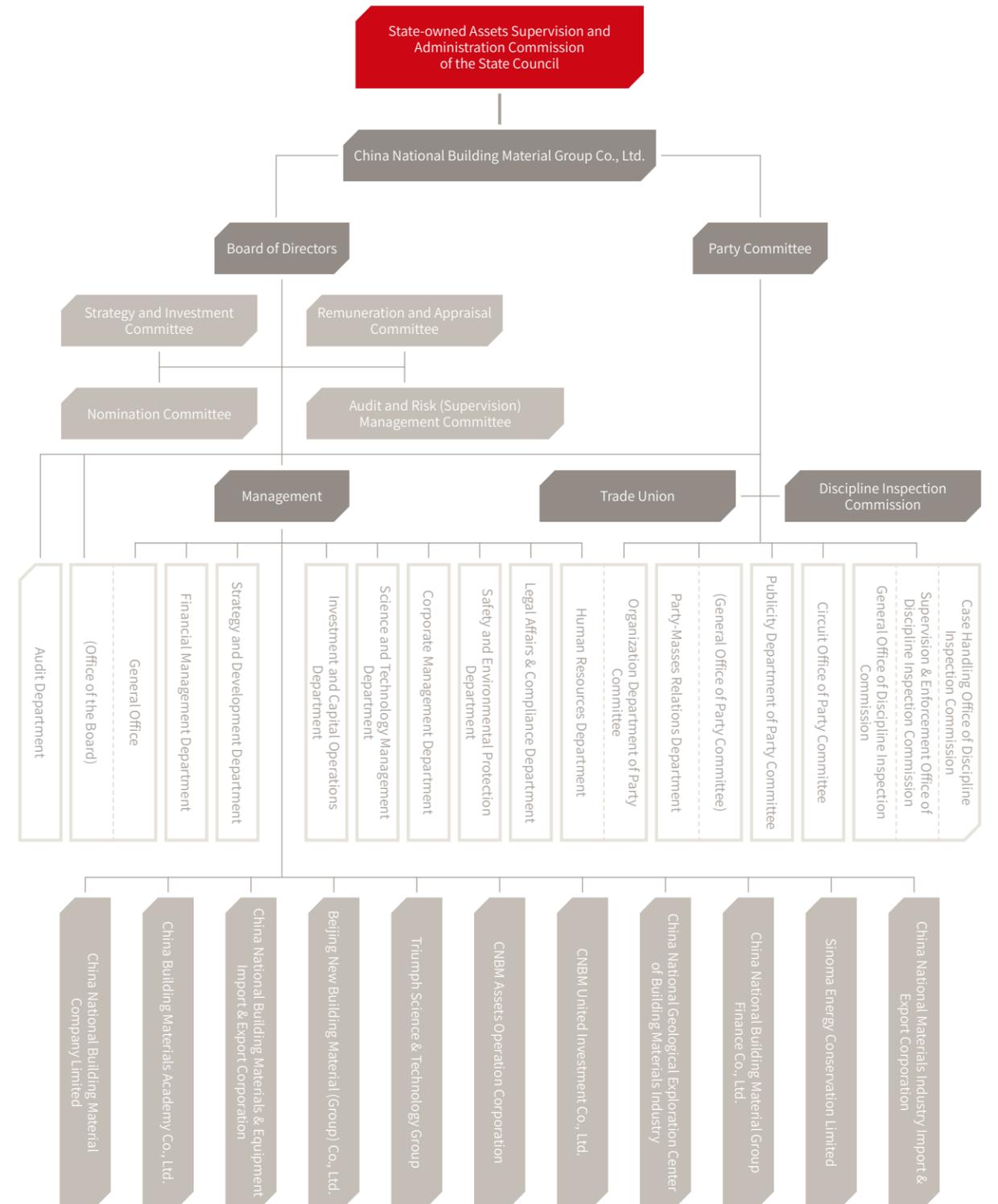
Board of Directors



Management



CNBM Governance Structure



Main Lines of Business



Basic Building Materials

▶▶ Cement, Cement +



The production scale of cement and commercial concrete ranks first in the world, with 379 new dry process cement production lines, clinker capacity of about 300 million tons, cement capacity of over 500 million tons and commercial concrete capacity of about 400 million cubic meters. As the standard configuration for the city, 51 cement kiln cooperative disposal production lines have been built. The total annual disposal scale is 5.33 million tons, and the landfills are reduced by 1,333 mu. The installed capacity of waste heat power generation of cement sheeting is 1971.3 MW.

Key enterprises

Xinjiang Tianshan Cement Co., Ltd., North Cement Co., Ltd., Gansu Qilianshan Cement Group Co., Ltd., Ningxia Building Materials Group Co., Ltd.



New Materials

▶▶ Plasterboards and Waterproof Materials



Focusing on plasterboard business, 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, environment-friendly and healthy indoor environment. Taking plasterboards as the leading product, we have gradually developed the global layout of the whole product lines.

Key enterprises

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

▶▶ Fiberglass



The production capacity is 3.5 million tons, ranking first in the world. The fiberglass tank furnace wiredrawing technology won the second prize of National Awards for Scientific and Technological Progress. We have created the first large-scale tank furnace wiredrawing production line in China, the first 10,000-ton fiberglass production line in China and the first large-scale fiberglass production line overseas, with a global market share of over 30%.

Key enterprises

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

▶▶ Wind Turbine Blade



The production capacity is 30 GW, and the products cover the series from 1.0 MW to 12.0 MW, with more than 100 models, which are sold to the United States, Thailand, Pakistan, South Korea and other countries. We have developed the longest 90 m 6 MW carbon fiber girder composite blade in China and the largest 102 m 11 MW all-fiberglass offshore blade in China, creating many of the best in China.

Key enterprises

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

▶▶ Carbon Fiber



The autonomous and controllable high-end carbon fiber complete technology won the first prize of 2017 National Awards for Scientific and Technological Progress. The first Xining 10,000-ton carbon fiber production base in China was put into use, marking the industrialization of domestic carbon fiber. We participated in the formulation of the first international standard for measuring carbon fiber density in China.

Key enterprises

Zhongfu Shenyang Carbon Fiber Co., Ltd.

▶▶ Lithium Battery Separator

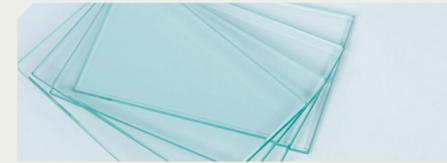


With internationally advanced wet separator manufacturing equipment and leading technology R&D capabilities, we have realized the domestic production of the last key material in lithium battery materials. We have 5-20 μm wet separator and various coated separator products, which are used in new energy vehicle power batteries, 3C consumer batteries, energy storage batteries and other fields, helping China achieve the goals of carbon peaking and carbon neutrality at an early date.

Key enterprises

Sinoma Lithium Battery Separator Co., Ltd.

▶▶ High-quality Float Glass



We have the National Key Laboratory of New Technology of Float Glass. We have created the largest single contract amount and the largest production capacity of China's float glass production technology and complete equipment export projects, and built the most advanced float glass production line in Central Asia.

Key enterprises

Triumph Science & Technology Group

▶▶ 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 oxygen-fuel 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

▶▶ Advanced Ceramics and Artificial Crystals



Advanced Ceramics is the third enterprise in the world after CoorsTek of the United States and Toshiba of Japan, and the first and only enterprise in China to form mass production of hot isostatic pressing silicon nitride ceramic materials. The successfully developed G3 bearing balls have been applied in aerospace and aviation engineering, and have been supplied in large quantities in many domestic bearing enterprises. The preparation technology of nonlinear optical crystals, infrared optical materials and microcrystalline materials has generally reached the international advanced and domestic leading levels. The nonlinear optical crystal KTP has helped realize the core functions of the "Mozi" quantum communication satellite, providing crystal material support for China to lead the world in quantum communication development.

Key enterprises

Sinoma Advanced Materials Co., Ltd.



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.

1

Eliminating poverty is the common ideal of mankind. CNBM has devoted itself to the great cause of poverty alleviation. In 2022, it invested 79.4 million yuan in assistance funds, implemented 27 assistance projects, introduced assistance funds of 2.718 million yuan, trained 856 grassroots officials, entrepreneurial leaders and various technical personnel, and purchased and helped sell 20.3734 million yuan of agricultural products in poverty-stricken areas, helping poverty alleviation from various aspects such as industry, consumption, education and governance.

2

Zero hunger is the foundation and important issue to ensure global sustainable development, and food security is an important part of global governance. While actively connecting "targeted poverty alleviation" with "rural revitalization", CNBM carried out greenhouse characteristic planting industry in Xiaohunuke Village in 2022 to realize agricultural efficiency, increase farmers' income and help improve food security and living standards.

3

Ensuring healthy lifestyles and promoting well-being for all people at all ages is essential for sustainable development. In 2022, CNBM carried out special medical assistance according to local conditions, joined hands with Xi'an Fifth Hospital to carry out free clinic activities for endemic diseases in Jingyuan County; offered the consolation money of 11.105 million yuan to help 9370 special and difficult employees; and actively deployed the work of epidemic prevention to ensure the health and safety of employees.

4

Education is the key to getting rid of poverty. CNBM has long carried out educational assistance such as donating money for education, volunteering to support education, scholarship support, etc. Through the "Smart Learning Program", it has organized "Smart Learning" summer camps, opened "Smart Learning" reading rooms in mountain schools, awarded "Smart Learning" scholarships, and carried out "Seven-color Classroom" voluntary activities to ensure inclusive and fair quality education.

5

Gender equality is the necessary foundation for world peace, prosperity and sustainable development. CNBM fully respects and protects women's rights and interests. While paying tribute to women's outstanding contributions, it takes active actions to fulfill a number of principles and strives for gender equality and women's empowerment in the workplace, market competition and community life. In 2022, the number of female managers in the Group was 2,795.

6

Access to clean drinking water and basic sanitation facilities is an important guarantee for people's health. CNBM strengthened the fine management of water resources, and the utilization rate of circulating water in 2022 was 95.6%; it also put forward the initiative of "smart use of every drop of water" to jointly protect the source of life.

7

Energy is a common concern of the world today and lies at the core of every important challenge and opportunity. On the one hand, CNBM continues to carry out energy-saving technological transformation to improve energy efficiency and reduce energy consumption level continuously; On the other hand, it continues to optimize the energy consumption structure, speeds up the layout of green and low-carbon demonstration projects and green energy projects, deepens global photovoltaic power generation projects, continues to promote the construction of waste heat power generation projects and zero purchased electricity plants, and increases the proportion of photovoltaic and biomass applications.

8

Sustained and inclusive economic growth is the basic guarantee for people to get decent jobs. CNBM adheres to the people-oriented principle, organizes various special personnel trainings, initially forms a special training system for scientific and technological leading talents, young scientific and technological talents and skilled talents; continues to strengthen the training of officials and talents, and actively holds training courses for EMT, directors and supervisors, and young and middle-aged officials to promote people's all-round development.

9

Sustained investment in infrastructure and innovation is an important driving force for economic growth and social development. CNBM is committed to the research and development of key and core technologies and common technologies in the industry to promote the development of the building materials industry; implements innovative measures such as "3 + 22" research tasks based on the "open competition mechanism" and special fund "331", and allocates the first batch of special "seed" funds of 114 million yuan, which are specially used for leading scientific research direction and encouraging scientific and technical personnel, and relying on technological innovation and connectivity to help industrial upgrading.

Contribution of Building Materials to Sustainable Development



17

16

A just and democratic society is a necessary condition for sustainable development. CNBM insists on managing enterprises according to law to comprehensively deepen the construction of the rule of law in central enterprises, formulates its 14th five-year plan for the construction of the rule of law, and issues the Implementation Plan for Further Deepening the Construction of the Rule of Law in China National Building Materials Group Co., Ltd.; Meanwhile, it optimizes the corporate governance mechanism, strengthens internal risk control management, practices anti-corruption and other sunshine codes of conduct, adheres to democratic management, and strives for fair operation and steady development of enterprises.

15

Deforestation and desertification caused by human activities and climate change pose major challenges to sustainable development. CNBM has carried out mine reclamation and factory greening, promoted the construction of national green mines and garden-style ecological factories, and built a number of factories in gardens, grasslands and forests to effectively protect biodiversity; actively explored environmental protection service projects, and provided green mining and mine treatment services for more than 40 cement plants at home and abroad, thus restoring the natural environment to the maximum extent.

14

Protecting the ocean, an important global resource, is crucial to building a sustainable future. CNBM has continuously improved the ability of reclaimed water reuse, sewage treatment and rain and sewage diversion, and strived to achieve the goals of negative growth of water use and zero discharge of sewage; carried out activities such as proliferation and release to protect marine resources.

13

Climate change is a common challenge facing all mankind. CNBM has actively responded to climate change, established a low-carbon development strategy according to the national "14th Five-Year Plan", and followed the national environmental protection policies such as "carbon peaking" and "carbon neutrality" to conduct a comprehensive assessment of risks related to climate change, focusing on green and low-carbon transition and industrial upgrading, vigorously developing energy-saving and carbon-reducing technologies, and improving environmental management measures.

12

11

Reducing inequality is crucial to achieving sustainable development goals. CNBM implements the Measures for the Implementation of Staff Assistance in the "Smart Construction Non-profit Fund" of China National Building Materials Group Co., Ltd., and reviews the scope and conditions of objects of assistance step by step. In 2022, the Group participated in or supported 388 activities related to protecting the rights and interests of women, children or the disabled.

10

Building inclusive, safe, disaster-resilient and sustainable cities and human settlements is the consensus of the global community. CNBM practices the philosophy of "smart use of resources and serving construction", sets up the "Smart Construction" non-profit fund, extensively carries out social welfare activities such as disaster relief, voluntary service, staff assistance, supporting education and helping students, and overseas aid construction, and deeply participates in the construction of "Belt and Road", providing high-quality basic building materials for infrastructure construction along "Belt and Road" and promoting common development.

Responsibility

Featured Story

Creating ESG Building Material Strength to Help Chinese-style Modernization

High-quality development is the primary task of building a modern socialist country in an all-round way.

—pointed out by General Secretary Xi Jinping in the report of the 20th National Congress of the Communist Party of China

The 20th National Congress of the Communist Party of China drew up a grand blueprint for building a modern socialist country in an all-round way and promoting the great rejuvenation of the Chinese nation in an all-round way with Chinese-style modernization. Chinese-style modernization is the modernization of high-quality development, of common prosperity for all, of coordinated material and cultural-ethical advancement, and of harmonious coexistence between man and nature, which is highly consistent with ESG concept of advocating multiple value orientations and pursuing the maximization of comprehensive economic and social values. As the only central enterprise in the building materials industry and the first batch of member enterprises of "ESG Alliance of Central Enterprises", CNBM takes sustainable development as the guide and value creation as the goal, actively practices ESG path, further promotes ESG practice, and contributes building material strength to Chinese modernization.

Creating Value and Deeply Cultivating ESG

As a state-owned capital investment company, CNBM has distinct functions of serving the national strategy and driving the industry. In the key industrial fields related to the national economy and people's livelihood, it is a benchmark for cultivating core competitiveness and innovation ability, and it is also a "leading model" for practicing ESG concept. In the process of accelerating the construction of a world-class material industry investment group with global competitiveness, it takes ESG as the anchor of value creation, strives to be the coordinator of market-oriented operation of state-owned capital and the cultivator of forward-looking strategic emerging materials industry, and assists in the Chinese modernization with high-quality ESG practice.



China National Building Material Group Co., Ltd. was selected into the First Batch of "ESG Alliance of Central Enterprises"

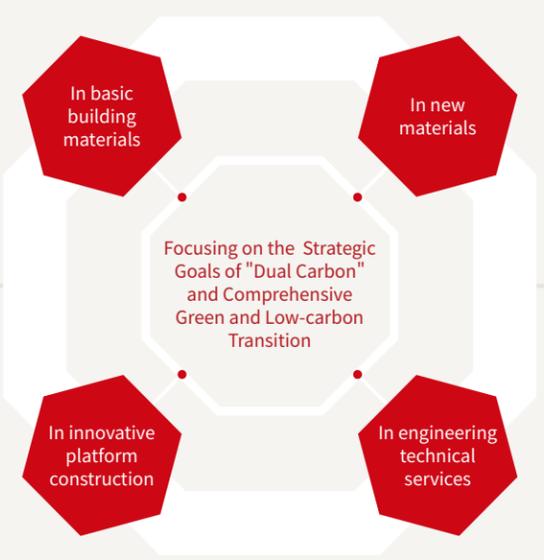
Taking the "E" as the Gist to Assist in the Modernization of Harmonious Coexistence between Man and Nature

Lucid waters and lush mountains are invaluable assets. Environmental responsibility (E) requires enterprises to adopt sustainable development methods to reduce negative impacts on the environment as much as possible. Based on this, CNBM pays close attention to the indicators of energy and resource utilization efficiency, carbon emissions, clean energy, climate change and green building materials of enterprises, so as to promote the positive impact of enterprises on nature and environment.

Actions by CNBM

Actively promoting energy conservation, pollution reduction and carbon reduction in the whole process, and building an environment-friendly industry and standard configuration for modern cities.

Accelerating the construction of the only national public service platform of "dual carbon" goals in the material industry led by the Group to win the bidding, and contributing Chinese wisdom, Chinese solutions and Chinese standards to global carbon governance.



Increasing the proportion of new materials with low carbon and high added value, and vigorously developing products such as glass fiber, wind turbine blades, lithium battery separators, carbon fiber, photovoltaic glass, cadmium telluride (CdTe) thin film solar cells, graphite anode material, and high-pressure composite hydrogen storage bottles.

Assisting in the green and low-carbon process of the global building materials industry and accelerating the construction of a new development pattern of "dual circulation" with first-class technology, equipment, standards and services.

Environmental Indicators of China National Building Material Group Co., Ltd. 103		Indicator Hierarchy 20	
Energy Use	Energy Recovery and Utilization	Comprehensive Utilization and Coordinated Disposal of Resources	Use of Water Resources
Pollutant Discharge	Response to Climate Change	Environmental Protection	Green Office
Investment in Energy Conservation and Environmental Protection	Shutdown of Production Facilities	Organization and Team Building	Management System and Management Mechanism
Intelligent Control of Energy	Environmental Emergency Management	Environmental Initiatives and Publicity	Green Manufacturing
Green Packaging	Green Building Materials	Clean Energy	Environmental Punishment

Taking the "S" as the Basis to Assist in the Modernization of Common Prosperity for All

People are the foundation of a state, and a state can enjoy peace only when its foundation is firm. Social responsibility (S) requires enterprises to pay attention to the performance of responsibilities of relevant parties such as government, employees, customers, suppliers and communities. Based on this, CNBM pays close attention to the employees' rights and benefits in enterprises, focuses on the indicators of scientific and technological innovation, rural revitalization and social welfare undertakings at home and abroad, and makes contributions to the Chinese-style modernization of common prosperity for all by making balanced and effective contributions to the interests of all relevant parties and society.

Social Indicators of China National Building Material Group Co., Ltd. 218		Indicator Hierarchy 31	
Financial indicators	Production indicators	Quality control	Brand building
Customer service	Integrity management	Supply chain responsibility	Scientific research institution
Scientific researcher	Scientific and technological input	Scientific research achievement	Awards
Social service	Academic service	Employee diversity	Employment equality
Basic rights and interests	Democratic management	Compensation and benefits	Employee training
Occupational safety and health	Economic support and incentives	Work-life balance	Employee evaluation
External evaluation	Domestic community development	Overseas community development	Charitable donation
Support for science and education	Regional coordinated development	Volunteer activities	

The Group invested 2 million yuan to help Xinmin Community Village Collective Cooperatives implement the upgrading and transformation of market towns



BNBM PNG LTD launched community public welfare

Actions by CNBM

CNBM adheres to the core position of innovation, has the "top priorities of the country" in mind, builds the "Pillar of the Country", focuses on cutting-edge technology research in the industry, serves the major strategic needs of the country, actively responds to the call of the country, helps rural revitalization in multiple dimensions, devotes itself to the construction of "Belt and Road", and develops together with the communities where it operates.

Taking "G" as the Soul to Assist in the Coordinated Modernization of Material and Cultural-Ethical Advancement

Only by abiding by the rule of law and upholding fundamental principles can all go well without orders. Corporate governance (G) requires enterprises to establish responsible management mechanism and system, and its essence is to establish responsible and sustainable corporate culture. Based on this, CNBM attaches great importance to corporate governance and board building, and focuses on indicators including enterprise risk prevention and control, transparency, independence and integrity, etc., so as to help the coordinated development of material and cultural-ethical advancement within enterprises.

Actions by CNBM

As a central enterprise with a responsible mission, while firmly promoting the reform process of state-owned enterprises, CNBM further improves the sustainable development management structure, continuously accelerates the effective integration of ESG risk management strategy with the existing risk management system, and promotes systematic ESG practice in enterprise management and operation.

