

SUSTAINABILITY REPORT 2024

Report Norms

This Report is the sixteenth 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.

Reporting Cycle

This Report is an annual report.

Basis for Preparation

Sustainable Development Goals (SDGs) of 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 theStandardization Administration of China (GB/T36001-2015)
Guiding Opinions on the Implementation of Social Responsibility by Central Enterprises with High Standards in the New Era issued by the State-owned Assets Supervision and Administration Commission of the State Council (SASAC)
Guiding Opinions on Better Fulfilling Social Responsibilities of State-owned Enterprises, issued by the SASAC
China Corporate Sustainable Development Report Guide (CASS-ESG 6.0), published by the Responsibility Cloud Research Institute of the China Enterprise Reform and Development Society; China CSR Reporting Guidelines for the Non-metallic Mineral Products Industry (CASS-ESG 6.0)

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, 2024. Some of the content goes beyond the above period.

Data Sources

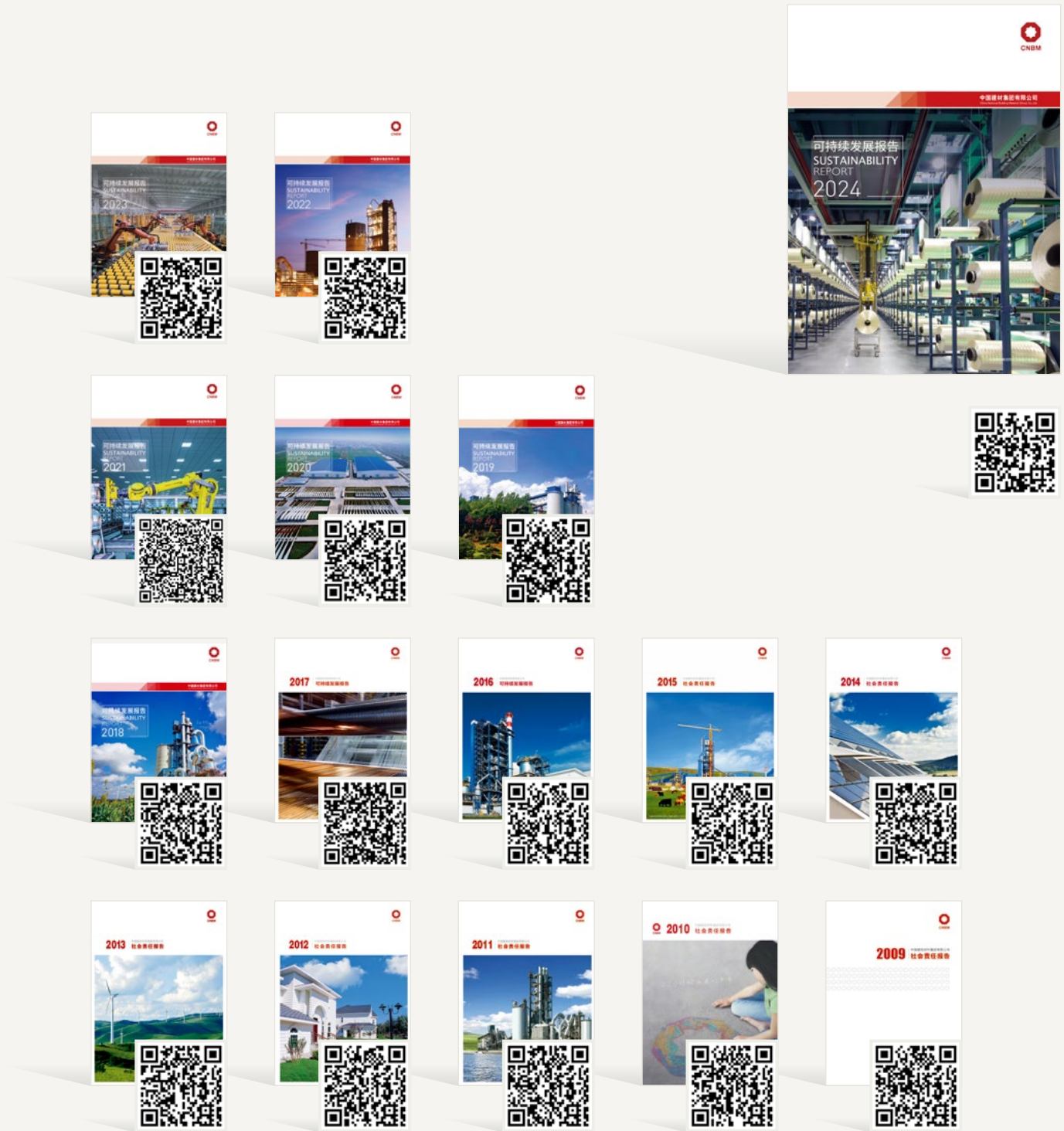
The information and data used herein come from the Headquarters and member enterprises of CNBM. Notes have been made in the Report to indicate information from external references. Unless otherwise stated, all monetary amounts are expressed in RMB.