Governance Indicators of China National Building Material Group Co., Ltd. **58**

Indicator Hierarchy **3**

Company Profile
Corporate Governance
Responsibility Management



Zhongfu Shenyong attached great importance to and strengthened investor relations management

Beijing New Building Materials Public Limited Company (BNBM) won four honors including "Outstanding IR Enterprise", "Institutional Friendly Communication Award", "Small and Medium Investor Relations Interaction Award" and "Best New Media Operation Award" launched by Shenzhen Panorama Network Co., Ltd. and China Academy of Corporate Governance of Nankai University



Ecological Construction ESG Practices Hand in Hand

Building material industry is an important material industry in China. Building materials products are widely used in various fields such as construction, environmental protection, high-tech industries and people's lives. For CNBM, ESG is not only an investment philosophy, but also a set of values and a systematic and long-term strategy, which needs constant exploration and practice, and even more needs to be practiced hand in hand.

ESG Communication

On May 27, 2022, the State-owned Assets Supervision and Administration Commission of the State Council issued the Work Plan for Improving the Quality of Listed Companies Held by Central Enterprises, promoting more listed companies held by central enterprises to disclose ESG special reports, and striving for "full coverage" of relevant special reports by 2023.

CNBM actively promoted the ESG information disclosure of its holding listed companies. Thirteen listed companies, including China National Building Material Company Limited, Xinjiang Tianshan Cement

Co., Ltd., Ningxia Building Materials Group Co., Ltd., Gansu Qilianshan Cement Group Co., Ltd., China Jushi Co., Ltd., Beijing New Building Material (Group) Co., Ltd., Sinoma Science & Technology Co., Ltd., Sinoma International Engineering Co., Ltd., China Certification and Inspection Group, Triumph Science & Technology Group Co., Ltd., Triumph New Energy Company Limited, Sinoma Energy Conservation Ltd. and Zhongfu Shenying Carbon Fiber Co., Ltd., released the 2022 ESG reports, striving for "full coverage" the 2023 ESG reports of holding listed companies.



ESG Standards

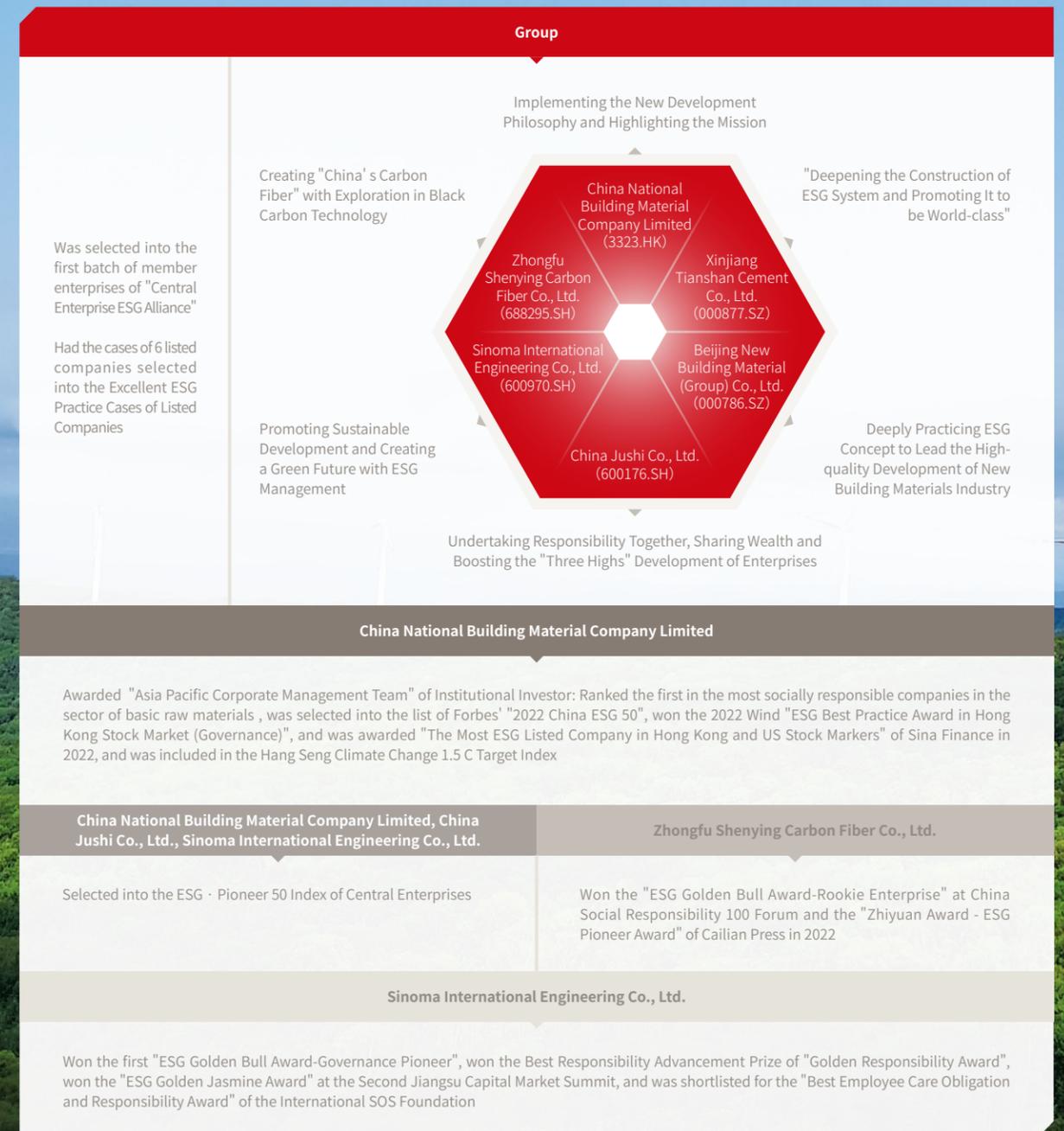
Standardization is one of the important measures to solve problems in the current ESG system construction. CNBM participated in the compilation of the first ESG reporting guide in the domestic building materials industry-Environmental, Social and Governance (ESG) Reporting Guide for Building Materials Enterprises, and joined hands with industry partners to promote the development of ESG management standards for building materials enterprises.



Environmental, Social and Governance (ESG) Reporting Guide for Building Materials Enterprises

To the Future ESG Goes Forward with Honor

As a large enterprise in the building materials industry, CNBM always keeps in mind the corporate mission of "materials create a better world", devotes itself to high end, intelligence, environmental protection and safety, continuously provides high-quality products and services to the society, integrates into the overall situation of national development, bravely shoulders the responsibility and mission of the times, and interprets the sustainable value of the enterprise with excellent ESG performance.





Part I

Smart Use of Resources

Building the "Pillar of the Country"

Response to the United Nations Sustainable Development Goals (SDGs)



01



Promoting Prosperity and Development



22

02



Energizing Technological Innovation



34

03



Protecting Green Ecology



42

01



Promoting Prosperity and Development

For a tree to grow tall, a strong and solid root is essential; for a river to reach far, an unimpeded source is necessary. As the only central enterprise in the field of building materials in China, CNBM has always had the "top priorities of the country" in mind, strived to build the "Pillar of the Country", combined the study and implementation of the spirit of the 20th National Congress of the Communist Party of China with the task of promoting high-quality development of the Group and the goal of accelerating the construction of a world-class enterprise, promoted all the work of business reform and development under the guidance of "six adherences", focused on and undertaken the heavy tasks, exerted efforts in the research, and delivered a report satisfactory to the times and the people In the opening year of the second centenary goal.

380.16

The operating income was 380.16 billion yuan

26.58

The total profit was 26.58 billion yuan

22.11

The net profit was 22.11 billion yuan

Common Prosperity and Development

Prospering Scientific and Technological Innovation Together

Protecting Green Ecology Together

Outstanding Performance

Faced with the turbulent external environment and arduous reform and development tasks, CNBM gives full play to the role of "pillar" and "ballast stone" of the central enterprises, carries out special actions to improve quality and efficiency in depth, and makes every effort to overcome the overlapping effects of repeated epidemics, low demand and high costs, etc., achieving steady progress in business performance, improving quality in progress, optimizing the main business structure, continuously enhancing the core competitiveness of the industry, and ranking first among global building materials enterprises, global brand value rankings, social responsibility development index, etc. In 2022, CNBM achieved an operating income of 380.16 billion yuan, a net profit of 22.11 billion yuan and a total profit of 26.58 billion yuan, won the "Double A" grade in the operating performance assessment of the State-owned Assets Supervision and Administration Commission, and was rated as the excellent performance enterprise.

As of the end of 2022

Operating Income

3,801.6 RMB 100 million

Net Profit

221.1 RMB 100 million

Total Profit

265.8 RMB 100 million

Optimization and Upgrading of Basic Building Materials

CNBM focuses on the development of "High-end, Intelligent and Green", continues to lead the supply-side structural reform of the industry, accelerates the implementation of the "three tail-raising factors", improves the "Cement +" layout, and steadily enhances the operation quality, striving to exceed the plateau period to achieve higher quality development. In 2022, CNBM actively and steadily promoted the second stage of business integration, promoted Ningxia Building Materials Group Co., Ltd. to absorb and merge the CNBM Technology Corporation Limited, and built a digital service platform for the Group; promoted

Gansu Qilianshan Cement Group Co., Ltd. to be placed in the assets of high-quality design institutes of China Communications Construction Group (Ltd.), and established the first model of market-oriented restructuring and listing cooperation among central enterprises. At the same time, the "Cement+" strategy was comprehensively deepened, and the construction aggregate production capacity was added by 50 million tons. Six intelligent environmental protection production lines were built through reduction and replacement, 17 inefficient production lines were eliminated, and the overcapacity was cut by 10.91 million tons.

Revitalizing Traditional Cement Plants

Ningxia Building Materials Group Co., Ltd. has always adhered to the new development concept, carried out ecological environmental protection throughout the whole process of production and operation, carried out environmental protection technological transformation in all directions, and continued to promote the construction of green mines and green factories, actively creating "Electric Yinchuan, Zero Carbon Logistics" in combination with the company's digital logistics business; thoroughly implemented the strategic thought of "Dual Carbon" goals, speeded up industrial adjustment, eliminated backward production capacity, improved the energy conservation and environmental protection of cement production lines year by year, and reduced the energy consumption, realizing the coordinated promotion of carbon reduction, pollution reduction and green expansion; actively explored intelligent construction and empowered traditional industries with digital technology. At present, kiln-mill expert system, digital intelligent storage system, e-security system, intelligent logistics system, intelligent loading and shipping system, etc. have been built. On the basis of deeply liberation of productivity, the Group helps production to realize production automation, management visualization and fault pre-control in one fell swoop, running out of "acceleration" on the road of building "National Great Talent", and writing a new chapter in the journey of "New Story of Cement".



Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management

Optimizing and Strengthening New Materials

CNBM aims at the development of "High-end, Mass Production and Globalization", focusing on innovation chain to intensify key technology research, industrial chain to accelerate the popularization and application of product technology, and businesses with wide application prospects and huge growth space for structural optimization and stepped layout. In 2022, the Advanced Materials Industry Fund invested 5.15 billion yuan to lay out new materials such as new energy and semiconductors, and the graphite new materials companies entered substantive operations; China Jushi Tongxiang Intelligent Manufacturing Base was fully completed, the new line in Egypt was started, and the new bases in Jiujiang and Huai'an were steadily advanced; Beijing New Building Materials Co., Ltd. won the "Gypsum Industry

Leading Award" exclusively; Beixin Waterproof Co., Ltd. launched a series of new products for civil construction, and won the influential brand of waterproof materials for three consecutive years; The Taiyuan Base of Taishan Fiberglass Inc. accelerated to land; The Brazil, Yiwu, Yulin and Yangjiang projects of Sinoma Wind Power Blade Co., Ltd. were promoted in an orderly manner; Sinoma Lithium Battery Separator Co., Ltd. has added 2 billion square meters of planned production capacity, and Pingxiang and Yibin Bases have accelerated to land; The 14,000-ton high-performance carbon fiber project of Xining Phase II of Zhongfu Shenying Carbon Fiber Co., Ltd. was put into production in stages; China Building Materials Academy and Sinoma Advanced Materials Co., Ltd. completed the reorganization to consolidate the development foundation

of advanced ceramics and intraocular lens materials; Maoming Phase I of Geological Prospecting Center has been put into trial operation with an annual output of 600,000 tons of kaolin. The operating income of the new materials sector exceeded 100 billion yuan for the first time, and the total profit and net profit accounted for more than 50%.

The operating income of the new materials sector exceeded 100 billion for the first time, and the proportion of total profit and net profit reached



The Group: Chairman Zhou Yuxian visited CCTV's "Dialogue" and selected three industrial coordinates to tell how to build a "National Great Talent"

The decade of the new era is a decade of innovation and endeavor in China's new materials industry, and it is also a decade in which China's new materials industry has made great progress in terms of industrial scale, system construction and cluster effect. In 2022, CCTV's "Dialogue" took ten years as the scale, focused on pillar industries, brought together heavyweight enterprises, and specially planned to launch a series of interviews with China Industrial Coordinates. Zhou Yuxian, Party Secretary and Chairman of China National Building Material Group Co., Ltd., visited "Dialogue", focusing on Qinghai's 10,000-ton carbon fiber production base, China's largest overseas glass fiber production base, and the world's largest single wind power blade production base to tell the wonderful story of gathering force to create "National Great Talent" and bravely taking on the mission of material power.



Scan code to know more
China National Building Material Group Co., Ltd. has made great efforts to create a wonderful story of "the National Great Talent" and bravely shoulders the mission of strengthening the country with materials

Common Prosperity and Development

Prospering Scientific and Technological Innovation Together

Protecting Green Ecology Together

Iterative Expansion of Engineering Services

CNBM actively cultivates "New Models, New Formats and New Kinetic Energy", and intensifies efforts to serve green production, energy conservation and consumption reduction, digitalization and intelligence, inspection and testing, etc., providing guarantee for the transformation and upgrading of the Group and its industries, green and low-carbon development, and expands the global influence of Made in China. In 2022, 150 overseas engineering projects of the Group were fulfilled on schedule, and 60 projects were successfully ignited and delivered. The equipment business integration plan between Sinoma International Engineering Co., Ltd.

and Hefei Cement Research & Design Institute corporation Ltd. (HCRDI) was submitted to the China Securities Regulatory Commission for review, and the operation and maintenance business integration with the CNBM Smart Industry Technology Co., Ltd.

was successfully completed, with the newly signed operation and maintenance contracts increasing by 86% year-on-year. The newly signed overseas contracts of China Building Materials Engineering increased by 50% year-on-year.



▼ Columbia Haorui Independent Grinding Upgrade Project contracted by China National Building Material Group Co., Ltd.

Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management

Orderly Integration of Trade Business

CNBM orderly promoted the integration of trade business, accelerated the settlement of historical problems, and ensured business continuity and shortened the integration period as much as possible in accordance with the principle of merging similar items. Integrate the overseas business of the Group with China National Building Material Investment Co., Ltd. as the main body, and integrate the domestic and foreign trade and supply chain business of the Group with Beijing New Building MATERIALS Co., Ltd. as the main body. In 2022, the Group's non-main business trade income was reduced by 7.78 billion yuan, a year-on-year decrease of 79.3%, completing the three-year reduction task, with more concentrated resources, and effectively strengthened synergies.



▼ The Group held a meeting of trade sector integration cadres



▼ The 30 MW photovoltaic power station in Cura Brocero, Cordoba Province, Argentina, which was contracted by China National Building Materials Engineering, is the first photovoltaic power station project of China National Building Material Group Co., Ltd. in South America

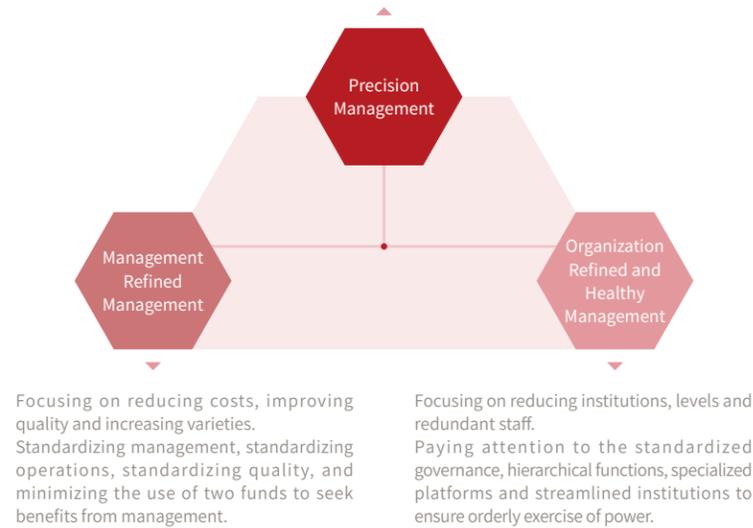


Common Prosperity and Development	Prospering Scientific and Technological Innovation Together	Protecting Green Ecology Together
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Precision Management

The management principle is a strong guarantee to achieve the goal of high-quality development and world-class. By summarizing a series of effective management experiences, CNBM has formed a combination of "Three Fine Management" and "Benchmarking Optimization", which are paid attention to the external market capture and internal strong management, effectively improving the management level of the Group.

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.



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 2022, it strengthened cost control. The interest-bearing liabilities of more than 3.5% were reduced by 56.9 billion yuan, and the sales expenses, management expenses and financial expenses decreased by 17.3%, 7.2% and 14.9% respectively; Strictly control capital expenditures and reduce the annual investment plan by 19.255 billion yuan. The speed of the production line of Sinoma Lithium Battery Separator Co., Ltd. increased by 30% year-on-year, and the gross profit margin increased by 21% year-on-year.

Beijing New Building Materials Co., Ltd.: "One Cent" Cost Saving Plan

Beijing New Building Materials Co., Ltd. actively implements the "Three Fine Management", attaches great importance to the work of "Increasing Savings and Reducing Costs" in the production management side, and achieves "Earning Money and Saving Money" and "Increasing Revenue and Reducing Expenditure". While improving external competitiveness, it continuously strengthens internal management and enhances internal cost control ability and anti-risk ability. It also adheres to the concept of "Price, Cost and Interest", focuses on cost control, establishes cost benchmarks, strengthens cost management, plans expenses, and fully does the target dismantling and task inversion. On the production end, the "One Cent" cost saving plan is fully implemented, that is, the production cost of gypsum board per square meter is reduced by 10 cents year-on-year in the gypsum board business. On this basis, the "One Cent" cost saving plan is extended to other business areas. In 2022, the unit consumption of gypsum, face protection paper and energy of gypsum board products decreased year on year, and the production cost decreased by about 10 cents year on year. Beixin Waterproof's cost is reduced by 5.6%, Beixin Coating's cost is reduced by 5.61%, and the annual cost of the company is saved by 332 million yuan.

Sharing Development Achievements	Marching Towards a Better Future	Responsibility Management
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Management Refinement

CNBM effectively promotes digital transformation, refined operation and management, and business integration, and does a good job of empowering system process reconstruction to promote continuous improvement of efficiency and more robust operation. In 2022, the Group formulated an implementation plan to speed up the construction of world-class enterprises, and made every effort to build a world-class enterprise with global competitiveness with excellent products, outstanding brands, leading innovation and modern governance. China Jushi Co., Ltd. through the implementation of "12350 Quality Management Method", continuously explores the whole process of the value chain such as production, supply, sales



Huaikan Nanfang Cements Co., Ltd. won the first AAA-level integration management system evaluation certificate of the cement enterprises in China, becoming the first cement enterprise in China to pass AAA-level evaluation

and research, leading the high-quality development direction of the glass fiber industry; CNBM Research Institute for Advanced Glass Materials Group Co., Ltd. introduced excellent performance management mode, took the opportunity of developing

strategic emerging industries, and focused on the integration of innovation chain, industrial chain, capital chain and talent chain, forming a quality management mode of "Four-Chain" integration.



Streamlined organization

We have further innovated our organizational structure, improved the incentive mechanism, and strengthened corporate governance, stimulating and empower with potential and vitality.

130 legal entities were reduced throughout the year, and a total of 338

legal entities were reduced through inspection and rectification; 21 non-public economic organizations and non-listed enterprises were divested on schedule. The revenue of 43 enterprises in distress increased by RMB 1.25 billion year-on-year.

34 key loss-making enterprises reduced losses by RMB 2.13 billion compared with 2018. Inspection and rectification have revitalized a total of 5,923 mu of idle land. 2.59 million square meters of idle real estate, RMB 1.66 billion of idle equipment, and 24 inefficient and invalid equity rights were disposed of.

Common Prosperity and Development	Prospering Scientific and Technological Innovation Together	Protecting Green Ecology Together
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Deepening Reform

Reform has always been the inherent gene of CNBM. We thoroughly studied and implemented the important statements of General Secretary Xi Jinping on the reform and development of state-owned enterprises, and resolutely implemented the decisions and deployments of the CPC Central Committee and the State Council. Under the guidance of SASAC, we made every effort to push forward the implementation of reform tasks, strengthened the implementation of "prescribed actions", and continued to explore "self-selected actions" to promote the continuous release of reform dividends.