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.



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Party Secretary and Chairman



"All good principles should adapt to changing times to remain relevant."In 2024, the successful convening of the Third Plenary Session of the 20th CPC Central Committee sounded the clarion call for further deepening reform and opening new horizons for Chinese modernization. As the only central state-owned enterprise in China's building materials sector, CNBM was born out of reform and has grown stronger through reform. Guided by the mission of "creating a better world with materials" and under the banner of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we have strengthened our resolve and resilience in advancing reform. With a steadfast belief in serving the "Top Priorities of the Country", and a strong sense of responsibility to build the "Pillar of the Country", we have advanced with confidence and resilience through industry cycles. Focusing on enhancing our core functions and strengthening our core competitiveness, we have continued to drive progress on both traditional and strategic emerging industries, fully leveraging our "three major roles", and written a new chapter in high-quality development.

With the spirit of perseverance, we have pressed forward with determination in our transformation and upgrading journey.

We have advanced the reform of transforming into a state-owned capital investment company in greater depth, strengthening our positioning in the new core businesses of non-metallic materials manufacturing and capital investment. We have shouldered the responsibility as the chain chief of the modern industrial chain for low-carbon inorganic non-metallic materials, successfully launched the first "Low-Carbon Inorganic Non-Metallic Materials Modern Industrial Chain Collaboration Action," and improved our dual-driven model of technology and capital. Our efforts in developing strategic emerging industries have reached an unprecedented level. The new materials sector has formed a tiered healthy ecosystem of "RMB 1 billion—RMB 5 billion—RMB 10 billion", and for three consecutive years, revenue has exceeded RMB 100 billion. Our "Global Rebuilding" initiative has accelerated significantly, establishing strategic partnerships with

leading international companies such as GPC and the Dangote Group. Our internationalization index rose by 2.87 percentage points year-on-year, creating broader opportunities for high-quality development in the future. More than 100 upstream and downstream enterprises, both domestic and overseas, participated in the fifth "Smart Use of Resources Day" open event, and for seven consecutive years, CNBM has been listed among the Global Top 500 Most Valuable Brands.

We believe that continuous innovation is the wellspring of vitality, and with this spirit we strive for breakthroughs in science and technology.

We have thoroughly implemented the guiding principles of the Central SOEs Science and Technology Innovation Conference, making innovation our top priority project, and continuously fostering new quality productive forces in non-metallic materials. Our initiative to build original technology incubation hubs has passed its mid-term evaluation, and the second phase of the "open competition mechanism" project has been fully launched. To date, 17 achievements have been included in the Catalogue of Recommended Scientific and Technological Achievements of Central SOEs. Our project on key technologies and equipment for next-generation float glass substrates won the National Technological Invention Award (Second Prize), while the world's first 8.6-generation OLED glass substrate independently developed and manufactured by CNBM successfully rolled off the production line. A number of new material products have supported "advanced equipment of the country" and made their way into everyday life. International cooperation in science and technology has continued to deepen. Together with 14 partners, we established a Green and Low-Carbon Building Materials Innovation Consortium, consolidating our global leadership in areas such as next-generation electronic fiberglass, wind turbine blades, and advanced ceramics, and securing a first-mover advantage in driving innovation-led growth.

Anchored in the spirit of perseverance and bold ambition, we have advanced resolutely in reform and innovation.

We have accelerated the transformation and upgrading of our industrial system through deeper, comprehensive reform. and new breakthroughs have been achieved in market-oriented operational mechanisms. Approaching digital transformation with a mindset of proactive change, our Group Data Center was awarded the highest national standard Class A certification, and the Intelligent Safety Production Management System now covers all operational enterprises. Fully implementing Xi Jinping Thought on Ecological Civilization and guided by the principle that 'lucid waters and lush mountains are invaluable assets,' we have accelerated our green

transformation through whole-lifecycle management. Our new low-carbon cement has completed pilot-scale trials, achieving more than 25% carbon reduction. CNBM has built the world's largest carbon capture project in the cement industry and the first zero-carbon fiberglass manufacturing base globally, continuously enhancing the "green quotient" of the materials industry.

Guided by a deep sense of responsibility and care for society, we have conveyed our commitment to shared development and the greater good.

Through implementing the "10-100-1000" science and technology talent development program, we have strengthened the talent map for emerging industries, executed targeted one-on-one training plans, and effectively supported employee growth and career development. At the first sign of emergencies, we promptly responded to the Dongting Lake dike rescue and disaster relief efforts, participating as one of the first companies to reinforce and seal breached sections, safeguarding lives, property, and social stability. We have convened dedicated meetings on targeted assistance, launched the "Science and Technology for Rural Revitalization" initiative, implemented 30 support projects, and received the highest evaluation for six consecutive years for our targeted rural revitalization efforts. For seven consecutive years, we have successfully held the "Shanjian" Colorful Classroom program, further demonstrating CNBM's role as a pillar of China's central SOEs and our commitment to societal responsibility.

Where the will leads, no distance is too far; even the most remote mountains or seas cannot limit it.

The year 2025 marks a critical period for fully implementing the spirit of the Third Plenary Session of the 20th CPC Central Committee and advancing comprehensive reform. It is the final year of the 14th Five-Year Plan and a key year for laying a solid foundation for a strong start to the 15th Five-Year Plan. In the new year, we will continue to be guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, firmly uphold the "Two Establishments", and resolutely achieve the "Two Upholds". CNBM will fully leverage its role as the "national team" and mainstay of the non-metallic materials industry, accelerate the development of a world-class materials investment group, and contribute even more to building a strong nation and realizing the great cause of national rejuvenation through tangible results in high-quality development.

About Us

Company Profile

China National Building Material Group Co., Ltd. (CNBM) is a central enterprise directly supervised by the State-owned Assets Supervision and Administration Commission of the State Council (SASAC). It operates as both a non-metallic materials manufacturer and a state-owned capital investment company. In 2016, China National Building Materials Group Corporation and China National Materials Group Corporation merged to form CNBM. As of the end of 2024, CNBM had total assets of RMB 710.436 billion, revenue of RMB 313.025 billion, and a total workforce of 198,600 employees. The Group has 13 listed companies, including 2 overseas listings. CNBM leads the world in seven business areas: cement, ready-mix

concrete, plasterboards, fiberglass, wind turbine blades, cement and glass engineering technology services, and more. In addition, its emerging materials businesses—such as ultra-thin electronic glass, high-performance carbon fiber, lithium battery separators, and ultra-high-voltage porcelain—are domestically leading.

CNBM is a technology-driven enterprise with strong research and development capabilities in China's non-metallic new materials sector. The Group employs 38,000 R&D and engineering professionals and operates 26 national-level research and design institutes. It holds over 28,000 valid patents, and maintains 2 national key laboratories, 8 national engineering (technology) research centers, 18 national enterprise technology centers, and 21 manufacturing "single champion" enterprises. CNBM participates in 17 national standardization committees, has won 4 China Grand Awards for Industry, and has drafted or revised more than 1,600 international, national, and industry standards.