- We have been awarded Grade A in the assessment of the three-year action of state-owned enterprise reform
- Science reform enterprises and double hundred enterprises have excellent performance in assessment
- More than 100 institutional reforms have been carried out
- More than 40 achievements were selected into the reform cases of SASAC and professional institutions

In the three-year action of state-owned enterprise reform

we deeply promoted the reform, went all out to tackle the hardest tasks, fully completed the task of the three-year action of state-owned enterprise reform, carried out supervision and inspection on 16 important subsidiaries, ensuring that the reform effect can stand the test, and seriously summarized the

experience. CNBM was selected as the third batch of advanced models of "Learning from the Advanced, Grasping Implementation and Promoting Reform" of the State Council Leading Group Office of State-owned Enterprise Reform, and exchanged experiences with SASAC six times.

Notable results have been achieved in three institutional reforms

- With a rigid fulfillment of performance in 2021. Nine unqualified employees were withdrawn.
- The proportion of managers competing for posts exceeded 60%, and the proportion of last-class adjustment and incompetent withdrawal reached 2.38%.
- New overseas investment projects were added, and the "toolbox" for medium- and long-term incentives was expanded to 5 categories and 9 types, and 9 new enterprises and 738 key employees were added to implement a full level contract-based management tenure system for medium- and long-term incentives.



Governance effectiveness has been significantly improved

- Enterprises at the third level of the group and at least the third level of the joint-stock company are comprehensively promoting the establishment of the "three meetings" list of powers and responsibilities.
- We strengthened the team building and professional management of directors and supervisors, and made the management and control mode of sending directors to manage equity more mature.
- The Board of Directors at the third level of the Group and above the third level of the joint-stock company made every effort to differentiate and implement the functions and powers of the Board of Directors.
- The Group and Sinoma Energy Conservation Ltd. were selected as "Model Enterprises of Corporate Governance" by SASAC, and the Group was rated as "Excellent" in the construction evaluation of SASAC Board of Directors.

Sharing Development Achievements	Marching Towards a Better Future	Responsibility Management
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Reform of state-owned capital investment companies

Taking the formal transformation of the Group into an investment company as an opportunity, we have accelerated the optimization of the layout and structural adjustment of state-owned capital, and made multi-directional efforts in the integration of basic building materials, new materials, engineering and technical services, logistics and trade, making the leading industries more elite.



Zhongfu Shenying Carbon Fiber Co., Ltd. is listed on the Shanghai Stock Exchange

We increased our holdings of five listed companies, namely China National Building Material Co., Ltd., Pingliang Qilianshan Cement Co., Ltd., Ningxia Building Materials Group Co., Ltd., China Testing & Certification International Group Co., Ltd. and CNBM Triumph Mineral Resources Group Co., Ltd., to stabilize the stock prices, increase the market value and boost investor confidence.

We optimized resource allocation through income collection and redistribution, invested in new materials and other business sectors by means of capital increase and fund, and supported emerging industries with mature industries.

We established a new graphite material industry platform to promote the development and deep processing of graphite.

We made a real investment in China United Cement Group Corporation and built an investment portfolio around the Group's strategy. The New Materials Industry Fund invested RMB 5.15 billion in new energy materials, semiconductor materials and other fields, and Zhongfu Shenying Carbon Fiber Co., Ltd., which controls the shares, and SICC Co., Ltd., which shares the shares, became the first carbon fiber and silicon carbide enterprises on the science and technology innovation board respectively.

- Clarify the boundaries of power and responsibility
- Pre-check procedures of Party Committee
- Improve organizational mechanism and closed-loop management

Adhere to the "Two Consistencies" Strengthen the Party's leadership in perfecting corporate governance

Improve precise authorization Stimulate the initiative of enterprise development

Implement governance-based management and control Improve the efficiency of corporate governance

- Implement the mechanism of "one policy for one enterprise" for secondary enterprises and increase investment authorization by classification and stage
- Implement differentiated authorization for relatively holding mixed ownership enterprises
- Adhere to the dynamic management of authorization

- The Board of Directors of the Group strengthened the support for the performance of external directors
- Effectively ensure that managers exercise their power and perform their duties
- The Board of Directors of subsidiaries strengthened standardized operation

Reform the management mechanism

We strive to improve the governance-based management and control mode, build a strategic management and control headquarters, introduce non-state-owned strategic investors into state-owned wholly-owned enterprises, implement employee stock ownership, establish a new mechanism for differentiated management and control of Party building, powers and human rights in mixed-ownership enterprises, consolidate and upgrade the reform of the "three capabilities" mechanism, strengthen the withdrawal clause of "two books and one agreement", and strengthen the rigid fulfillment of the term of office.

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Protecting Green Ecology Together

Guidance by Party Building

We have always adhered to the principle of "One Account for Party Building and Management", unswervingly adhered to the leadership of the Party, continuously strengthened Party building, and created a "1345" Party building work system with building materials characteristics and an innovative "Smart Use" corporate culture system, created the spiritual core of "the great material of the country", cast the "Pillar of the Country" with Party building, promoted the great project of Party building in the new era. Under the leadership of the Party, we shoulder the mission of serving the country by industry and strengthening the country by materials.

Data Review 2022



Chairman Zhou Yuxian leads all comrades to revisit the oath of joining the Party in the Party Day event with the theme of "Building a New Era and Welcoming the 20th CPC National Congress"

Sharing Development Achievements

Marching Towards a Better Future

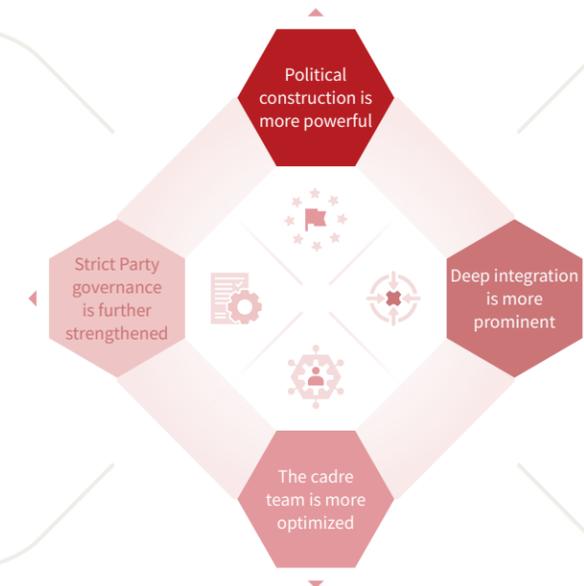
Responsibility Management



New Tianshan Cement Co., Ltd. and its affiliated enterprises watch the opening meeting of the 20th CPC National Congress

We conscientiously implemented the system of the "first issue" and "top issue"; carried out the theme activities of re-learning, implementing and upgrading the spirit of General Secretary Xi Jinping's important instructions, and won the outstanding theoretical achievements of "Studying and Implementing General Secretary Xi Jinping's Important Exposition on Developing the State-owned Economy" of the SASAC of the State Council; standardized the recommendation and nomination of candidates for the 20th CPC National Congress, quickly set off an upsurge of studying and publicizing the spirit of the 20th CPC National Congress, and organized 12 special lectures.

We carried out warning education and promoted the implementation of the spirit of the eight central regulations and their implementation rules; corrected the new trend of "four attitudes" and deepened the new attitude; formulated the Implementation Measures for Great Supervision; and solidly promoted the inspection and rectification of the SASAC Party Committee. The completion rate of the rectification task in three years is 99%.



We held special activities such as "The Party Flag Flutters and I Will Always Work Hard", "Beautiful China Action Month", and "Youth Spiritual Literacy Improvement Project". The Party building case of the Group's "1345" Party building work system was selected as a practical case of learning and training materials for cadres of state-owned enterprises. We practiced and explored research on constructing the "1239" integration model of Party's leadership and corporate governance, and the project won the first prize of outstanding achievements in Chinese enterprise reform and development in 2022.

We introduced the 14th Five-Year Plan for the construction of outstanding young cadres, and established a talent pool of 204 young cadres by hierarchical classification. We introduced 12 incentives for scientific and technological talents and 18 for the construction of young cadres; improved the assessment and incentive management system, and established the target annual salary model of the principal responsible persons of secondary enterprises. We held youth classes and EMT training classes, and achieved practical results in the construction of the closed-loop HR management system.

02



Energizing Technological Innovation

The report of the 20th CPC National Congress clearly points out that innovation is the core of China's modernization drive. As the leader of scientific and technological innovation in China's building material industry, CNBM has always adhered to the innovation-driven development strategy, focused on key & core technologies and bottleneck technologies, increased investment in R&D, improved scientific and technological innovation capabilities, and made every effort to create the source of original technologies of key materials and the modern industrial chain, enhancing the core advantages of the "Pillar of the Country" through innovation. More and more scientific and technological achievements have "flown into the homes of ordinary people", which has strongly supported the national industrial development and continuously met the people's needs for a better life.

14.9

Expenditure on research and experimental development is RMB 14.9 billion

3.9

The income from scientific and technological innovation is RMB 3.9 billion

22,425

A total of 22,425 valid patents have been held

5,926

Among them, there are 5,926 invention patents

The intelligent control center of China Jushi's fiberglass production base

Common Prosperity and Development

Prospering Scientific and Technological Innovation Together

Protecting Green Ecology Together



National Key Laboratory of New Technology of Float Glass

Optimizing the Innovation Ecosystem

We adhere to the corporate mission of "creating a better world with materials", focus on the "Four Aspects", fully leverage the role of the "national team" of scientific and technological innovation, and form a strong synergy of high-level scientific and technological self-reliance by increasing investment in R&D, improving the system and mechanism of scientific and technological innovation, strengthening the training of scientific and technological talents, and gathering innovative resources.

Improve Institutions and Mechanisms

We insist on opening the way for scientific and technological innovation and creating a good environment with perfect systems and mechanisms. In 2022, we continued to increase investment in technology R&D, implemented innovative measures such as the "3+22" research task, "the open competition mechanism" and special funding of "331", and allocated the first batch of special "seed" funds of RMB 114 million to guide scientific research and motivate scientific and technological personnel, driving enterprises to self-raise RMB 1.55 billion. At the same time, the Measures for Performance

Management of Scientific Research Project Management of the Group was formulated, and the guiding opinions on innovation and efficiency creation of scientific and technological talents were issued. China Building Materials Academy established a mechanism for team members to contact scientific and technological talents, promoting Sinoma Science & Technology and Sinoma International to further improve incentive and guarantee mechanisms and comprehensively stimulate the innovative vitality and motivation of scientific and technological talents.

Data Review 2022



Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management

Strengthen platform construction

We actively align with international standards, focus on major national strategic needs, cutting-edge technologies and disruptive technologies in the industry, and strengthen the construction of innovation platforms, creating a new engine for innovation-driven development. In 2022, we established the Science and Technology Association of the Group, promoted the reorganization and integration of three national key laboratories of low-carbon silicate materials, high-performance fiber composite materials and advanced glass materials, led the establishment of the National Innovation Center for New Glass Materials, and accelerated the construction of the "dual carbon" technology laboratory. The Group has a total of 18 state-level enterprise technology centers and 18 individual champion enterprises (products), all ranking first among central enterprises.

Introduce and train innovative talents

We trained, introduced and made good use of talents in all directions, and jointly carried out pilot projects for training high-level talents in new materials and engineering masters and doctors urgently needed by the country with Tsinghua University and Wuhan University of Technology, and accelerated the cultivation of young and middle-aged leading talents and innovative teams in science and technology, established

a core scientific research talent pool, deepened the innovation culture, carried forward the spirit of scientists, and respected the initiative of employees, so that the young scientific and technological backbones who are truly innovative and honest can play a leading role. In 2022, the Group won two collective outstanding contribution awards and one individual outstanding contribution award from SASAC.

Data Review 2022



Carefully control by staff at Sinoma Lithium Battery Separator

Common Prosperity and Development

Prospering Scientific and Technological Innovation Together

Protecting Green Ecology Together

Deepening Collaboration on Innovation

We think deeply about the integration between the national demand of the "Pillar of the Country" and the corporate mission of "creating a better world with materials", adhere to openness, sharing, collaboration integration and innovation, give full play to the scale advantages of the application scenarios of super-large manufacturing enterprises within the Group among central enterprises and between production and research, promote the combination of production, education and research, connect the upper, middle and lower reaches, and cooperate with large, medium-sized and small enterprises, striving to build a joint innovation body for tackling key problems in science and technology. The Group has 3 national demonstration bases for international scientific and technological cooperation.

Internal collaboration between production and research

Collaboration within the Group is the core productivity to continuously improve the resilience of the industrial chain, the vitality of the innovation chain and the influence of the value chain. The Group's affiliated enterprises give full play to their respective advantages in management, scientific research

and industries, deeply exploring cooperation opportunities and modes. China Building Materials Academy cooperated with the innovation forces within the Group to take the lead in implementing the construction tasks of low-carbon cement and special functional materials, striving to occupy the commanding heights of low-carbon cement science and technology, and making every effort to cultivate strategic products, industries and industrial chains of special functional materials.

External Joint Research

We deepened our cooperation with Commercial Aircraft Corporation of China, Ltd., and aimed at the major strategic needs of large aircraft and other countries, promoting the special project of large aircraft composite materials, and obtaining the supplier qualification of three fuselage sections of CR929 large aircraft. We focused on hydrogen energy storage and transportation materials, carbon fiber composite materials and low carbon technology, carried out joint research with Chinese Academy of Sciences, China Petroleum & Chemical Corporation, China Aerospace Technology Group Co., Ltd., etc. to

build a national "entrepreneurship and innovation" base for artificial crystals, and more than 20 upstream and downstream enterprises have settled in the base, forming a coordinated development system of the industrial chain. The National We cooperated with Shandong University Manufacturing Innovation Center for New Glass Materials has gathered 80 enterprises, colleges and universities and other innovation subjects and production enterprises, forming a "one-stop" market-oriented and industrialized chain from glass R&D to design to engineering.

Nanjing Fiberglass Research & Design Institute: The advantages of school-enterprise cooperation are constantly highlighted.

In response to the needs of industry and national policies, Nanjing Fiberglass Research & Design Institute has actively cooperated with universities such as Tsinghua University and Donghua University in production, education and research. In recent years, it has undertaken seven scientific research projects such as national science and technology support plan, national key special projects and national defense supporting facilities. According to different working conditions, it has developed different surface modification formulations and treatment technologies, improved the temperature resistance, corrosion resistance and oxidation resistance of substrates, and formed a series of ultra-low emission technologies and products. The R&D project Collaborative Deep Treatment Technology and Application of Industrial Flue Gas Multi-pollutants in cooperation with universities won the first prize of national scientific and technological progress, and the Key Technology and Industrialization of Macro Preparation of High Curvature Liquid Level Electrostatic Spinning Nonwovens won the second prize of national technological invention.

▲ Nanjing Fiberglass Research & Design Institute's leading product with independent intellectual property rights – fiberglass coated filter media



Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management

Promoting Digital Transformation

Driven by "Digital Leading Material Creation", we make every effort to build "Digital China Building Materials" which are "efficient, collaborative, shared, intelligent, green and ecological". In 2022, we issued guidelines on the principles of information construction and digital transformation, and built three special information systems for the Group's leadership cockpit, organization and bidding and procurement. We built the world's leading fiberglass "Future Factory" and release the 1.0 standard of intelligent cement plants. The first phase of the Group treasury management and control platform was completed and launched, and the visibility rate of domestic accounts was 100%. The data center of the Group's Internet Industrial Park started construction, the "No.1 Project" of New Tianshan Cement was steadily implemented, and the construction of the Internet data center of Ningxia Building Materials Group Co., Ltd. was promoted in an orderly manner. More than 1.2 million heavy trucks were settled in the "Vehicle Calling" platform, and the GMV reached RMB 43.3 billion.

Upgrading and Renovation Project of MK3 Cement Production Line in La Haute, France

In terms of digitalization of R&D and design, the upgrading and renovation project of MK3 cement production line in La Haute, France undertaken by Sinoma International is the first project to realize visual construction by means of remote collaborative digitalization.



The world's largest fiberglass intelligent manufacturing base

In terms of intelligent production and manufacturing, we promoted the intelligent manufacturing of core equipment and used core equipment to form intelligent production lines. Sinoma International has built more than 20 intelligent cement production lines for New Tianshan Cement. The Group's intelligent fiberglass production line was completed and put into operation.

Xining High-Performance Carbon Fiber Intelligent Production Line

In terms of digitalization of business management and agility of customer services, with digital transformation planning as the key, we actively promoted the added value of data by using huge application scenarios and massive data.



Scan the QR code to watch the Group's promotional video Future Intelligent Manufacturing



▲ The first automatic precursor quality inspection system in the fiberglass industry independently developed by Taishan Fiberglass of Sinoma Science & Technology

Common Prosperity and Development

Prospering Scientific and Technological Innovation Together

Protecting Green Ecology Together



- The "Vehicle Calling" smart logistics platform, big data platform for new glass material industry and big data platform for cement waste heat power generation were selected as pilot demonstration projects for big data industry of the Ministry of Industry and Information Technology
- Seventeen enterprises including Tianjin Cement Industry Design & Research Institute Co., Ltd. were selected into the list of typical cases of digital transformation of intelligent manufacturing in the building material industry in 2022 by the Ministry of Industry and Information Technology
- China Jushi Co., Ltd., Bengbu K&D Technology Co., Ltd., Sinoma Jiangxi Insulator and Electricity Co., Ltd. and Zhengzhou Ruitai Refractory Materials Technology Co., Ltd. were selected as the list-breaking units of the 2022 Intelligent Manufacturing Demonstration Factory of the Ministry of Industry and Information Technology
- Tianjin Cement Industry Design & Research Institute Co., Ltd. was selected into the publicity list of excellent scenes of intelligent manufacturing in 2022 by the Ministry of Industry and Information Technology, and was selected as the "Top Ten First Exhibition Achievements" of the Fifth Digital China Construction Achievements Exhibition, which is also the only selected enterprise in the building material industry.
- The Linli South "5G + Intelligent Mine" was accepted according to the Digital Mine Construction Guide

China Jushi: The first in the industry and the world! China Jushi's intelligent manufacturing base is fully completed

On November 2, 2022, the completion ceremony of China Jushi's intelligent manufacturing base was held in Tongxiang Development Zone, Zhejiang Province, marking that China Jushi's intelligent manufacturing base, which took 5 years to build, has been fully completed and achieved the expected output with high efficiency and quality. In 2017, China Jushi invested over RMB 14 billion to start the construction of intelligent manufacturing base of Tongxiang Headquarters. Nowadays, four super-large reinforced fiberglass production lines and three super-large electronic fiberglass production lines have been completed in Tongxiang Headquarters, forming an annual production capacity of 600,000 tons of reinforced yarn and 800 million meters of electronic cloth. The strategy of "rebuilding a Jushi" has been completed perfectly. The operation of the base has also made China Jushi rank first in the industry and the world in various major production technology indicators such as capacity scale, production efficiency, production cost and quality control, becoming the "future factory" and "lighthouse factory" leading global fiberglass manufacturing.



Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management

Fostering Achievements of Technological Innovation



Scan code to watch
The Imprint of Triumph and the Dimension of China

We actively build the source of original technologies in the field of inorganic nonmetallic materials, organize the implementation of the Group's source of original technologies and "the open competition mechanism" for key & core technology research, focus on the low-carbon development of basic building materials and bottleneck and cutting-edge technologies in the field of new materials, strengthen basic research and applied basic research, attach great importance to the creation, protection and application of intellectual property rights, vigorously implement the intellectual property strategy, strengthen the management and application of intellectual property rights of strategic new materials, and strive to serve the "Top Priorities of the country" with the "Pillar of the Country" and promote scientific and technological achievements from laboratories to the market to better support the needs of national industrial development.

In 2022, the Group built a composite materials digital simulation platform for civil aviation, and delivered the first batch of C919 passenger and cargo cabin floors. The 8-meter level fuselage panel of CR929 wide-body passenger aircraft was successfully developed, and the first flight installation parts of CJ1000A turbofan blades were delivered. It newly undertook 7 major research tasks such as large aircraft composite materials, high-performance carbon fiber and high-level radioactive nuclear waste liquid treatment, as well as 9 national key research and development projects during the 14th Five-Year Plan period. A large number of new materials were used in national major projects such as the Mengtian space lab module, Shenzhou-14 and Tianzhou-4. The construction of the low-carbon inorganic nonmetallic material industry chain of the Group is progressing smoothly, and China Jushi has won the China Gold Patent Award.

Harbin FRP Institute: Support "Daoda Constellation"

The "Anxi Tieganyin-2" satellite was successfully launched

At 11:30 on April 30, 2022, China successfully launched the "Daoda Constellation" and "Anxi Tieganyin-2" satellites (including five satellites in total) in the East China Sea with the Long March 11 sea-launched remote three carrier rocket. The satellites successfully entered the scheduled orbit and the launch mission was a complete success. Harbin FRP Institute participated in the development and production of composite components such as the main load-bearing structure and light shield of "Daoda Constellation" satellite, and also participated in the production of composite components. At the same time, Harbin FRP Institute participated in the design of all composite components in the "Anxi Tieganyin-2" satellite camera and some composite components in the satellite, and provided a lot of development experience and schemes in the design of composite components. During the production, it optimized the molding process, broke through the technological difficulties, and finally realized the integrated molding of carbon fiber composite thin-walled special-shaped components, meeting the requirements of low weight, high load and high precision.