CNBM is an international enterprise and a pioneer in the global expansion of China's building materials industry, actively participating in the Belt and Road Initiative. The Group holds a 65% market share in cement and glass engineering in international markets and has established investments across Africa, Europe, and Central Asia, steadily positioning itself at the center of the global building materials stage.

CNBM is among the first state-owned capital investment companies to receive formal approval. Following the "4335" guiding principles, the Group is accelerating three major transformations: from enterprise management to capital management, from building materials to comprehensive materials, and from a domestic market focus to a global presence. These efforts continuously enhance CNBM's competitiveness, innovation, control, influence, and resilience, and advance the cultivation of a world-class materials industry investment group with global competitiveness.

Corporate Culture

With a profound cultural heritage and a strong sense of responsibility as a state-owned enterprise, CNBM has cultivated a distinctive cultural system. Throughout its journey, CNBM has pursued the mission of "creating a better world with materials" and adhered to the principles of "serving the 'Top Priorities of the Country' and building the 'Pillar of the Country'" as well as "smart use of resources, services for construction". From these guiding philosophies, the Group has developed a unique value system for the building materials sector, including the "4335" guiding principle, the core values of "innovation, performance, harmony, and responsibility", and the code of conduct of "being reverent, grateful, humble, and appropriate".



Development Strategy

CNBM is committed to driving development through innovation, advancing growth through strategic emerging industries, promoting expansion through internationalization, and safeguarding progress through digitalization and dual-carbon initiatives, all underpinned by the leadership of Party building. The Group strives to build a world-class materials industry investment group with global competitiveness.

Adhering to the "Four Concepts"

- Concept of effective equity management
- Concept of deepening reform
- Concept of innovation-driven growth
- Concept of market-oriented operations

Establishing Three Closed-Loop Systems

- A closed-loop system for incentives and constraints centered on compensation
- A closed-loop system for investment management covering pre-, during-, and post-investment phases
- A closed-loop system for comprehensive supervision before, during, and after processes

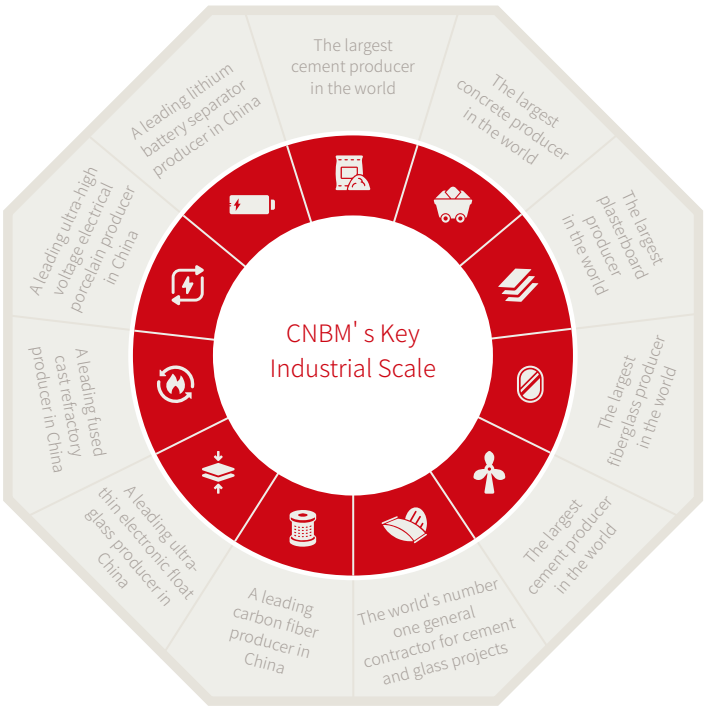


Achieving the Three Major Transformations

- From managing enterprises to managing capital
- From building materials to comprehensive materials
- From a domestic market focus to a global presence

Shaping a "Five-Strength" Enterprise

- Competitiveness
- Innovation capability
- Control capability
- Influence
- Risk resilience



Management team

According to the Company Law of the People's Republic of China and the requirements for standard operation of the Board of Directors, CNBM's Board of Directors has four special committees, of which the Remuneration and Appraisal Committee and Audit and Risk Committee consist solely of external directors.