Data Review 2022

Included in the central enterprises in 2022 Achievements in the catalogue of scientific and technological innovation achievements

5 Term



Formulate and revise international standards

10 Term



Cumulative effective patents reach

22,425 Term



03



Protecting Green Ecology

Ecological civilization construction is an important feature of socialism with Chinese characteristics for a new era, and it is also an important content of realizing the Chinese dream of the great rejuvenation of the Chinese nation. CNBM has always adhered to the development concept that "lucid waters and lush mountains are invaluable assets", seized the strategic opportunity of structural adjustment of building materials industry, focused on improving green management, practicing green production and optimizing green services, and made every effort to build a safe, reliable, economical, efficient, green and intelligent production and operation system, leading China's building materials industry to move towards green, low-carbon and sustainable development, and promoting harmonious coexistence between industrial development and environmental protection.

4.242

Expenditure on environmental protection and ecological restoration was RMB 4.242 billion

75

There are 75 state-level green factories

43

There are 43 national-level green mines

Picturesque Sinoma Anhui Circular Economy Industrial Park

Common Prosperity and Development

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Protecting Green Ecology Together

Strengthening Green Management

Guided by Xi Jinping's ecological civilization thought, we have conscientiously implemented the decision-making arrangements of the CPC Central Committee and the State Council on ecological environmental protection and the work requirements of relevant ministries and local governments, and made continuous efforts in ecological environmental protection system construction, pollutant control and emission reduction, energy efficiency improvement of energy-intensive and high-emissions projects, carbon dioxide emission control, environmental protection inspector rectification, green development of enterprises, etc., comprehensively investigated and eliminated all kinds of potential environmental risks, strictly controlled the risks of environmental emergencies, kept the bottom line of environmental quality, and shouldered the political responsibility for ecological environmental protection.

In 2022, we compiled the implementation plan of the Group for "Carbon Peaking and Carbon Neutrality", solidly promoted the "dual carbon" goals, and achieved phased results in the rectification of central ecological and environmental protection supervision issues. Among the 46 rectification tasks, 44 have been completed, and 2 tasks have reached the chronological progress. People's Daily carried out a series of reports on the rectification results of group inspection and rectification, among which the experience, results and excellent practices of the inspection and rectification of China United Cement Mine in Ju County were published as positive typical cases of "one-step rectification" and "thorough rectification".

The ecological and environmental protection system and mechanism have been continuously improved

- All levels of the Group have continuously improved the eco-environmental protection system, and the eco-environmental protection management system has achieved full coverage and rapid linkage.
- The information reporting mechanism has been more perfect, forming an information monitoring and reporting mechanism that reports energy consumption and pollutant emissions on a monthly basis, investigates and rectifies ecological and environmental problems on a quarterly basis, and schedules the completion of pollution prevention and control tasks throughout the whole level.

Training, education, supervision and inspection have been promoted simultaneously in various forms

- We continued to carry out annual training on energy conservation and ecological environment protection of CNBM, with more than 1,200 participants.
- We organized the first Energy Conservation and Environmental Protection Knowledge Competition of China National Building Materials Group, and created a strong atmosphere of "promoting learning by competition, promoting doing by learning, and having a competitive spirit".



We effectively implemented the responsibility of energy conservation and ecological environmental protection

- We completed the assessment of energy conservation and ecological environment protection in 2021.
- According to the mechanism of "one policy for one enterprise", we signed the 2022 annual assessment responsibility statement, defined the qualitative, quantitative and veto assessment indicators, and implemented the ecological and environmental protection responsibility.
- We strictly dealt with environmental protection administrative issues, rectified 12 environmental protection administrative penalties, and implemented environmental protection responsibilities.



Creating a better world with materials

Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management

Practicing Green Production

We always adhere to the "Three Principles of Green Manufacturing", highlight green environmental protection in the whole life cycle of raw burning material selection and manufacturing, devote ourselves to providing reliable, safe and healthy building materials products, share effective energy-saving and environmental protection technologies and management experience, and continuously broaden new green roads for exploring the production mode of harmonious coexistence between industry and nature and realizing high-quality development.

Green material selection

On the premise of ensuring product quality, relying on scientific and technological innovation, we continue to increase the comprehensive utilization of solid waste resources, increase the proportion of industrial waste residues such as slag, steel slag and fly ash replacing natural mineral raw materials, and realize turning waste into wealth. The annual consumption of solid waste of the Group is 104 million tons. At the same

time, we vigorously develop cement waste heat power generation from cement kilns, with a cumulative installed capacity of about 2,000 MW and an annual power generation of about 8 billion kWh, reducing carbon dioxide emissions by about 4.56 million tons. In 2022, BNBM used 367,000 tons of biomass fuel, and has become the largest biomass alternative fuel enterprise in the building material industry in China.

China United Cement Linyi: Photovoltaic power contributes to the green development of enterprises

Electricity is an important energy source for enterprises producing cement products. In the face of rising coal prices, increased costs, and reduced profits, China United Cement Linyi invested RMB 60 million to build a 6.5 MWp distributed photovoltaic grid-connected power station on the basis of the existing low-temperature waste heat power generation of cement kiln. This can generate 10 million kWh of electricity and reduce carbon dioxide emissions by about 5,703 tons throughout the year. In addition, investment has been made in the construction of photovoltaic power generation sheds with an annual power generation capacity of about 300,000 kWh in living areas and office areas, as well as the construction of a floating fishing and light complementary photovoltaic power generation system with an annual power generation of about 50,000 kWh was built in the pond of the factory. The method of "connecting to nearby power sources, generating electricity for oneself, and selling excess electricity to the power grid" was adopted, greatly reducing the cost of electricity purchased by enterprises, promoting clean production and low-carbon production, and producing great value in economic benefits and environmental protection.



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Green Manufacturing

Guided by "green development" and centering on the national strategic orientation, we have continuously developed green technologies, vigorously promoted complete sets of technical equipment suitable for comprehensive treatment of flue gas desulfurization and flue gas denitration in building materials kilns, ensured the completion of over-limit treatment, promoted the synergy of pollution reduction and carbon reduction, continuously reduced the intensity and total amount of

pollutants and carbon emissions, and made every effort to protect the blue sky, clear water and clean land. Sinoma International earnestly fulfilled its duties as the "main force", actively undertook the Group's "energy-intensive and high-emissions" technological transformation projects, and transformed 15 projects with high standards; Sinoma Pingxiang was successfully selected into the 2022 Green Manufacturing List of the Ministry of Industry and Information Technology. BNBM was awarded the "Green Design Demonstration Enterprise of Industrial Products" by the Ministry of Industry and

Information Technology; the flue gas upgrading and transformation project of Triumph Science & Technology Longhao Company adopted ceramic filter pipe integrated desulfurization, denitration and dust removal system to meet the emission requirements of Class A enterprises; China Jushi adopted technologies such as reclaimed water reuse, MBR membrane treatment and reverse osmosis purification to achieve compliant discharge and recycling of sewage, and 51 plasterboard production lines have achieved "near zero emissions".

Data Review 2022

Year-on-year decrease in total energy consumption

13.3 %



Year-on-year decrease in comprehensive energy consumption per RMB 10,000 of output value

6.1 %



Investment in technological transformation to fully promote "energy-intensive and high-emission" governance

5.8 RMB 100 million



Number of "one policy for one line" completed

64 line

Clinker line



and

129 line

Overlimit governance of grinding line



Year-on-year decrease in nitrogen oxides

28.3 %

Year-on-year decrease in sulfur dioxide

31.8 %

Year-on-year decrease in fume (dust)

31.2 %



Hunan Linli Southern New Materials Technology Co., Ltd. adopts dust-free medium-deep hole millisecond blasting to achieve zero pollution and zero emission

Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management

Sinoma Science & Technology Hydrogen Energy Bus



The world's longest wind turbine blade produced by Zhongfu Lianzhong: 123-meter super-long blade



The world's first one-kiln eight-line photovoltaic glass production line with a daily melting capacity of 1,200 tons contracted by CNBM Engineering was successfully introduced in Tongcheng, Anhui Province

Green Products

We insist on integrating the concept of low-carbon and environmental protection into the whole process of product research and development, design, production, packaging, sales and recycling, manufacturing low-carbon products with the lowest possible consumption and emissions, providing customers with reliable, safe, green and low-carbon cement products, guiding glass to "electronic, photovoltaic, intelligent and energy-saving" transformation and upgrading, promoting the application such as high-end and serialized fan blades and solar thin film battery modules in the development of new energy industry, and actively promoting simplified packaging and using renewable packaging materials as much as possible to reduce packaging waste while ensuring product quality and transportation safety. In December 2022, BNBM, China Jushi, Sinoma Science & Technology and Tianjin Cement Industry Design & Research Institute Co., Ltd were selected into the fourth batch of "Green Design Demonstration Enterprises of Industrial Products" announced by the Ministry of Industry and Information Technology.

Services for major national projects and key projects

- Low alkali cement is widely applied in high-speed railway construction
- Low-heat cement is applied in national key projects such as Baihetan Hydropower Station
- High-performance carbon fiber is applied in the aerospace field
- Fiberglass composites are widely used in some fields such as new energy and new energy vehicles
- Green building materials such as plasterboards are widely used in famous buildings such as the Great Hall of the People, Beijing Winter Olympics venues, China world Trade Center and Shanghai Lujiazui Complex

Services for the people's better life

- Phase change energy-saving plasterboard partition system can make full use of natural energy to realize automatic adjustment of indoor temperature, reduce building energy consumption and increase living comfort
- Aldehyde-free plasterboards can quickly capture, strongly adsorb indoor formaldehyde and decompose it. Luban universal board realizes no construction waste and harmful substances on the construction site, and creates a green and healthy home

Green Operation

We actively practice the concept of green operation, focus on mine reclamation and factory greening, promote the construction of national green mines and garden-style ecological factories, and build a number of factories in gardens, grasslands and forests. At the same time, we pay attention to biodiversity conservation, vigorously advocate green office, extensively carry out various environmental protection publicity and education and environmental protection public welfare activities, consolidate green consensus, and make saving energy and resources and protecting ecological environment become the mainstream way of production and life.

Data Review 2022

The number of video conference replacing on-site conferences

41,525 Session



Scan code to watch Animals Have Settled in Our Green Factory

Tengzhou Company of Beijing Glass Research Institute: The factory is good in ecology, and migratory birds fly here happily

Since its establishment in Tengzhou, Shandong in 2017, Tengzhou Company of Beijing Glass Research Institute has always placed safety and environmental protection in a prominent position. Within the company's park, you can see small bridges, flowing water, and households, as well as birds singing, flowers fragrant, and wild ducks. Xiaofeng River in Tengzhou flows through the company's park. The company actively protects river water, preventing a drop of oil from falling to the ground, integrating ensuring clean water source into daily inspections, turning it into normal work, and shouldering the responsibility of protecting clean water source of mother river. In the summer of 2022, Xiaofeng River attracted egrets to stay in the river for many days, and in autumn, more than 30 mallard ducks, national second-class protected animals, began to stay in the river for a long time, becoming a "birds' favorite place" in the company.

In 2023, the company continued to act and took a number of measures to effectively improve the river bank environment by pruning the hedges on both sides of the river; turn the company's waste channel steel into treasure, and lay a river bank walkway to attract a large number of employees to visit during lunch break; set up promotional slogans and wildlife introduction boards on both sides of the walkway to promote bird protection and protect the environment, and launch a proposal for river bank protection to drive the employees of the whole factory to protect the beautiful factory environment and wildlife.



Providing Green Services

As the world's largest comprehensive building materials industry group, the world's leading new material developer and integrated service provider, we always uphold the corporate mission of "creating a better

world with materials" and strive to provide customers with various types of green products and services, and help the green industrial structure and service level to be continuously optimized and upgraded.

Professional Technical Services

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 2022, "Infrared High Radiation Energy-saving Coatings for Glass Furnace" and "New Gradient Composite Thermal Insulation Technology" independently developed by Triumph Science & Technology Institute of Energy Conservation and Environmental Protection were selected into the Recommended Catalogue of Energy-saving Technology and Equipment in the Field of National Industry and Information Technology (2022 Edition).



Guangxi Jinli Cement Plant collaborated on the disposal of industrial waste generated by surrounding thermal power plants, steel plants, etc.

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 and carbon verification. China Certification and Inspection Group has bravely served as a strong guardian of the indoor environment, providing indoor decoration and environmental control services for projects such as the Winter Olympics Project, the administrative office area of Beijing City Sub-center, Venues of Asian Games Hangzhou, Guangzhou Baiyun International Conference Center.



Waste Incineration Power Generation Boiler Project of Nantong Wanda City of Sinoma Energy Conservation

Ecological Value-added Services

We purify the ecological environment with green services, cooperate with cities to turn waste into wealth, and utilize the high-temperature characteristics of cement kilns to carry out harmless disposal of waste. The number of cement kiln cooperative disposal production lines has increased to 51, with an annual disposal scale of 5.33 million tons, which strongly promotes cement industrialization as purifiers and scavengers, and becomes builders of beautiful cities, participants in environmental governance and sharers of ecological benefits.



Sintering Machine Waste Heat Power Generation Boiler Project of Nantong Wanda Steel Plant of Sinoma Energy Conservation

Comprehensive Service of Ecological Restoration

We actively explore environmental protection service projects, undertake environmental assessment, completion environmental protection acceptance and pollutant discharge permit of construction projects, expand slope optimization and geological environment restoration and treatment projects, and provide green mining and mine treatment services for more than 40 cement plants at home and abroad, restoring the natural environment to the maximum extent and reducing geological disasters caused by mineral development. In June 2022, the implementation plan for the ecological restoration demonstration project of abandoned mines in Baili Mining Area, Fuxin, Liaoning Province, undertaken by Liaoning Corps, passed the expert review organized by the Ministry of Finance and the Ministry of Natural Resources, and was publicized on the website of the Ministry of Natural Resources.



Ningxia Saima Mine Branch Factory ecological restoration area

Common Prosperity and Development

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Protecting Green Ecology Together

Enabling a Low-carbon Future

We take high-quality development of the industry as our own responsibility, take the lead in practicing the "dual carbon" goals, focus on carbon reduction, carbon sequestration and carbon management, and strive to be the vanguard in implementing the plan and action for carbon peak in the industry. In 2022, we strengthened the strategic leadership and layout of the industry in the field of "dual carbon", and joined 26 central enterprises, universities and other "dual carbon" innovation alliances in the field of building materials to explore a new financial model of "dual carbon" transformation. In collaboration with the People's Bank of China, we have completed the Report on Low-

carbon Transformation Standards of Building Material Industry, formed 83 lists of transformation technologies in five industries, including cement and glass, with a transformation support amount of RMB 350 billion, formulated and issued the CSTM group standard of the Guidelines for Compilation of ESG Reports of Building Material Enterprises, promoted the establishment of the Green Low-carbon Transformation Standards of Building Material Industry, and compiled the Implementation Plan for the Chain Leader of Low-carbon Inorganic Nonmetallic Material Industry Chain, making every effort to achieve the "dual carbon" goals.



The world's first carbon capture and purification project in glass melting furnaces of Triumph Science & Technology has been put into production, with an annual output of 50,000 tons, creating a model for carbon reduction, carbon sequestration and carbon management in the global glass industry

Solidly promoting the dual carbon goals and tasks

- We deliberated and approved the implementation plan of the Group's "Carbon Peak and Carbon Neutrality", defined the Group's emission reduction goals, set up 12 key tasks, and established the Group's major green and low-carbon transformation projects.

The data foundation of carbon emissions has been further consolidated

- We organized the investigation and rectification of carbon emission data quality problems of key emission enterprises and technical service institutions affiliated with the Group, strengthened the quality management of carbon emission data, and clarified the importance of basic carbon emission data.
- We compiled carbon emission data monitoring and accounting report specifications for cement enterprises, unified data monitoring and accounting methods, established a carbon emission data management information system, and strengthened the carbon emission management team.

Creating a carbon emission reduction demonstration enterprise

- All relevant enterprises and experts of the Group actively participated in the Implementation Plan for Carbon Peak in Building Material Industry and the special work of "Dissecting Sparrows" for Carbon Peak and Carbon Emission Reduction of Building Materials Federation. All the work was highly recognized by the Ministry of Industry and Information Technology, the National Development and Reform Commission, the Building Materials Federation and other departments and highly concerned by the industry, and received a thank-you letter from the Building Materials Federation.

Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management



<ul style="list-style-type: none"> The Group was selected as a "leading" enterprise of China's industrial carbon peak 	<ul style="list-style-type: none"> The world's first carbon capture and purification project in glass melting furnaces of Triumph Science & Technology was put into production
<ul style="list-style-type: none"> CTIEC's "Practicing Dual carbon Action and Creating Green Project" was selected as a typical case of green and low-carbon development in the Blue Book of Corporate Social Responsibility 	<ul style="list-style-type: none"> China Certification and Inspection Group completed the carbon footprint accounting of 50 enterprises
<ul style="list-style-type: none"> CNBM built 6 intelligent environmental protection production lines, eliminated 17 inefficient production lines, and cut overcapacity by 10.91 million tons 	<ul style="list-style-type: none"> The industry's first carbon dioxide online monitoring and metering system was put into operation in Fujian Sanming South Cement Co., Ltd.
<ul style="list-style-type: none"> China Jushi's world's first fiberglass zero-carbon intelligent manufacturing base was officially established in Lianshui, Jiangsu 	<ul style="list-style-type: none"> Luoyang Longhao Glass was awarded the title of "National Building Material Industry Carbon Peak Pilot Enterprise"

Tianjin Cement Industry Design & Research Institute Co., Ltd.: The "dual carbon" digital public service platform adds intelligence to zero carbon emissions, empowers regional environmental protection

In line with the country's demand for green and high-quality development, Tianjin Cement Industry Design & Research Institute Co., Ltd. has independently developed a "dual carbon" digital public service platform, including carbon asset management platform, factory carbon emission digital accounting platform, equipment product carbon footprint accounting platform, green low-carbon building carbon platform and regional energy and carbon dual control platform, providing enterprises, parks and governments with one-stop services for management, accounting, evaluation and reform around the "dual carbon" goals, helping find out the carbon emission data with one click and realize carbon management on one screen. The achievements of the platform have won the third prize of the Leading Group of Raw Material Industry in the Third China Industrial Internet Contest, the Excellent Project Award of the BRICS Industrial Innovation Contest in 2022, and the Excellent Solution of Industrial Internet APP of the Ministry of Industry and Information Technology, the Excellent Case of the Fourth Global Industrial Internet Conference, and the Classical Case of the National Building Material Enterprises Modernization Innovation Achievements of the Year 2021-2022.





中材水泥

Keeping the "Top Priorities of the Country" in Mind

Part II

Services for Construction

Response to the United Nations Sustainable Development Goals (SDGs)



04



Sharing Development Results



54

05



Marching Towards a Better Future



64

06



Talking about Responsibility Management



74

04



Sharing Development Results

Talent is the key factor to promote the high-quality development of enterprises. CNBM implements the people-oriented development concept, firmly ensures safety, always safeguards employees' rights and interests, cares for employees, pays attention to the all-round development of employees' morality, intelligence and physique, and builds a platform for employees to realize their life value, so that employees and enterprises can grow together.



208,857

The total number of employees is 208,857

1.6

RMB 1.6 billion was invested in occupational health and safety

11.105

Expenditure on condolences and assistance to special and difficult employees amounted to RMB 11.105 million

Common Prosperity and Development

Prospering Scientific and Technological Innovation Together

Protecting Green Ecology Together

Zhou Yuxian, Party Committee Secretary and Chairman of the Group, went to Jiujiang, Jiangxi Province to inspect and guide the work safety of enterprises such as China National Building Materials New Materials, Ruichang CNBM Optoelectronic Materials Co., Ltd. and Sinoma Science & Technology (Jiujiang)



Li Xinhua, Party Committee Deputy Secretary and General Manager of the Group, went to subordinate enterprises to inspect and guide safety work

Safety and Prudence

Perfecting safety management

CNBM comprehensively implemented General Secretary Xi Jinping's important exposition on work safety, firmly established the concept of "life first, safety first", continuously improved the safety management system, established a regular meeting system of the Group Safety Committee, improved the mechanism of interviews on work safety accidents, implemented the safety inventory management of member enterprises, and strictly carried out safety production inspection and

hidden danger investigation, promoted special rectification of work safety, implemented the main responsibility of work safety of member enterprises at all levels, and solidly carried out a series of activities such as the creation of "Zero Violation" outstanding individuals and organizations, "Work Safety Month" and "Year of Work Safety Enhancement", so as to promote the continuous improvement of the Group's safety risk management and control capabilities.

Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management

Improving emergency management

The Group has continuously strengthened the emergency capacity building of key personnel in production and operation, actively carried out safety emergency plan drills, continuously improved the emergency management level and emergency response ability of key personnel, and prevented work safety risks and safety accidents. In 2022, the Group organized 13,887 safety emergency drills with a total of 362,412 participants.

Conducting security emergency drills

13,887 accidents



Number of recordable occupational accidents

16 件

Among them, the death toll of safety liability accidents was 7

Security emergency drills coverage

362,412 persons



Sinoma Science & Technology Young Workers Firefighting Skills Competition



China Construction Investment Logistics launched a joint fire evacuation exercise

Common Prosperity and Development Prospering Scientific and Technological Innovation Together Protecting Green Ecology Together

Adhering to safety enhancement with science and technology

We continued to deepen the strategy of "safety enhancement with science and technology", increased investment in work safety, used modern scientific and technological means such as big data and artificial intelligence to control risks, eliminate hidden dangers and prevent safety accidents, accelerated the process of scientific and technological informatization of work safety, and further improved the level of the intrinsic safety of enterprises.

In order to ensure the development of more than 2,000 QR code intelligent ledgers to comprehensively cover safety inspections, Sichuan Golden Cement Co., Ltd. has carried out work on fire-fighting equipment, safety belts, training and education, management of related parties, gas detection in limited space, mobile vehicles, and uploading image data for operation approval.

An intelligent security platform was built in Huaikan Nanfang Cements Co., Ltd., and "security access" and "energy isolation" management were implemented for high-risk areas, and "risk early warning" management was implemented for low- and medium-risk areas. By invading cameras, video forensics, audible and visual alarms and other equipment, timely reminded the personnel who mistakenly entered the dangerous zone, accurately sent the risk warning information to the security supervisors, and effectively reduced the security risk.

Zhejiang South Cement Co., Ltd.: The first intelligent safety management platform for cement enterprises was successfully launched

On June 10, 2022, the first intelligent safety management platform for cement enterprises of Zhejiang Southern Cement Co., Ltd. was successfully launched in Changshan Southern Cement Co., Ltd. The intelligent safety management platform has 20 sub-modules, including safety shooting, anti-violation, operation safety, related party management, tools management, education and training, risk management, occupational health management, objectives and responsibilities, institutionalized management, emergency management and environmental protection management. The platform integrates new-generation digital technologies such as IoT, artificial intelligence and big data with all elements of safety and environmental protection, and is constructed according to the eight core elements of Basic Standards for Enterprise Work safety Standardization. It realizes the "one-click analysis of safety and environmental protection system, one-stop service for safety and environmental protection learning, a point-to-point inspection of project engineering, the all-around landing of leaders and their teams, and visual direct connection of construction site", effectively improving the work efficiency and digital intelligence level of work safety management.



Sharing Development Achievements Marching Towards a Better Future Responsibility Management

Cultivating safety culture

CNBM has attached great importance to the construction of safety culture, taken the Work safety Month as an opportunity, continuously strengthened the publicity and training of safety culture, safety concept and safety skills, further strengthened the creation of enterprise safety culture, created a work safety atmosphere in all directions and through multiple channels, and enhanced employees' safety awareness and ability.



The sixth branch of Jushi Group Co., Ltd. holds safety month launch oath-taking ceremony

All member enterprises actively organized employees to participate

"What do you know about the new law on work safety"

Network knowledge contest



Cumulative score of **620** million points



Cumulative number of participants **5.4** 10,000 persons



竞赛总答题数 **424** 万



Ranked **23** rd in terms of central enterprise points



China Building Materials Academy organized its affiliated enterprises to study the TV feature film "Life is of Paramount Importance - Studying General Secretary Xi Jinping's Important Exposition on Work safety", and conducted 74 special seminars, centralized lectures, training and counseling on work safety, with 2,479 participants.

CNBM Co., Ltd. actively deployed the principals of member enterprises to carry out work safety lectures, and the principals of affiliated enterprises gave a total of 1,019 public lectures on work safety.

Sinoma International's affiliated enterprises actively carried out the activity of "8.16 Safety Publicity and Consultation Day", and publicized work safety policies and regulations, emergency evacuation and self-rescue and mutual aid methods through online and offline exchanges and publicity and consultation activities.

Triumph Science & Technology organized the first pre-exam training for registered safety engineers during the Work Safety Month, and more than 410 trainees participated in the training online and offline.

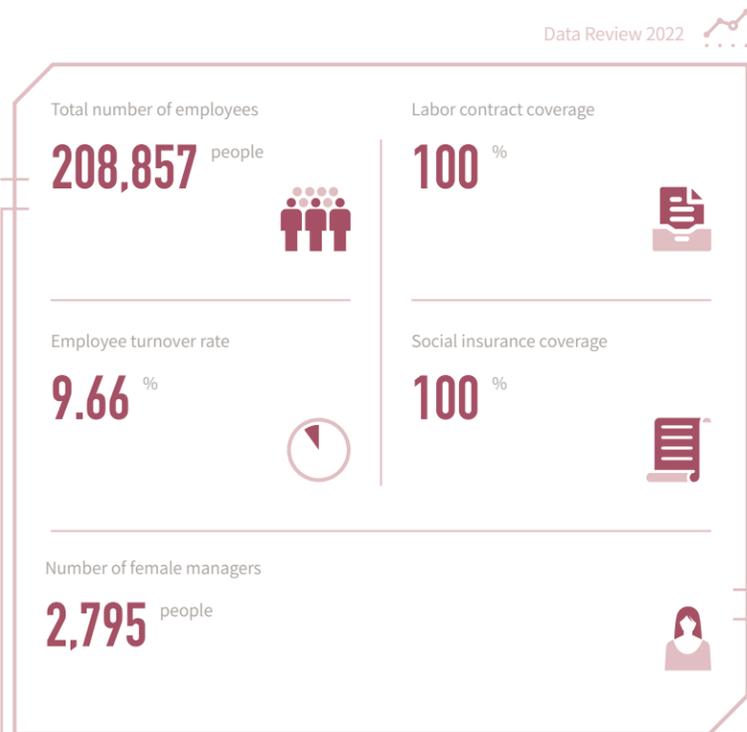
Sinoma Energy Conservation Ltd. combined the "Work Safety Month" with the "Ankang Cup" competition, and more than 1,800 people participated in the "Ankang Cup" test paper-answering activities.

Common Prosperity and Development Prospering Scientific and Technological Innovation Together Protecting Green Ecology Together

Employee Rights and Interests

Protecting the rights and interests of employees

CNBM adheres to the recruitment principle of fairness, impartiality and openness, adheres to equal employment, does not take gender, age, nationality, ethnicity, religious belief, skin color, language, etc. as recruitment requirements, and opposes employment discrimination. The Group signs labor contracts with employees according to law, pays social insurance in full, protects employees' personal privacy and information security, provides competitive salaries and benefits, and builds a fair, inclusive and diversified workplace environment.



Practicing democratic management

The Group implemented the spirit of General Secretary Xi Jinping's important exposition on the working class and trade union work. Trade union organizations at all levels adhered to the employee-centered work orientation, constantly improved the system of workers' congress and factory affairs disclosure work norms, built important channels for democratic participation, democratic management and democratic supervision, gave full play to the role of trade unions as a communication bridge, and effectively protected the employees' right to be informed, participate, express and supervise.



The Group organized the first session of the second congress of staff (members) to carry out the trade union renewal work

Sharing Development Achievements Marching Towards a Better Future Responsibility Management

Employee Development

Carrying out skills training

Talent is the first resource for enterprise development. We actively organized all kinds of special work for personnel training, and initially formed a special training system for leading scientific and technological talents, young scientific and technological talents and skilled talents. At the same time, we continued to strengthen the training of cadres and talents and actively held training courses for EMT, directors and supervisors, and middle-aged classes



The Group holds a conference on talent work

to provide talent guarantee for the high-quality development of enterprises. In 2022, two members of the Group were selected for the second "Great Country Craftsman" program of central

enterprises, and three members won the honorary title of national technical experts.



Smoothing career path

The Group adhered to the strategy of "strengthening enterprises with talents", formulated the 14th Five-Year Plan for human resources, set up the leading group for talent work of the Party Committee of the Group, and optimized the structure of management talents, scientific and technological talents and skilled talents, focused

on the construction of scientific and technological talents teams, and carried out the construction of five talent teams, including directors and supervisors, scientific and technological talents, management talents, skilled talents and Party workers, so as to fully stimulate the vitality of internal talents.

Strengthening the construction of directors and supervisors We held a symposium on strengthening the construction of the Board of Directors and a symposium on centralized management by specified departments of directors and supervisors. There are 3 full-time directors and supervisors and 7 part-time external directors.

Strengthening the construction of outstanding young cadres We formulated the Implementation Plan for the Construction of Excellent Young Cadres during the 14th Five-Year Plan Period, established a young cadre pool by classification and stratification, forming a pool of 204 young cadres, and dynamically reserving talents.

Strengthening exchanges of cadres between primary-level and headquarters cadres. Three people were promoted from enterprise exchange to head of the headquarters department, and 12 people at the headquarters were transferred to primary-level enterprises. 8 people of member enterprises went to the headquarters to work and train.

Optimizing the team building of secondary enterprises According to the development of the Group's main business and the needs of sector integration, we formulated the personnel selection and employment plan, and strengthened the optimization of teams and cadres.

Common Prosperity and Development

Prospering Scientific and Technological Innovation Together

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Employee Care

Paying attention to occupational health

CNBM paid close attention to the health level of employees, established and improved the occupational disease prevention and work injury prevention system, and continuously practiced the concept of occupational health culture and promoted the coordinated development of enterprise construction and employees' health by carrying out occupational health examination, strengthening labor protection and health knowledge popularization, first aid skills training and improving production technology. In 2022, three online lectures on psychological counseling and first aid knowledge and skills training were organized for overseas employees, and there were no new employees suffering from occupational diseases.

Caring for the life of employees

Employees are the most precious wealth of enterprises. We constantly improved the construction of staff activity venues and facilities, regularly organized various recreational and festival activities, created a strong atmosphere of happy work and healthy life, and constantly enhanced employees' sense of happiness and achievement.



Caring for employees with difficulties

CNBM always adheres to the concept that "enterprises are humanized, enterprises exist for people, enterprises rely on people, and enterprises love people", and continuously pays attention to key groups. Implementing the Measures for the Implementation of Staff Assistance of the "Shanjian Charity Fund" of China National Building Materials Group Co., Ltd., we reviewed the scope and conditions of assistance objects at each level.

In 2022, we continued to play the role of "Shanjian Charity" Fund, with a total of RMB 2.505 million of assistance funds, helping 105 employees in difficulty, solving their practical difficulties and effectively playing the role of helping the needy.



Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management



The Group holds a public welfare lecture on health welfare knowledge of "loving life, protecting health"



The Group launches the "March 8" movie-watching activities



Beijing New Building Materials Co., Ltd. holds sports meeting



Changde South Cement Co., Ltd. holds a reading sharing meeting



South China Materials Co., Ltd. hold flower arrangement activities



Beijing New Building Materials Co., Ltd. organizes the New Year visit and condolence activities



Bengbu Triumph sends condolences to workers in difficulty

05



Marching Towards a Better Future

With utter sincerity, CNBM firmly established the vision of a community with a shared future for mankind, unwaveringly promoted the process of international development, actively implemented the Belt and Road Initiative and promoted the prosperity and development of local communities, consolidated the achievements in poverty alleviation, continued to promote rural revitalization, actively participated in social charity, and contributed to building a world of lasting peace, universal security, common prosperity, openness, inclusiveness, as well as a clean and beautiful environment.



196

There are 196 overseas enterprises (institutions) of the Group

27

Implementing 27 assistance projects

76

Distributing in 76 countries

79.4

Investing RMB 79.4 million in assistance funds

CNBM's "Shanjian" Colorful Classroom Activity

Common Prosperity and Development

Prospering Scientific and Technological Innovation Together

Protecting Green Ecology Together

Open Cooperation

Building materials help "Hard Connectivity"

China National Building Material Group Co., Ltd. carries out the mission of "Materials Create a Better World", constantly innovates the "Going Global" model around "Three Main Businesses and Four Major Sectors", sets up 196 overseas institutions in 76 countries and regions around the world, invests in 45 fixed assets and equity acquisition projects in 27 countries, builds nearly 500 high-quality cement and glass projects around the world, and invests and



builds in 32 overseas warehouses and building materials supermarket chains in 13 countries, creating a shining

"China Building Materials" business card on the "Belt and Road" Initiative.

The Zambia Industrial Park of China National Building Material Group Co., Ltd.:

Drive "Made in China" to go global

China National Building Material Group Co., Ltd. actively responds to the "Belt and Road" Initiative, explores a new mode of "Going Global", and builds a comprehensive building materials industrial park in Zambia. During the construction period, the industrial park highlights the "Chinese efficiency", and adopts advanced and mature new dry cement production technology, selects domestic mature and reliable technology and equipment, driving the domestic equipment manufacturing industry to "Going Global", and demonstrating the strength of "Made in China" with the synergistic effect of the industrial park. After the production of the market to identify the product positioning, we vigorously developed the "cement +" business, and insisted on technological innovation. The declared "New Design Patent of Double Drum Screen" was authorized and certified by Zambia Patent Office. The industrial park integrates the concepts of eco-environmental protection, green development and local integration into the construction of the park, highlights the new connotation of green building materials and green development, strictly implements the Zambian environmental protection standards, and adopts energy-saving and environmental protection production technology, actively building a green forest factory. The Zambia Industrial Park of China National Building Material Group Co., Ltd. firmly follows the road of sustainable development and integrates into Zambian culture, which has become an international business card presented by China National Building Material Group Co., Ltd. to the African region.



Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management

Cement Engineering
Egypt GOE6 projects with a daily output of 6,000 tons



Beautiful Overseas Project



New Material Engineering
Nigeria Calcium Silicate Board Production Line



Glass Engineering
Photovoltaic power station with the largest single installed capacity in Europe

Diversified Engineering
Natural gas pipeline project in Songo Island, Tanzania



Logistics Trade Sector
Building Materials Home Supermarket on Papua New Guinea Island



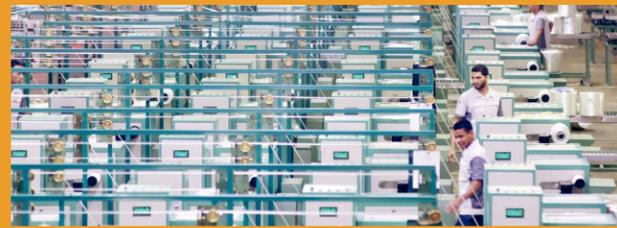
Common Prosperity and Development	Prospering Scientific and Technological Innovation Together	Protecting Green Ecology Together
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Innovation accelerates "Soft Connectivity"

In the process of "Going Global", China National Building Material Group Co., Ltd. has internationalized the leading advantages of new materials in China, occupied the commanding heights of "technology + patent + standard", and carried out joint innovation in science and technology. The Group has participated in and presided over the formulation and revision of 58 international standards, contributing the wisdom of "China Building Materials" for the construction of Community of Shared Future for Mankind.

Jushi Egypt Company: Helping Egypt's manufacturing industry transform and upgrade

Jushi Egypt Company, as an important achievement of the "Belt and Road" Initiative jointly established by China and Egypt, has made Egypt's glass fiber industry grow from scratch and helped Egypt's manufacturing industry jump. Jushi Egypt Company cooperated to establish a state-level joint laboratory, which can further optimize the combination of market factors, realize the internationalization of technical elements and talent elements, and develop the localized glass fiber formula and high melting rate process in Egypt, with the localization rate of raw materials reaching more than 98% and the annual cost reduction of more than 150 million yuan; The Glass Fiber Industry Standards Committee was established in conjunction with the United Egyptian National Standards Committee to study and formulate 20 industry standards and national standards.



Nigerian Company of China National Building Material Group Co., Ltd. held the donation ceremony of metal colored stone tiles and the completion ceremony of "China Corner" house repair



Jushi Egypt Company carry out a donation campaign to the Hope School

Building "Heart Connection" with Emotion

the "Belt and Road" Initiative is a win-win road. China National Building Material Group Co., Ltd. adheres to the "Three Principles" of "contributing to the local economy, cooperating with local enterprises and serving local residents", from "Going Global" to "Going In", deeply cultivating the host country market, carrying out cultural integration, charity and other activities in depth, fulfilling the responsibility of world citizenship with practical actions, and contributing to the strength of "China National Building Materials" for building a beautiful home together.

Sharing Development Achievements	Marching Towards a Better Future	Responsibility Management
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Beautiful Overseas Employees

Take the road, put people first, and benefit the world. More than 20,000 overseas employees of China National Building Material Group Co., Ltd. all over the world, with different skin colors, nationalities and cultures, are reunited in CNBM's big family for the common goal and ideal. They work hard and love their work, study an industry and be proficient in it. And they work together in the construction of the "Belt and Road" Initiative, write wonderful answers in the process of forging ahead, achieve common growth in the development of enterprises, and work together to make big projects and great undertakings in small projects and posts, vividly writing a beautiful blueprint of "sharing beauty" with little by little dedication.



The Group's Peer with Unbounded Heart: The Growth of 100 Overseas Employees of China National Building Material Group Co., Ltd. was officially published

Wei Qiang, General Manager of Saudi YAMAMA Project Department and General Manager of Syrian Project Department

I am willing to use my 20 years of experience to make selfless dedication and meticulous management for Saudi projects, lead the team to build the Saudi project into a project benchmark, and contribute my own strength to the internationalization and localization development of the company.



Sarabov Kerry Valerievich, Deputy General Manager of China National Building Material (Russia) Group Co., Ltd.

I am very grateful to the company for its trust, which made me the deputy general manager of the Russian company. Together with my colleagues, I will try my best to make the company grow and develop better in Russia and be an active practitioner of Sino-Russian friendship.



Ahmed Seliman, Vice President of Jushi Egypt Company

Now I have been working in the company for 11 years. In these 11 years, I have changed from a college student who knows nothing about enterprise production management to a senior executive of a Chinese-funded enterprise with technology and experience, which I didn't dare to imagine at first.



Prosper Ernest Hall, Regional Manager of Marketing Department of Beijing New Building MATERIALS (Tanzania) Co., Ltd.

Beijing New Building MATERIALS (Tanzania) Co., Ltd. is a very good company with complete system, perfect quality control system, good welfare treatment and fair promotion mechanism.



Li's Xiang Lian employee of China Triumph International Engineering Co., Ltd. in Vietnam Representative Office

In the past 10 years since the "Belt and Road" Initiative was put forward, as a witness, I have witnessed the key cooperation projects of the "Belt and Road" Initiative between China and Vietnam from blueprint conception to successful landing to economic benefits. This is an extraordinary 10 years, which is also a decade of continuous transformation and growth for me personally.



Wise Shibru, Cement Mill Section Chief of the Zambia Industrial Park of China National Building Material Group Co., Ltd.

I have been here for almost 5 years, and the Zambia Industrial Park of China National Building Material Group Co., Ltd. is like a big family, witnessing my every step of growth.

Obiagri Clemontina Henshaw, Human Resource Manager of Nigerian Company of China National Building Material Group Co., Ltd.

I love my job, and I will work with other local employees to promote our enterprise and contribute to the local development of the company.

Bettina Spasbo, Deputy Director of R&D Department at CTFSolar, Subsidiary of China Triumph International Engineering Co., Ltd.

Working at CTFSolar is not only satisfying, but also can bring about real change in the world by providing clean energy solutions.

Su Hairong, Purchasing Manager of the Purchasing Department of Sinoma Energy Conservation Ltd. Branch

During the six years of working overseas, my biggest feeling is that it is only when I go abroad that I know how much confidence and support my motherland has given us.

Abdullah Aribi, Trade Supply Chain Manager of Algeria Company of China National Building Material Group Co., Ltd.

At the China-Arab League Summit held in Saudi Arabia, I was encouraged by the speech on the "Belt and Road" Initiative, and I am determined to actively respond to this initiative: Promote cultural integration and cultural exchanges between China and Arab countries, especially with Algeria.



Common Prosperity and Development	Prospering Scientific and Technological Innovation Together	Protecting Green Ecology Together
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Rural Revitalization

Optimize Top-level Deployment

Prosperity of agriculture leads to prosperity of the country, so comprehensively promoting rural revitalization is an important task for building a strong agricultural country in the new era. We continued the rural revitalization 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 effectively combined the advantages of member enterprises with the characteristics of assisting districts and counties, forming a three-dimensional assistance mode of "unified leadership of the group, active planning and promotion of guarantee units, close attention to the front-line implementation of on-the-job cadres,

The Group: For more than 30 years, the initial heart of the Group has not changed with helping the rural revitalization

Jingyuan County, Guyuan City, Ningxia, located in Xihaigu area, which was once "bitter and barren in the world", is the designated assistance county of China National Building Material Group Co., Ltd.. Since 1989, China National Building Material Group Co., Ltd. has been carrying out assistance activities for more than 30 years. Since 2016, China National Building Material Group Co., Ltd. has always kept in mind the entrustment of General Secretary Xi Jinping to inspect Yangling Village, Jingyuan County, continuously increased its assistance, worked with Jingyuan people, won the tough fight against poverty in an all-round way, and continued to promote rural revitalization. Nowadays, Jingyuan has taken on a new look and embarked on the road of industrial development, people having realized income increase and wealth.