Party Committee Standing Committee

			Zhou Yuxian Party Secretary	Chang Zhangli Deputy Party Secretary
Wang Yumeng Party Committee Standing Committee	Wei Rushan Party Committee Standing Committee	Liu Lei Party Committee Standing Committee Secretary of the Discipline Inspection Commission	Qu Xiaoli Party Committee Standing Committee	Deng Changqing Party Committee Standing Committee

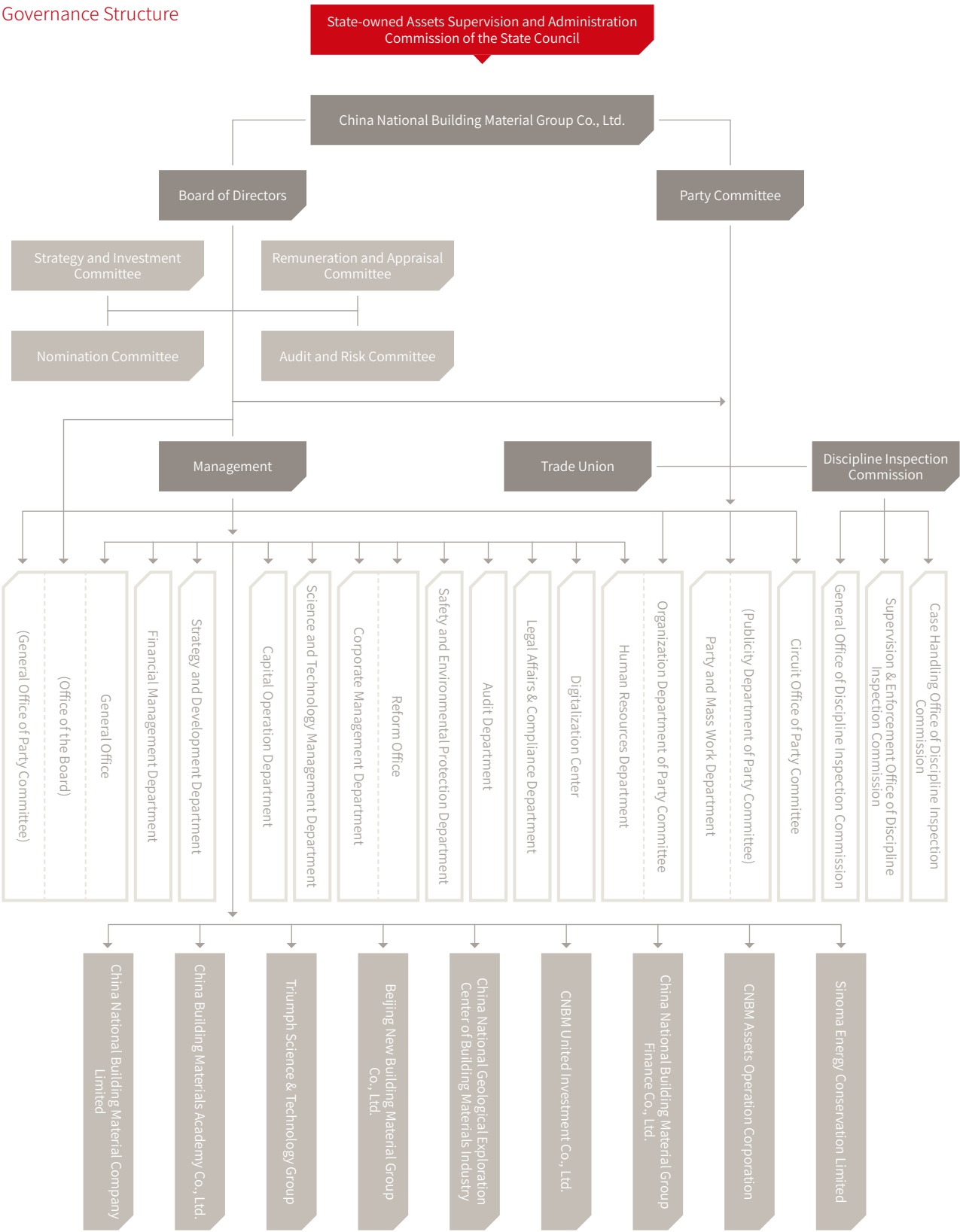
Board of Directors

Zhou Yuxian Chairman	Chang Zhangli Director	Cheng Niangao External Director	Wang Laixiang External Director	Cao Guangxiang External Director	Xia Ceming External Director
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Executive Management and Senior Executives

Chang Zhangli General Manager	Wang Yumeng Deputy General Manager	Wei Rushan Deputy General Manager	Qu Xiaoli Deputy General Manager
Deng Changqing Chief Accountant	Zhi Xiao Assistant to the General Manager		

Governance Structure



Main Lines of Business

Basic building materials



Cement and Ready-Mix Concrete

CNBM ranks first in the world in terms of cement and ready-mix concrete production. It operates 318 new dry-process cement production lines, with a cement production capacity exceeding 500 million tons and a ready-mix concrete capacity of around 400 million cubic meters. As part of its commitment to urban infrastructure, the company has 55 projects—operational or under construction—that use cement kilns to co-process waste, with a total annual disposal capacity of 5.84 million tons. In addition, its cement segment has built a total of about 2,000 MW of waste heat power generation capacity.

Key enterprises

Tianshan Material Co., Ltd., North Cement Co., Ltd., and Ningxia Building Materials Group Co., Ltd.

New Materials



Consumer Building Materials