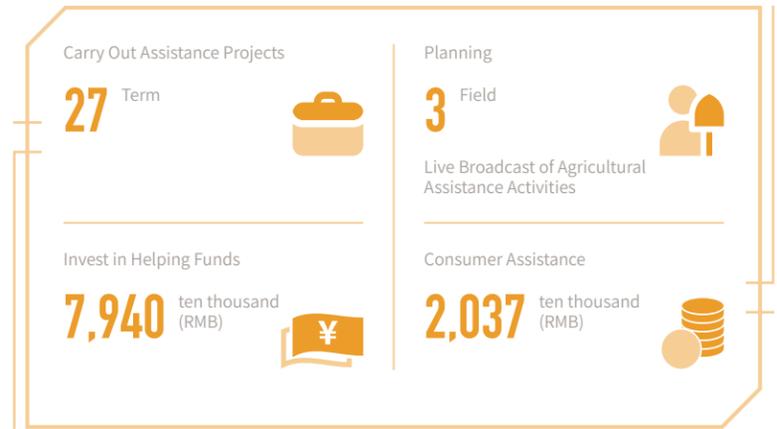
and active response and support of all member enterprises", which effectively improved the effectiveness of assistance. For four consecutive years, the Group has been evaluated as "Good" with the highest effect in the designated assistance work of the central unit.

Party Building Assistance	All member enterprises of the Group and grass-roots party organizations in designated helping counties have extensively carried out twinning and co-construction activities, strengthened the leading role of rural grass-roots party organizations in rural revitalization, and consolidated the achievements of poverty alleviation and difficulties tackling with the guidance of party building, continuing to promote rural revitalization.
Industrial Assistance	Concentrate on building demonstration villages and towns for rural revitalization and typical projects for industrial development, playing a leading role in demonstration. In 2022, 11 industrial projects have been implemented, involving 67.83 million yuan, accounting for 85.43% of the total investment. The "Public Welfare Cattle" assistance project implemented by the Group in Jingyuan County was successfully selected as an excellent case in the Blue Book of Central Enterprises Helping Rural Revitalization (2022) of SASAC.
Educational Assistance	Long-term educational assistance forms such as donating money to help students, volunteering to support education, scholarship support, etc., and expanding the "Good Learning Plan" Initiatives, including holding "Good Learning" summer camps, opening "Good Learning" reading rooms in mountain schools, awarding "Good Learning" scholarships, and carrying out "Colorful Classroom" volunteer activities to help education in mountainous areas achieve high-quality development.
Talent Support	Train entrepreneurial talents and technical leaders with 245 rural revitalization leaders and 229 professional and technical talents in 2022, injecting the driving force for sustainable development into poverty-stricken areas.
Consumer Assistance	Specially developed a public welfare e-commerce assistance platform "Hebaodan" for designated assistance areas, and carried out work around "Consumption Assistance, Brand Building, Intellectual Support,, Special Assistance, Public Welfare Services", etc., effectively alleviating the problem of unsalable sales of agricultural products in poverty-stricken areas.
Medical Assistance	Carry out special medical assistance according to local conditions, and join hands with Xi'an Fifth Hospital to carry out free clinic activities for endemic diseases in Jingyuan County.

Sharing Development Achievements	Marching Towards a Better Future	Responsibility Management
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Consolidate the achievements of revitalization

In accordance with the "Four No Picks" requirements of the CPC Central Committee and focusing on the "Five Revitalization" goals and tasks, the Group has continuously innovated the assistance mode, and continuously carried out fixed-point assistance in five districts and counties, including Shitai County, Anhui Province, Jingyuan County, Ningxia, Zhaoyang District, Yongshan County and Suijiang County, Zhaotong City, Yunnan Province, implementing more than 600 assistance projects in total, and sending 94 assistance cadres successively to effectively link the achievements of poverty alleviation with rural revitalization.



The Youth Takes Responsibility to Lights Up Dreams-the colorful class activities of "Good Building" of China National Building Material Group Co., Ltd.

From August 1 to 5, 2022, China National Building Material Group Co., Ltd. successfully held the colorful class activity of "Good Building" of China National Building Material Group Co., Ltd. The colorful class of "Good Building" has set up 15 teaching points in 5 designated assistance districts and counties, covering more than 740 students. The curriculum includes natural science, literature and sports, humanities and history, etc., as well as enterprise courses and party history education courses that reflect the characteristics of building materials, which not only increase children's knowledge, expand their thinking, but also temper their will and strengthen their body. The five-day colorful class is wonderful, interesting and informative, holding up a healthy growth sky for children, conveying the strong voice of the new era to their hearts, and rooting the ambition of strengthening the country in their hearts.



Will you come back? Will you come again? Since you came, I feel it's good to study. I want to go to the outside world. I want to receive a higher education. I want to change. I want to change my family and I want to change my village. It turns out that the world is under our feet and we should cross the mountains and find another world.

— Lan Yuchen, Chengguan Middle School of Suijiang County

I am very grateful to the summer camp for letting us get out of the mountains, feel different life, and know the direction of learning and moving forward.

— Ma Yuxiao, a member of the "Good Learning" Summer Camp

We met in this colorful Yunnan, adhering to the initial intention of volunteer teaching and growing up with the children. In class, I infect pure hearts with my heart, and the clear eyes of children also give me the strength to move forward. In the school surrounded by mountains, the innocent smiling faces of children are the most beautiful scenery I have ever seen, and this encounter across the mountains and seas will be my cherished memory forever.

— Tiegang, China United Cement in Rizhao City

I will study hard to realize my dreams, fulfill my wishes and become a good pillar of China.

— Fu Han, a member of the "Good Learning" Summer Camp

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Good Deeds

Join in public welfare and charity

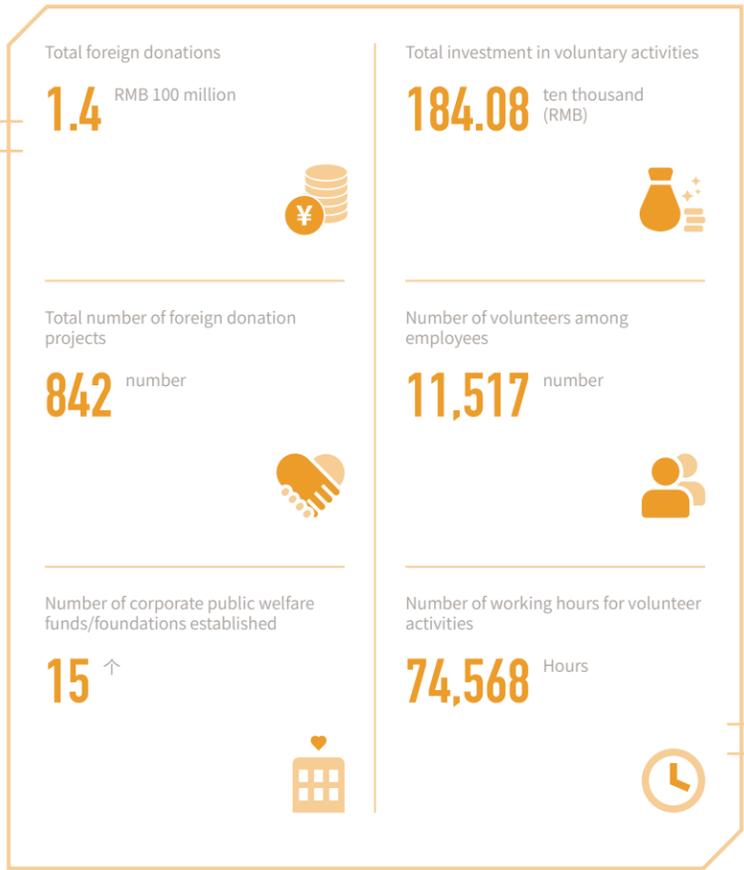
We practice the concept of "Making Good Use of Resources and Serving Construction", set up a "Good Building" public welfare fund, and extensively carry out social welfare activities such as disaster relief, voluntary service, employee assistance, supporting education and helping students, and overseas aid construction, so as to dedicate and interpret the responsibilities of the central enterprises.

The Group: United Together and Tide Over Difficulties Together

At 12:52 on September 5, 2022, a 6.8-magnitude earthquake struck in Luding County, Ganzi Prefecture, Sichuan Province, with a focal depth of 16 kilometers. The maximum intensity of the earthquake reached IX degree (9 degree), and roads, communications and houses were seriously damaged. China National Building Material Group Co., Ltd. actively fulfilled the social responsibility of central enterprises, donated 20 million yuan to Sichuan Charity Federation, and fully supported the earthquake relief and post-disaster reconstruction work in Sichuan earthquake-stricken areas, helping compatriots in the disaster areas overcome difficulties and build a better tomorrow together.

Data Review 2022

- Beijing New Building MATERIALS Co., Ltd. donated to Beijing Chaoyang District Experimental Primary School Boyue Campus
- China Jushi Co., Ltd. set up Jushi Love Bank and widely organized love assistance
- Taishan Fiberglass INC. Launches Volunteer Service of "Voluntary Blood Donation"



Sharing Development Achievements **Marching Towards a Better Future** Responsibility Management



Sinoma Science & Technology Co., Ltd. launched the "Make a Volunteer Service Carnival and Create a City with Low Carbon" national health walking activity

Stand firm against the epidemic

We have attached great importance to the prevention and control of the epidemic, resolutely implemented the decision-making arrangements of the CPC Central Committee and the State Council, and actively responded to the needs of epidemic prevention work, with hearing the order and acting in response to the epidemic. During the outbreak, the Group overcame difficulties and rushed to Shanghai,

Hong Kong and other regions to build a strong defense line against the epidemic. Under the premise of implementing their own epidemic prevention and control, all enterprises have strengthened their mission, actively participated in local volunteer services to fight against the epidemic, and fought hard in the front line of the fight against the epidemic.



China National Building Material Group Co., Ltd. and its affiliated Triumph Science & Technology Group Co., Ltd. won the Letter of Thanks from Shanghai Hongkou District Committee and District Government



The volunteers cooperate with the medical staff to carry out nucleic acid detection in an orderly manner

06



Talking about Responsibility Management

The new era and new journey have entrusted the central enterprises with greater responsibilities and missions. As the only central enterprise in the building materials industry, China National Building Material Group Co., Ltd. has thoroughly implemented the spirit of General Secretary Xi Jinping's series of important speeches on corporate social responsibility, implemented the policy guidelines of the State-owned Assets Supervision and Administration Commission of the State Council for central enterprises to fulfill their social responsibilities, strengthened the top-level design of social responsibility, and bravely shouldered the great responsibility of central enterprises with a higher political position, stronger responsibility, more open and inclusive attitude and more practical work measures, striving to promote the sustainable development of the whole society.



379

There are 379 quantitative indicators of social responsibility management

The fifth place

Ranked the fifth in the "2022 Top 300 Chinese Enterprises Social Responsibility Development Index"

The third place

Ranked the third in the "TOP10 of 2022 State-owned Enterprise Social Responsibility Development Index"



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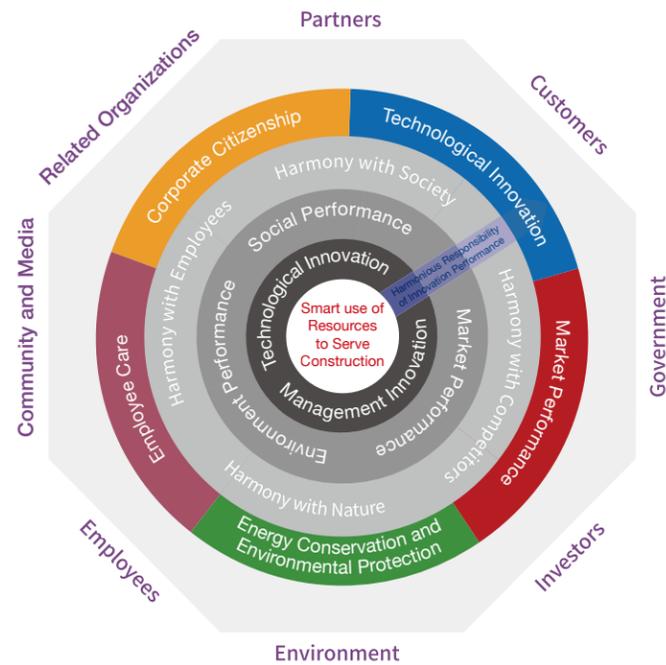
BNBM's "Smart Resource Use Day"

Common Prosperity and Development Prospering Scientific and Technological Innovation Together Protecting Green Ecology Together

Concept of Responsibility

We adhere to the core concept of "Making Good Use of Resources and Serving Construction", take "Innovation, Performance, Harmony and Responsibility" as the core values, pay attention to the organic combination of scientific and technological innovation and management innovation in development, and pursue the coordination and win-win of market, environment and society. We insist on harmony with competitors, nature, employees and society, and finally implement the concept of social responsibility in market performance, scientific and technological innovation, energy conservation and environmental protection.

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



Responsibility Governance

Focusing on the strategic vision of "building a world-class industrial investment group specializing in the material industry with global competitiveness", relying on the four-in-one all-round innovation pattern of science and technology, business model, management and system, we actively improve sustainable development management, incorporate social responsibility management into the Group's strategy, overall planning and daily operation, improve the responsible organization, continue to carry out social responsibility capacity building, and improve the long-term mechanism of the Group's social responsibility management through performance evaluation and training research, and effectively improve the ability and level of responsibility management.

Data Review 2022



Sharing Development Achievements Marching Towards a Better Future Responsibility Management

Organizational Structure

- We have established a social responsibility work promotion leading group as the top leading body headed by the Chairman to lead and promote the social responsibility work of the Group.
- Based on the headquarters functional organization for social responsibility management, we have guided and promoted member enterprises to strengthen social responsibility management and actively fulfill their social responsibilities.
- With member enterprises at all levels as nodes, and in accordance with the unified requirements of headquarters, we have clarified the functional departments, appointed managers, and implemented the fulfillment of responsibilities. By the end of 2022, 212 member enterprises had set up social responsibility leading institutions, 537 member enterprises had set up social responsibility management institutions, and 559 member enterprises had set up social responsibility management posts, with a total of 1,559 full-time and part-time employees in social responsibility management.

Ability Improvement

- Taking CNBM's "Shanjian Charity" Fund as an important platform, we have created a brand of social responsibility.
- The stable operation of the "CNBM Social Responsibility Management Information System" achieved online management of personnel and information.
- We have established an index system of the Group's social responsibility with 379 indicators to ensure the integrity of social responsibility reporting.
- We have strengthened pilot demonstrations, promoted corporate accountability practices and participated in various training courses, such as China Social Responsibility 100 Forum.



Continuous Improvement

- We have given full play to the resources of the think tank of internal management experts to guarantee the applicability and operability of the substantiality and mechanism of social responsibility management.
- We have established partnership with professional organizations, grasped the development trends of social responsibility at home and abroad, and ensured the professionalism and compliance of the Group's social responsibility management system.
- We have enabled the extroverted responsibility management, such as brand responsibility activities, deep responsibility communication and theme responsibility publicity, so that the influence of responsibility is increased gradually.
- We have continuously improved the member enterprises' CSR report publishing rate and quality, and promoted the systematization and normalization of CSR performance.

Performance Evaluation

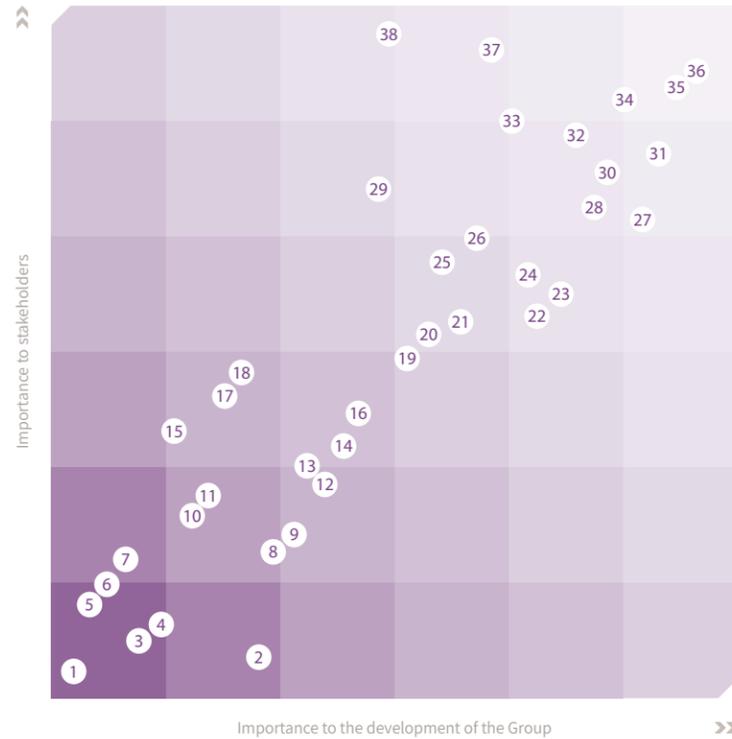
- We have prepared and published annual social responsibility reports, published performance trends on website columns from time to time, established an information disclosure system and built an effective communication platform.
- We have participated in external performance evaluation, implemented comprehensive evaluation and benchmarking in reporting quality, accountability performance and responsibility management, and learned from others for continuous improvement.
- We have promoted the integration of social responsibility management and group operation, and deepened the formation of a "six-star enterprise" evaluation system.

Common Prosperity and Development Prospering Scientific and Technological Innovation Together Protecting Green Ecology Together

Responsibility Integration

We attach great importance to the organic integration and mutual promotion of social responsibility and enterprise development. According to the Group's development strategy and combined with the expectations of stakeholders, we have planned six social responsibility sections, namely, "common prosperity and development, common scientific and technological innovation, common green ecology, sharing development achievements, sharing a better future, and sharing responsibility governance". We sorted and screened the topics from the two dimensions of "importance to stakeholders" and "importance to the development of the Group", and finally determined the core topics of this year's social responsibility report.

Social Responsibility Planning of CNBM



- | | |
|--|---|
| 1 Overseas Community Co-construction | 18 Mechanism for Customer Complaint Resolution |
| 2 Information Disclosure | 19 Responsibility Management |
| 3 Community Integration | 20 Employee Rights and Interests |
| 4 Communication with Stakeholders | 21 Green Service |
| 5 Public Charity | 22 Responsible Supply |
| 6 Rural Revitalization | 23 Concept of Responsibility |
| 7 Green Office and Environmental Public Welfare Activities | 24 Green Products |
| 8 Advocating Sustainable Consumption | 25 Cultivation of Innovative Talents |
| 9 Promoting Industry Development | 26 Environmental Management |
| 10 Democratic Management | 27 Employee Training |
| 11 Responsible Procurement | 28 Supply Chain Management |
| 12 Overseas Development and International Cooperation | 29 Corporate Governance System |
| 13 Supply-side Structural Reform | 30 Risk Management and Control |
| 14 State-owned Enterprise Reform | 31 Green Production |
| 15 Intelligent Manufacturing | 32 Strengthening Party Building and Anti-corruption |
| 16 Development of New Materials Industry | 33 Innovation Management |
| 17 Transformation of Scientific and Technological Achievements | 34 Safe Operation |
| | 35 Law-based Corporate Governance |
| | 36 High-quality Development |
| | 37 Quality Management |
| | 38 Credit Management |

Sharing Development Achievements Marching Towards a Better Future Responsibility Management

Social Responsibility Planning of CNBM

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

Responsibility Communication

We pay close attention to the expectations and demands of investors, government, employees, customers, partners, relevant groups, communities, media, environment and other stakeholders, and convey corporate responsibility information through various forms such as the annual social responsibility report, the official WeChat account, the "Social Responsibility" section of official website and the "Smart Use of Resources" enterprise open day, strengthen information disclosure, and 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 disclosure-communication-promotion, so as to improve the public's awareness and recognition of CNBM. We value the feedback from stakeholders, which provides intellectual support for our sustainable development.

Data Review 2022

Annual internal and external stakeholder communication

137,443

 persons

Join in social organizations or conventions at home and abroad

2

 Term

Internal and external stakeholder communication with senior leaders of enterprises

14,488

 Session

The number of reports on the news broadcast, the People's Daily and other mainstream media has exceeded

100

 Articles

Common Prosperity and Development	Prospering Scientific and Technological Innovation Together	Protecting Green Ecology Together
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Responsibility is on the shoulders and communication is unlimited

In 2022, CNBM continued to carry out various social responsibility communication activities with an open mind, insisted on positive publicity, actively voiced in mainstream media such as CCTV and Qiushi Magazine, actively participated in theme publicity such as "Extraordinary Decade", and jointly filmed CCTV "Pillars", "Dialogue" and other special programs, held "Smart Use of Resources Day" public opening activities, and launched "Materials World", "China Dimension Building Materials Seal" and other media works. On behalf of the new atmosphere and new style of central enterprises, the brand image of the Group is more distinct.



The video exhibition with the theme of "Intelligent Manufacturing" was showed, and the promotional film of "Intelligent Building Future" of CNBM was released, showing the image and elegant demeanor of Chinese building material enterprises at all levels practicing intelligent upgrading, innovative development and green environmental protection.

The popular science cartoon "The Story of Glass" of glass materials has been officially released, as well as a collection of short films of materials, which can popularize the wonderful world of materials in a simple and lively way and analyze the mysterious stories of materials, so that the on-site personnel can intuitively feel the latest achievements of China's building material industry and personally appreciate the great charm of the material industry.



We elaborately planned and joined the building materials overalls show, and young employees from enterprises affiliated to the Group at home and abroad dressed in overalls of technicians from the Group headquarters, research institutes, engineering front lines and workshops staged a workplace youth film.



Representatives of the most beautiful building materials people were specially invited to share on the spot. Hu Yadong, a national model worker and director of the Digital Research Institute of Tianjin Cement Institute, shared the intelligent process of "leaving the comfort zone to break through yourself". Xu Peng, Deputy General Manager of the Institute of Intraocular Lens, told the story of exploring the transformation of scientific and technological achievements, which was well received by participants.

Sharing Development Achievements	Marching Towards a Better Future	Responsibility Management
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Stakeholders	Communication mode	Focus	Response measures
Investors	<ul style="list-style-type: none"> Periodic reports Corporate report Promotion activities Shareholder dialogue and feedback New media and network platform interaction 	<ul style="list-style-type: none"> Enterprise performance Interests of shareholders and creditors Authenticity, accuracy, timeliness and completeness of information disclosure Sustainability of development 	<ul style="list-style-type: none"> Sustainable high-quality management Perfect information disclosure mechanism Improve the value of enterprise Standardize corporate governance Protect the interests of investors
Government	<ul style="list-style-type: none"> Publication of laws and regulations Special reports and visits Information submission Assessment of work objectives Industry Association 	<ul style="list-style-type: none"> Corporate Governance Safety, Environmental and Compliance Requirements Secure supply Employment opportunities Development of local economy Response to climate change 	<ul style="list-style-type: none"> Operate in accordance with the law and implement national policies Sustainable high-quality management Tax Payment Provide jobs Adhere to green manufacturing
Customer	<ul style="list-style-type: none"> Customer meetings and consultation Market research Daily contact Customer feedback mechanism Telephone service New media and network platform interaction Product packaging information 	<ul style="list-style-type: none"> Enterprise credit Customer relationship Quality of products and services Product innovation Health and Safety 	<ul style="list-style-type: none"> 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
Partner	<ul style="list-style-type: none"> Contract negotiation Bidding conference High-level meeting Document, correspondence and telegrams Daily business communication New media and network platform interaction 	<ul style="list-style-type: none"> Price and prompt payment Long-term partnership Profit distribution Information resource sharing Credit and reciprocity Risk prevention 	<ul style="list-style-type: none"> Credit Management Promote suppliers' responsibility performance Establish an effective partnership Establish an effective communication mechanism
Employees	<ul style="list-style-type: none"> Employee Congress Publicity of factory affairs Labor contract Rationalization proposals Normal communication Letters and visits New media and network platform interaction 	<ul style="list-style-type: none"> Enterprise performance Corporate Governance Employee Rights and Interests Career development planning Complaint handling Occupational health Democratic management Publicity of factory affairs 	<ul style="list-style-type: none"> 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
Community and media	<ul style="list-style-type: none"> Sign public welfare agreements Participate in volunteer activities Daily contact Open day Activities Media interview New media and network platform interaction 	<ul style="list-style-type: none"> Planning affairs Environmental protection and response to climate change Joint construction of a harmonious community Occupational safety and health 	<ul style="list-style-type: none"> 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
Social groups	<ul style="list-style-type: none"> Regular participation in meetings or activities Daily contact New media and network platform interaction 	<ul style="list-style-type: none"> Environmental conservation Promote sustainable development jointly 	<ul style="list-style-type: none"> Play membership role Provide economic and technical support Establish a cooperative relationship

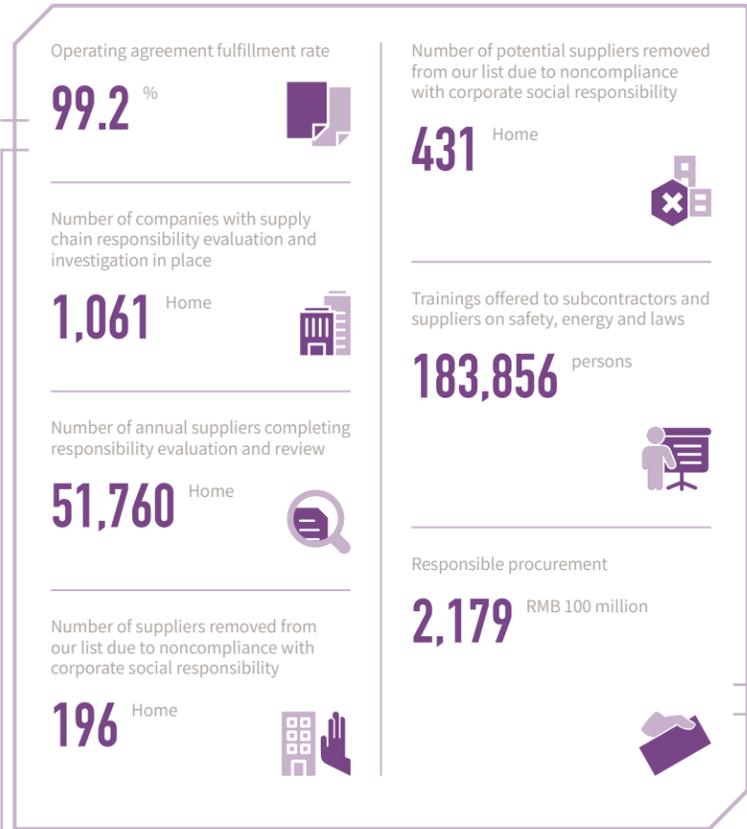
Common Prosperity and Development Prospering Scientific and Technological Innovation Together Protecting Green Ecology Together

Data Review 2022

Responsibility Sharing

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 environment throughout the operation, so as to maximize the integrated value of economy, society and environment and promote sustainable development. In 2022, China National Building Material Group Co., Ltd. became one of the first batch of member enterprises in "ESG Alliance of Central Enterprises" with its outstanding performance in ESG governance, contributing to the construction of ESG development ecosystem with Chinese characteristics and the sustainable development of Chinese enterprises.



We recognize and abide by the "Ten Principles of the Global Compact" and actively contribute to the achievement of the sustainable development goals of the United Nations.

We take the initiative to share our experience in theories and practice in terms of social responsibility inside and outside the industry and promote the development of social responsibility in China.

We actively participate in social responsibility sharing and initiative activities in different fields, participate in launching China Social Responsibility 100 Forum.

We rely on China Federation of Industrial Economics, China Building Material Federation, China Building Materials News and other platforms to disseminate ideas, share experiences and launch initiatives, and work with stakeholders to seek better ways of sustainable development.

Driving Development of Supply Chain

In order to strengthen information sharing, promote the cooperation between upstream and downstream of the industrial chain, and create sunshine procurement, the Group continuously integrates new functions based on the "bidding and procurement management platform", promotes the "procurement transaction" to the mode "ecological win-win and co-creation of supply chain", and continuously improves the management

level of supply chain. At present, the platform is a "one-stop" platform for information release and resource sharing of building materials industry chain integrating functional modules such as bidding and procurement, MRO mall, disposal of waste materials and value-added services.

200,000 suppliers have been newly registered in the platform, which improves the ability to find sources; At the same time, we optimize the supplier management mechanism, expand supplier sourcing, 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.

Sharing Development Achievements Marching Towards a Better Future Responsibility Management

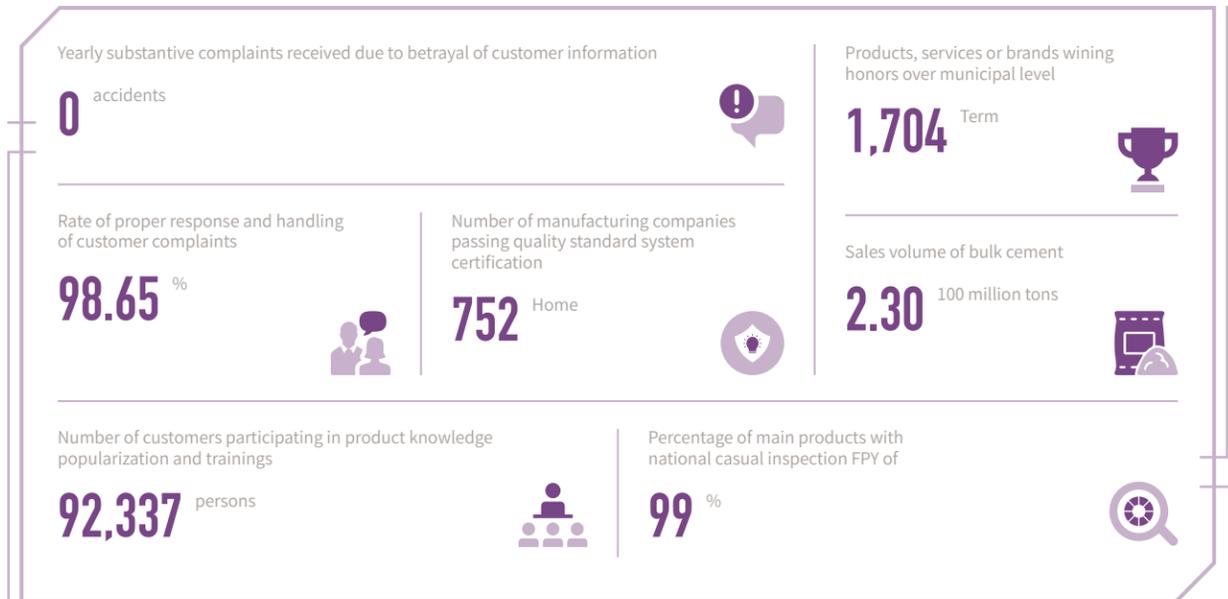
Responsible Supply

We are committed to supplying reliable, green and environmentally-friendly building materials, focusing on providing products and service supports for the development of 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.

CNBM INTERNATIONAL: It won the title of "Leading Enterprise in Centralized Procurement and Supply Chain Finance (CPCF) of Central Enterprises in 2022"

In November, 2022, the 2022 (5th) Annual Meeting of Centralized Procurement and Sharing of Central Enterprises and the Sharing and Recruitment Conference of Suppliers in Centralized Procurement of Central Enterprises were held. CNBM INTERNATIONAL won the title of "Leading Enterprise in Centralized Procurement and Supply Chain Finance (CPCF) of Central Enterprises in 2022" by virtue of supply chain finance services in okorder.com. CNBM INTERNATIONAL is committed to providing efficient and timely supply chain finance products and services for domestic core enterprises and upstream and downstream small and medium-sized enterprises in manufacturing industry by improving the service capability of the comprehensive service platform outside the network, helping small and medium-sized production enterprises to focus on production, promoting dual circulation and promoting high-quality development of foreign trade.

Data Review 2022



We have fully promoted the construction and certification of the quality management standard systems.

We have set up a pre-sales consultation, in-sales reception and after-sales service system to respond to and properly deal with customers' complaints and inquiries in an immediate manner, so as to improve customer satisfaction.

We have built a professional customer service team, able to provide professional technical training for dealers on a regular basis.

We have organized customer training meetings to carry out product promotion and offer customers the basic knowledge of green building materials, the considerations in building materials selection and use, and the knowledge of product anti-counterfeiting.

We have always emphasized the protection of customer's privacy by keeping customer data under strict management.

We have established modern logistics parks for rational planning of supply and marketing as well as logistics schemes, reducing resource occupation and ultimately improving sales efficiency.

We have built an Internet sales platform, providing worldwide online trading services for building materials to reduce carbon emissions related to customers and sales representatives during business travel.

Common Prosperity and Development

Prospering Scientific and Technological Innovation Together

Protecting Green Ecology Together

Sharing Development Achievements

Marching Towards a Better Future

Responsibility Management

Honor of Responsibility



Ranked 247th among Fortune Global 500 in 2023

247

Ranked 233rd among Top 500 Global Brand Values in 2023

233



Ranked 71th among Top 500 Chinese Enterprises in 2023

71



Ranked 38th among the top 100 leading enterprises in strategic emerging industries

38



Ranked 1st among Top 500 Building Materials Enterprises in China in 2022

1



Ranked 59th in Transnational Index among China's Top 100 Multinational Companies

59



Ranked 24th among Top 500 Manufacturing Enterprises in China in 2023

24



Ranked 47th among 100 large innovation enterprises in 2023

47



Ranked 47th among Top 500 Most Valuable Brands in China in 2023

47



Group

It was awarded Grade A in the key task assessment of the three-year action of the central enterprise reform in 2022

It got the highest grade of "good" in the evaluation for the effectiveness of the designated assistance work in the central units

It was approved as one of the first five state-owned capital investment companies

Three people won the honorary title of national technical experts and two people were selected into the second program "Craftsmen in a Great Power" of central enterprises

It was selected as "Demonstration Enterprise in Corporate Governance" by SASAC and was awarded "Excellent" in the construction evaluation of SASAC Board of Directors

17 enterprises were selected as typical cases of digital transformation for intelligent manufacturing in building materials industry in 2022 by the Ministry of Industry and Information Technology

China National Building Material Company Limited

It was ranked the 73rd place in "Top 500 China Rankings" by Fortune (Chinese version) and ranked the first among the most respected enterprises in the basic raw materials sector among "Management Teams in Asia Pacific Companies" by Institutional Investors, and won the first place in the "Comprehensive Strength Ranking among Listed Companies in Global Building Materials in 2022" of China Building Materials Federation

Ningxia Building Materials Group Co., Ltd.

It won the title of "National May Day Labor Award"

New Tianshan Cement

It was selected as the annual model of China's sustainable industrial enterprises in "2022 Forbes Selection of TOP50 Industrial Enterprises for Sustainable Development in China"

Beijing New Building Material (Group) Co., Ltd.

It was ranked 150th in the list of "Top 500 Brands in Asia" and once again won the top three building materials brands in Asia

China Jushi Co., Ltd.

It was selected as TOP50 among "Best Listed Companies" by the 4th New Fortune

China Jushi and Sinoma Science & Technology

They won the titles of "Top Ten Leading Enterprises in Science and Technology Breakthrough in National Building Materials Industry in 2022" by China Building Materials Federation

Zhongfu Shenyong Carbon Fiber Co., Ltd.

It was selected as "the Most Innovative Listed Company on Science and Technology Innovation Board in 2022" by CLS

Sinoma International Engineering Co., Ltd.

It was listed as one of "the 250 largest international contractors in the world" in ENR, ranking 44th in the world and 11th among Chinese enterprises

CNBM INVESTMENT COMPANY LIMITED

It was awarded one of the "Top 100 Enterprises in Building Materials Service Industry in China in 2022" by China Building Materials Federation

Sinoma Science & Technology Co., Ltd.

It won the title of "Top Ten Leading Enterprises in Science and Technology Breakthroughs in Building Materials Industry in China in 2022" by China Building Materials Federation

Future Prospects

2023 is the first year to fully implement the spirit of the 20th National Congress of the Communist Party of China, and it is also a crucial year for connecting the preceding with the following in the 14th Five-Year Plan. Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we will fully implement the spirit of the 20th National Congress of the Communist Party of China, focus on solidly promoting Chinese-style modernization, adhere to the overall leadership of the Party, adhere to the general tone of striving for progress steadily, implement the new development concept completely, accurately and comprehensively, serve to accelerate the construction of a new development pattern, focus on promoting high-quality development, comprehensively accelerate the construction of a world-class materials industry investment group, and make greater contributions to the opening of building a socialist modernized country in an all-round way.

Consolidate high-quality development with striving for progress steadily

We will continue to seek benefits from market development, three-refined management and collaborative benchmarking, strengthen confidence, improve quality and efficiency, and make every effort to win the tough battle of stabilizing growth.

Support high-quality development driven by innovation

We will continue to forge the national strategic scientific and technological strength, further promote the industrialization of scientific and technological achievements, accelerate the release of new digital kinetic energy, gradually increase scientific and technological innovation, and build a strong engine for a world-class enterprise .

Promote high-quality development with industrial upgrading

We will continue to consolidate the three main businesses and four major sectors; we will accelerate the construction of a modern industrial system; we will solidly promote the dual-carbon work and fully promote the construction of beautiful China; we will steadily push forward internationalization, actively help promote dual circulation, strengthen multi-dimensional empowerment, and continuously promote transformation and upgrading.

Empower high-quality development with deepening the reform

We will continue to deepen the reform of the governance mechanism and build a modern new state-owned enterprise with greater efforts; we will give full play to the role of investment companies and accelerate the optimization and adjustment of state-owned capital layout; we will deepen the reform of market-oriented operating mechanism, fully stimulate organizational vitality, and deepen and enhance reform efficiency.

Escort high-quality development with risk prevention and control

We will continue to improve the risk prevention and control mechanism, keep a close eye on key areas and key links, firmly build a safe bottom line through risk management and control, and strengthen our firm and deep confidence in the future.

Guarantee high-quality development guided by Party building

We will continue to comprehensively study, grasp and implement the spirit of the 20th National Congress of the Communist Party of China, adhere to the leadership of the Party, strengthen Party building, build a team of high-quality professional cadres and talents, promote the comprehensive and strict management of the Party to develop in depth, and promote the resonance at the same frequency between Party building and production and operation.





Ranking of Fortune Global 500 Building Materials Enterprises in 2023

Ranking in 2023	Enterprise Name	Operating Income in 2022 (One million US dollars)	Country
247	CNBM	56514.2	China
263	Saint-Gobain Group	53846.9	France
464	Anhui Conch Group	32990.9	China
459	CRH Corporation	33368.0	Ireland

Data source: Fortune Chinese website

Output of Cement from 2012 to 2022

Unit: 100 million tons

Year	Output of Cement
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
2012	2.7

Total Operating Income and Profit from 2012 to 2022

Unit: 100 million tons

Year	Operating Income	Total Profit
2022	3801.6	265.8
2021	4155.1	386.9
2020	3941.0	306.1
2019	3981.0	235.2
2018	3480.0	206.6
2017	3021.2	151.1
2016	2612.3	75.8
2015	1992.5	38.4
2014	2504.3	130.1
2013	2522.6	115.1
2012	2174.3	111.6

Rate of Preservation and Appreciation of State-owned Assets and Rate of Return on Net Assets from 2012 to 2022

Unit: %

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



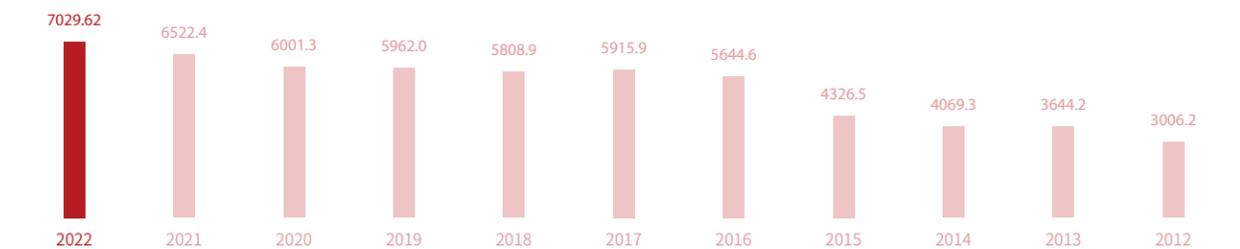
Performance of Listed Companies in 2022

Unit: Yuan

Stock Name	Stock Exchange	Stock Code	Dividend per Share	Earnings per Share
China National Building Material Company Limited	Hong Kong Stock Exchange	03323.HK	0.3780	0.9440
Xinjiang Tianshan Cement Co., Ltd.	Shenzhen Stock Exchange	000877.SZ	0.2700	0.5259
Ningxia Building Materials Group Co., Ltd.	Shanghai Stock Exchange	600449.SH	0.3900	1.1100
Gansu Qilianshan Cement Group Co., Ltd.	Shanghai Stock Exchange	600720.SH	0.0000	0.9770
China Jushi Co., Ltd.	Shanghai Stock Exchange	600176.SH	0.5210	1.6512
Beijing New Building Material (Group) Co., Ltd.	Shenzhen Stock Exchange	000786.SZ	0.6550	1.8560
Sinoma Science & Technology Co., Ltd.	Shenzhen Stock Exchange	002080.SZ	0.6600	2.0923
Sinoma International Engineering Co., Ltd.	Shanghai Stock Exchange	600970.SH	0.3000	0.9800
Zhongfu Shenying Carbon Fiber Co., Ltd.	Shanghai Stock Exchange	688295.SH	0.1000	0.6900
Ruitai Technology	Shenzhen Stock Exchange	002066.SZ	0.0800	0.2868
China Certification and Inspection Group	Shanghai Stock Exchange	603060.SH	0.1220	0.3485
Triumph Science & Technology Group Co., Ltd.	Shanghai Stock Exchange	600552.SH	0.1000	0.1800
Triumph New Energy Company Limited	Shanghai Stock Exchange	600876.SH	0.0000	0.6300
Triumph New Energy Company Limited	Hong Kong Stock Exchange	1108.HK	0.0000	0.6300
Sinoma Energy Conservation Ltd.	Shanghai Stock Exchange	603126.SH	0.0900	0.2569