With plasterboards, waterproofing materials, and coatings as its three core businesses, CNBM operates 120 industrial bases in China and overseas. Its plasterboard production capacity exceeds 3.5 billion square meters, making it the world's largest plasterboard and keel industry group, with well-known brands such as Dragon, Taishan, and Dream. Its waterproofing business ranks among the top three nationwide, represented by renowned brands including Yuwang and Shuyang. In coatings, BNBM Carpoly ranks fourth in China's architectural coatings market; the century-old Beacon brand, recognized as a "China Time-Honored Brand," has long served major national projects; and the prestigious Great Bridge brand is a leading name in China's industrial protective coatings sector. These products are widely applied in national landmark projects and key facilities such as the Great Hall of the People, Olympic venues, and World Expo pavilions, as well as in modern homes, supporting the pursuit of a better life for the people.

Fiberglass

CNBM holds a global market share of over 40% in fiberglass, ranking first worldwide in production scale. It operates 10 major production bases in Tongxiang (Zhejiang), Jiujiang (Jiangxi), Chengdu (Sichuan), Huai'an (Jiangsu), Taian (Shandong), Zoucheng (Shandong), Zibo (Shandong), Taiyuan (Shanxi), Suez (Egypt), and South Carolina (USA). The Group has developed fully proprietary oxygen-fuel combustion large pool furnace drawing technology and complete sets of intelligent production equipment, and has built the world's first zero-carbon intelligent manufacturing base. It has successfully developed more than 20 major categories and 3,000 product specifications, including high-modulus, high-strength fiberglass. These products are widely applied in advanced equipment, new energy, 5G communications, and marine engineering, and are exported to more than 100 countries and regions. CNBM's achievements in this sector have been recognized with top honors such as the China Grand Awards for Industry, the National Science and Technology Progress Award, and the China Patent Gold Award.