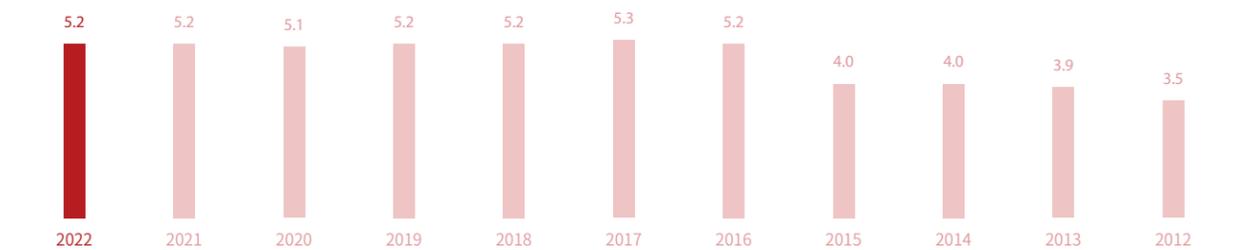
Total Assets from 2012 to 2022

Unit: RMB 100 million



Production Capacity of Cement from 2012 to 2022

Unit: 100 million tons



Technological Innovation



It won science and technology awards at or above the provincial or ministerial level from 2012 to 2022 Unit: Term

Year	Science and technology awards at or above the provincial or ministerial level	Including: National Science and Technology Progress Award
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
2012	152	0

Application and Authorization of Patents from 2012 to 2022 Unit: Term

Year	Newly Applied Patents	Including: Invention Patents	Newly Authorized Patents	Including: Invention Patents
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
2012	766	228	729	143

Expenditure on Scientific Research Activities from 2012 to 2022 Unit: RMB 100 million

Year	Expenditure on Research and Experimental Development
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
2012	33.4

It hosted and participated in the formulation or revision of standards from 2012 to 2022 Unit: Term

Year	Total Number of Standards	Including: International	Including: Country	Including: Industry
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
2015	62	2	36	24
2014	104	3	35	66
2013	59	1	8	50
2012	22	1	5	16

Accumulated Patents from 2012 to 2022 Unit: Term

Year	Number of Accumulated Patents	Including: Invention Patents
2022	22425	5926
2021	17642	4577
2020	14463	3816
2019	12124	3164
2018	10967	2765
2017	10024	2403
2016	8408	1913
2015	5663	900
2014	4255	687
2013	3231	589
2012	2549	448

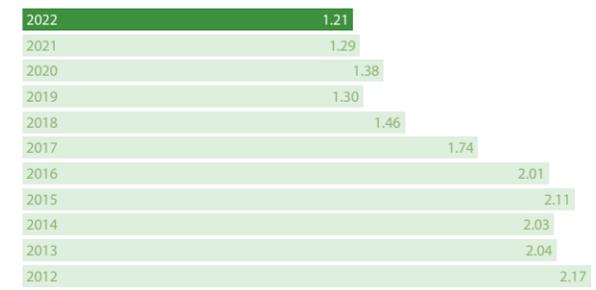
Income from scientific and technological innovation from 2012 to 2022 Unit: RMB 100 million

Year	Income from Scientific and Technological Innovation	Sales Revenue of New Products
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
2012	9.4	248.4

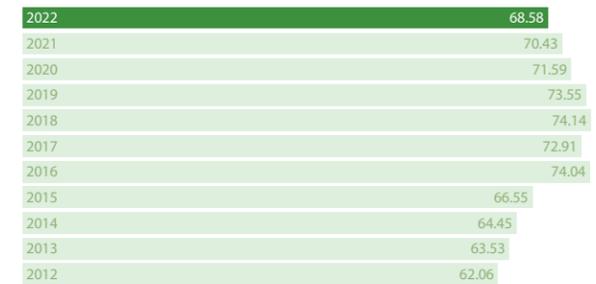
Energy Conservation and Environmental Protection



Comprehensive Energy Consumption of Output Value per Ten Thousand Yuan from 2012 to 2022 Unit: Tons of standard coal/ten thousand yuan



Comprehensive Energy Consumption per Ton of Cement from 2012 to 2022 Unit: Kilograms of standard coal/ton



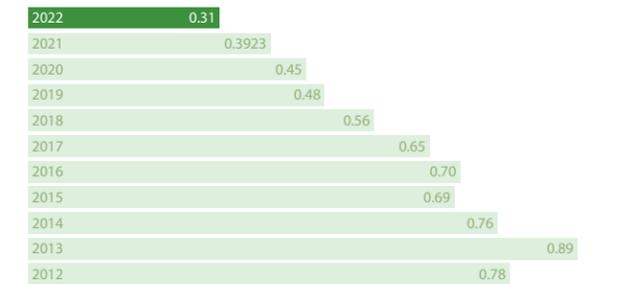
Disposal and Utilization Performance of Solid Waste from 2012 to 2022

Year	Consumption of Solid Waste (ten thousand tons)	Disposal Rate of Self-produced Solid Waste (%)
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
2012	9700	100

Emissions of SO₂ and COD with Output Value of Ten Thousand Yuan from 2012 to 2022 Unit: kg/ten thousand yuan

Year	SO ₂ Emission with Output Value of Ten Thousand Yuan	COD Emission with Output Value of Ten Thousand Yuan
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
2012	1.45	0.07

Emission of Nitrogen Oxides per Ton of Cement Clinker from 2012 to 2022 Unit: Kilogram/ton



Utilization Performance of Water Resources from 2012 to 2022

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 (%)
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
2012	5.0	0.33	94.7

Employee Care



Employee Profile from 2012 to 2022

Unit: people

Year	Total number employees	Foreign and Macao and Taiwan employees	Employees in ethnic minorities	Employees with disabilities	Proportion of Female Employees in Management (%)
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
2012	165652	1190	2706	1620	13.5

Progress of Enterprise Annuity Work from 2012 to 2022

Year	Number of Member Enterprises Participating in Enterprise Annuity	Number of Employees Participating in Enterprise Annuity
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
2012	66	20392

Investment in occupational health and safety from 2012 to 2022

Unit: ten thousand (RMB)

2022	160000
2021	162000
2020	151500
2019	123697
2018	108357
2017	87032
2016	79527
2015	57249
2014	43221
2013	31363
2012	30324

Coverage of Labor Contracts and Social Insurance and Membership of Trade Union from 2012 to 2022

Unit: %

Year	Labor contract coverage	Social insurance coverage	Proportion of Employees Joining in Trade Unions
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
2012	96	92	80

Training Performance of Employees from 2012 to 2022

Year	Number of Training Programs Organized or Organized to Attend	Employee Participation in Training (ten thousand hours)	Number of Academic Degrees Obtained by On-the-job Employees with Support
2022	87920	185	1944
2021	77120	250	2431
2020	84771	215	2628
2019	107787	137	1679
2018	75187	485	1424
2017	52676	112	2251
2016	47554	331	3028
2015	32672	133	2882
2014	43352	91	3520
2013	37491	164	2387
2012	21028	126	1138

Performance in Safety Production from 2012 to 2022

Year	Accident Rate of Work-related Injuries of Thousands of People That Can Be Recorded (%)	Number of New Cases of Occupational Diseases
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
2012	2.3	3

Corporate Citizenship



Social Welfare Expenditure from 2012 to 2022

Unit: ten thousand (RMB)

2022	14157.7
2021	14073.8
2020	17332.9
2019	14243.9
2018	6291.5
2017	2335.5
2016	2400.4
2015	1802.8
2014	2080.5
2013	2195.1
2012	1015.1

Taxes Paid from 2012 to 2022

Unit: RMB 100 million

2022	271.7
2021	301.6
2020	290.6
2019	313.8
2018	272.2
2017	196.8
2016	157.3
2015	119.1
2014	146.4
2013	131.7
2012	160.3

Student Loans from 2012 to 2022

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)
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
2012	20	136	466	98	17815

Number of Social Welfare Projects Supported from 2012 to 2022

Unit: Term

2022	842
2021	829
2020	930
2019	718
2018	594
2017	419
2016	360
2015	332
2014	310
2013	332
2012	255

Guarantee Employment Performance from 2012 to 2022

Unit: people

Year	Number of Employed People	Including: Number of Fresh Graduates Recruited	Number of Demobilized Soldiers Recruited
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
2012	15901	3743	521

Organization of Volunteer Activities from 2012 to 2022

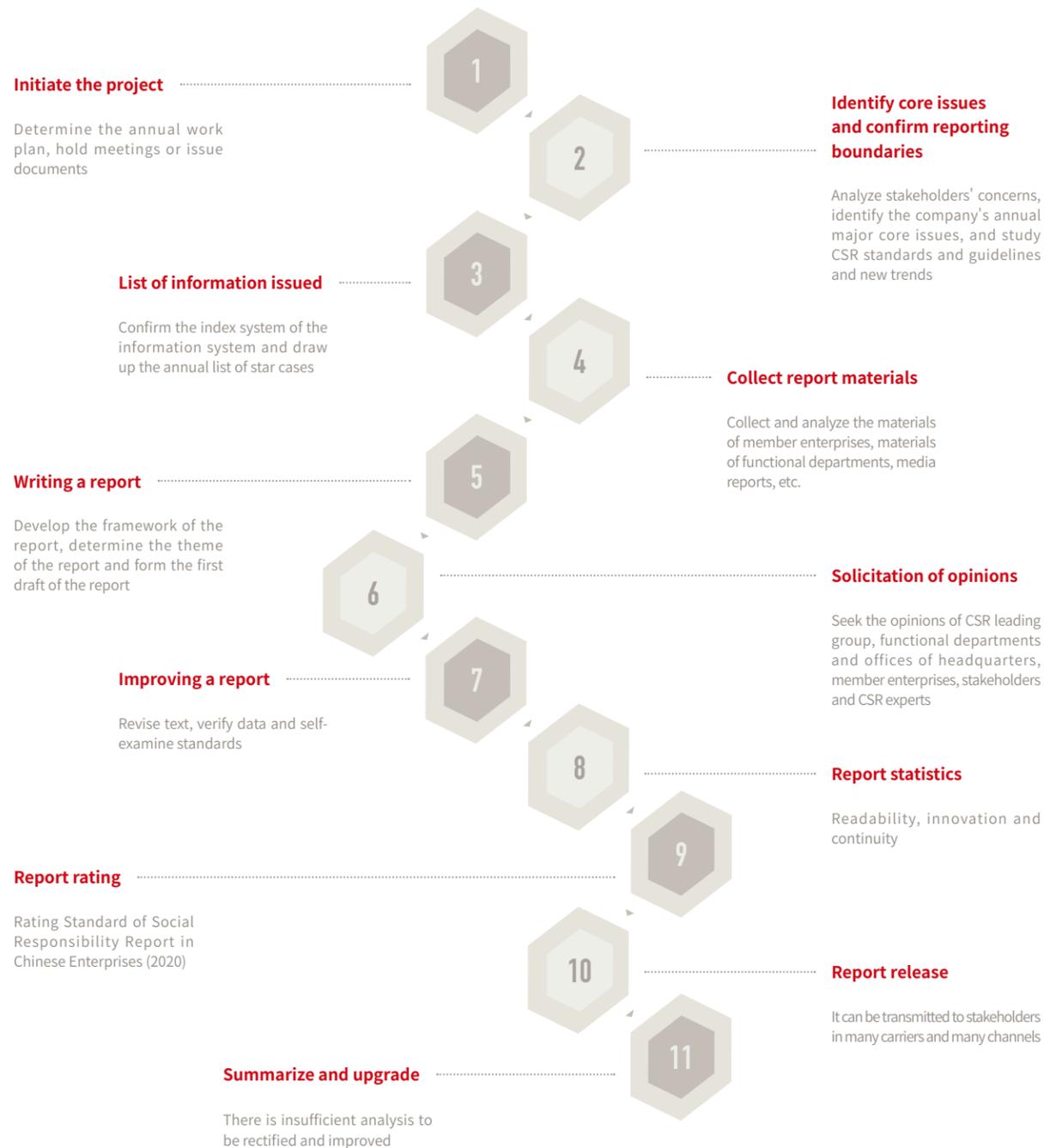
Year	Number of Volunteer Groups Set up Established	Investment to Support Voluntary Activities (ten thousand yuan)	Number of Employee Volunteers	Time of Volunteer Services Provided (hours)
2022	216	184	10935	63257
2021	221	180	11517	74568
2020	192	190	10121	49220
2019	213	2219	10343	40192
2018	189	126	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
2012	67	91	3337	39778

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	-	102-14-15	P2.1-2.2
About Us	-	102-1-2、102-4-8、102-16、102-18、102-22、102-24	P4.1-4.5
Contribution of Building Materials to Sustainable Development		203-13-2、302-4-5、303-3、304-2-3、401-2	G2.1、S2.4、S2.14、S2.18、S4.5-4.7、S4.9、S4.12、E1.3、E1.9、E2.11、E2.18、E2.4、E2.25、E3.3-3.4
Topics of Responsibility: Creating ESG Building Material Strength to Help Chinese-style Modernization		203-1-2	P1.3、M3.4、M3.6、E1.3、E1.9、E2.2、E2.24、S4.1、S4.12
Part I: Smart use of resources to build excellent materials for the country and its people			
Common Prosperity and Development		102-2、102-26、102-30、201-1、203-1-2、205-2	M1.1、M1.3、M1.6-1.8、M2.7、M3.6、S1.4、E1.7、E1.9、E2.1、E2.3
Prospering Scientific and Technological Innovation Together		201-1、203-1-2	M2.4-2.5、M2.7、M3.4、M3.6
Protecting Green Ecology Together		203-1-2、304-1-3、302-1、302-5	M2.7、E1.1、E1.3、E1.5、E1.8-1.9、E2.1、E2.6-2.7、E2.15-2.16、E2.19、E2.2、E2.24-2.25、E3.3-3.4、E3.6

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)
Part II: Services for construction with the "Top Priorities of the Country" in Mind			
Sharing Development Achievements		102-8、203-1-2、401-1、403-2、404-2、405-1	S2.1-2.4、S2.7-2.8、S2.11、S2.13-2.18、S2.20、S3.1-3.7
Marching Towards a Better Future		201-1、203-1-2、413-2、415-1	M2.4、M2.7、S4.5、S4.9、S4.6-4.13、E1.3、E1.7
Responsibility Management		102-9、102-12-13、102-40、102-42-44、418-1	G1.2、G2.1、G2.3-2.4、G3.1-3.3、G4.1-4.3、G5.1-5.2、G6.1-6.2、M2.9、M2.15-2.16、M3.1、M3.3、M3.6、M3.8、M3.10、E1.6、E2.2、E2.6
Future Prospects	-	-	A1
Appendix			
Responsibility performance	-	-	A2
Indicator Index	-	102-55	A5
Reporting Process	-	-	P1.1
Rating Report	-	-	A4
Feedback	-	102-53	A6

Reporting Process



Rating Report

Rating Report of 2022 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 2022 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

1. 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;
2. 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 group'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 environmental and social risks, disclose responsibility information in accordance with provisions, improve the management level of social responsibility, strengthen stakeholders' communication, and enhance brand value, with clear positioning in functional values; identify substantive issues according to national macro policies, group development strategies and stakeholder expectations; publish the special issue of "the Belt and Road Initiative" for ten years and 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" 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 (★★★★★)

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 (★★★★★)

The main content of the Report discloses 93.61% of the core indicators of the industry from the perspectives of "common prosperity and development", "common scientific and technological innovation", "common green and ecology", "sharing development achievements", "sharing a better future" and "sharing responsibility management" with outstanding integrity performance.

Balance (★★★★★)

The Report discloses negative data such as "employee turnover rate", "recorded rate of work-related injuries for over 1,000 people", "number of deaths in safety liability accidents", "new cases of occupational diseases" and "substantive complaints due to disclosure of customer information in the year", and discloses the number of suppliers who have completed social responsibility review and evaluation, and the number of suppliers who have been rejected and terminated from cooperation in the year, with excellent balance performance.

Comparability (★★★★★)

It is disclosed in the Report that the comparative data of 63 key indicators such as "operating income", "cement output", "scientific and technological innovation income", "employee training performance", "comprehensive energy consumption with output value per 10,000 yuan", "comprehensive energy consumption per ton of cement" and "occupational health and safety investment" for three consecutive years, and a horizontal comparison is made on indicators such as "Ranking of Fortune Global 500 in 2023" with excellent performance in comparability.

Readability (★★★★★)

The framework structure of the Report is clear. From the six chapters including "common", "common prosperity", "common defense", "sharing", "going together" and "talking together", it systematically shows the performance of enterprises in corporate governance, scientific and technological innovation, going green and environmental protection, win-win partners, harmonious communities, responsibility management, etc., and fully responds to the expectations and demands of stakeholders; the high-definition and infectious real-life pictures are adopted across chapters in the cover and chapters to show the characteristic performance scenes and highlight the characteristics of the industry; the report is concise in typesetting, illustrated with pictures and texts, flexible in expression, rich in reading experience and excellent in readability.

Innovative (★★★★★)

At the beginning of the Report, in the special form of "Contribution of CNBM for Sustainable Development" and "Building ESG CNBM's Power to Help Chinese Modernization", it corresponds to the responsibility issues of SDGs and ESG standard systems one by one, systematically combs the annual key responsibility actions, discloses responsibility performance in detail, and highlights the image of corporate international responsibility; The ten-year special issue of "the Belt and Road Initiative" was released and 13 subordinate units were continuously promoted to issue responsibility reports, which built a multi-form and multi-level reporting ecology, further improved the influence of responsible brands, and achieved outstanding innovation performance.

Comprehensive Rating (★★★★★)

According to the evaluation of the rating team, the process, completeness, substantiality, balance, comparability, readability and innovation of 2022 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.



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 fourth 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

Leader of Rating Team

Expert of Rating Team



Time to Issue: October 23, 2023

Scan code to view Enterprise rating file

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:

Overall evaluation of the report: Very good Good General Not good Rather poor

Richness of Content: Very good Good General Poor Rather poor

Suitability of Page Number: Very good Good General Poor Rather poor

Aesthetic Degree of Design: Very good Good General Poor Rather poor

Friendliness of Language: Very good Good General Poor Rather 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?

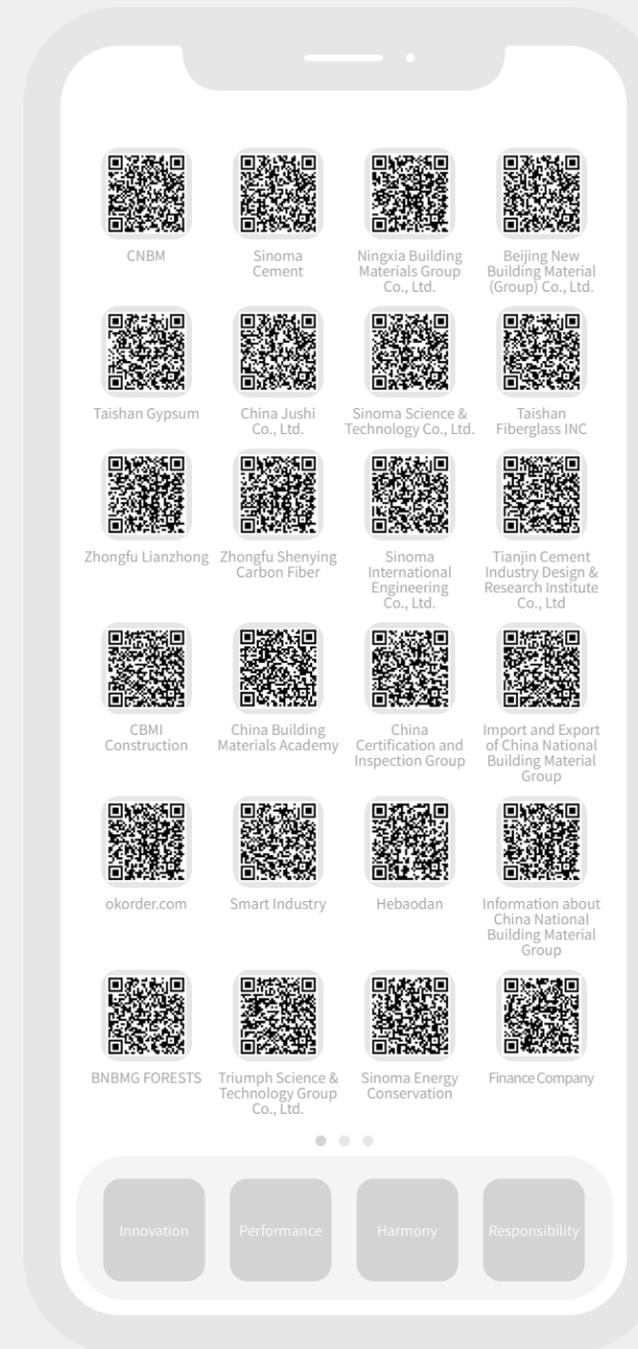
Government departments Institutional investors Medium and small shareholders Financial institutions Industry associations
 Suppliers Customers Enterprises in the same industry Partners CSR professional organization Non-profit organization
 News media Middle and senior management personnel of the group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

Name: _____ Occupation: _____ Institution: _____

Contact Address: _____ Post Code: _____ E-mail: _____

Telephone: _____ Fax: _____



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