Wind Turbine Blades

With an annual capacity of approximately 34 GW, CNBM ranks first in the world in wind turbine blade production, holding a domestic market share of over 30%. The Group has developed a full product lineup from 1.0 MW to 20 MW+, offering more than 200 blade models tailored to a wide range of operating environments, including high and low temperatures, high altitudes, low wind speeds, coastal regions, and offshore settings. Thanks to its large-scale and highly specialized manufacturing capabilities, CNBM is among the global leaders in the sector. Its wind blades are exported across six continents to 46 countries.

Lithium Battery Separators

CNBM has a production capacity of over 6.2 billion square meters, with seven manufacturing bases and one equipment production base across China. It is among the first in the industry to master both synchronous and asynchronous stretching technologies for high-performance wet-process separators. Its product portfolio covers 3–12 μm wet-process separators and a wide range of coated separators, widely applied in new energy vehicle power batteries, 3C consumer batteries, and energy storage systems. CNBM has achieved a 90% adoption rate among the world's top 10 battery manufacturers.



Key enterprises

Beijing New Building Material Public Limited Company

Key enterprises

Zhongfu Shenying Carbon Fiber Co., Ltd



Key enterprises

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

Key enterprises

Triumph Science & Technology Group



Key enterprises

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

Key enterprises

Triumph Science & Technology Group



Key enterprises

Sinoma Lithium Battery Separator Co., Ltd.

Key enterprises

Sinoma Advanced Materials Co., Ltd

Carbon Fiber

Driven by indigenous proprietary innovation technologies, CNBM currently has a production capacity of 29,000 tons, with an additional 30,000 tons under construction, ranking among the top three globally. For T700-grade and above high-performance carbon fiber, the company has maintained a domestic market share of over 50% for consecutive years. Its products are widely applied in aerospace, new energy and infrastructure, rail transit, and low-altitude economy sectors, earning prestigious honors such as the National Science and Technology Progress Award (First Prize) and recognition as one of the "Top 10 Mega-Projects of China's Central SOEs".

High-quality Float Glass

CNBM ranks among the top five producers of float glass in China, with a second-generation intelligent demonstration line built on fully independent intellectual property rights. Its product portfolio covers premium architectural glass, high-grade automotive glass, tinted and coated glass, ultra-clear glass, solar thermal glass, and alumina-rich glass. In deep processing, offerings include LoW-E coated glass, insulated glass, vacuum glass, and smart light-control glass. These products are widely used in construction, automotive, home appliances, photovoltaics, and mirror manufacturing, and are exported to nearly 100 countries and regions, including Southeast Asia, Europe, and South America.

New Glass Materials

CNBM has achieved a series of "firsts in China and the bests in the world" in industrialized glass innovation. The Group operates five furnaces with 26 production lines, totaling a capacity of 4,350 t/d of photovoltaic glass, including the world's first 1,200 t/d single-furnace eight-line photovoltaic glass production line, setting a new industry record for finished sheet yield. CNBM successfully rolled out the world's first large-area cadmium telluride photovoltaic glass, and its copper indium gallium selenide (CIGS) photovoltaic glass achieved a world-record photoelectric conversion rate. The Group has built the largest single-unit thin-film photovoltaic building-integrated application demonstration project and applied it across multiple scenarios. It has also pioneered 5.0 neutral borosilicate pharmaceutical glass production technology, enabling China to produce vaccine vials domestically, and established the only national innovation center for new glass materials in the industry. With a global market share exceeding 65% in high-end glass engineering, CNBM continues to maintain its position as the world leader.

Advanced Ceramics and Artificial Crystals

CNBM has developed a range of products—including nonlinear optical crystals, infrared optical window materials, micro-nano crystalline materials, piezoelectric crystals, third-generation semiconductor crystals, and functional diamond crystals—that reach international or domestic leading levels. These products are widely used in high-tech fields such as lasers, optoelectronics, communications, and aerospace, playing a critical "core" role in many major national projects and strategic emerging industries. Focusing on key common technologies and the transformation of scientific achievements within the industry, CNBM has fostered the development of silicon carbide ceramics, silicon nitride ceramics, alumina ceramics, ultra-high-voltage porcelain, ceramic membranes, quartz ceramics, and foamed ceramics. These innovations have made significant contributions to China's strategic emerging industries, including high-end equipment, new materials, new energy, and energy conservation and environmental protection.

Engineering and Technical Services



Engineering and Technical Services

CNBM is the world's largest provider of engineering, equipment, and technical services for the cement and glass industries, offering a complete industry chain of solutions. It provides one-stop system integration services that cover research and development, design, equipment manufacturing, construction, commissioning, and production operations and maintenance. CNBM holds a 65% share of the international market in this sector.

Key enterprises

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



Moving Towards Innovation, Empowering New Quality Productive Forces

“We will improve the institutions and mechanisms for fostering new quality productive forces in line with local conditions.” “Foster new industries, new models, and growth drivers”

—The Third Plenary Session of the 20th CPC Central Committee

“Driving the development of new quality productive forces through scientific and technological innovation” is a major strategic initiative by the CPC Central Committee with Comrade Xi Jinping at its core. It is of great significance for achieving the goal of building a modern socialist country in all respects, gaining strategic initiative in intense international competition, and meeting the people’s growing needs for a better life. As a Fortune Global 500 enterprise and the only central SOE in the building materials industry, CNBM has always upheld the corporate mission of “Creating a better world with materials”. The Group deeply understands the strategic importance of developing new quality productive forces, strives to strengthen its core functions, enhance core competitiveness, and transform the achievements of developing new quality productive forces into tangible outcomes for high-quality development, thereby contributing to the acceleration of Chinese modernization.



Intelligent Float Glass Demonstration Production Line

Technological Innovation, Exploring New Frontiers

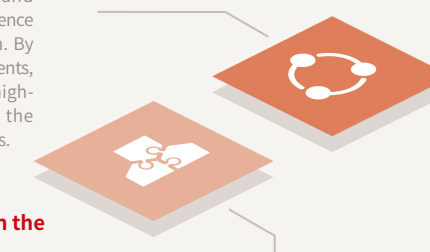
Technological innovation, as the core driver of new quality productive forces, fosters the emergence of new industries, new models, and new growth drivers. Guided by an innovation-driven development strategy, CNBM actively leverages the innovative capabilities of its 26 national-level research and design institutes, 2 national key laboratories, 8 national engineering (technology) research centers, and 4 overseas R&D institutions. The Group focuses on enhancing core competitiveness through technological innovation and strengthening core functions through industrial innovation. This has resulted in a comprehensive cluster of world-class new materials products, technologies, and equipment, including high-end cementitious materials, plasterboards, innovative glass materials, high-performance fiberglass, high-performance carbon fiber, megawatt-class wind turbine blades, and thin-film solar cells. These advancements have played a critical role in driving technological innovation, controlling the industry, and ensuring safety, making important contributions to breaking foreign monopolies and securing the safety of national industrial and supply chains.



National Glass Key Laboratory

Aligning the Innovation Chain with the Industrial Chain

- CNBM deepens long-term cooperation with universities and research institutions and actively participates in “Belt and Road” science and technology innovation cooperation. By leveraging global technological achievements, abundant intellectual resources, and high-end talent, the Group is accelerating the development of overseas joint laboratories.



Aligning the Industrial Chain with the Innovation Chain

- As a technology-driven enterprise, CNBM plays both the role of “problem proposer” and “problem solver”. In fields such as lithium battery separators, fiberglass, and innovative glass materials, the Group is exploring a “self-solving” model supported by its own high-end equipment companies or R&D centers. This approach accelerates the establishment of industry-research cooperation mechanisms based on shared risk and reward, joint intellectual property rights, and locked protection periods.
- Leveraging the advantages of a state-owned capital investment company, CNBM uses long-term capital, patient capital, and strategic capital to support the faster transformation of innovation achievements into practical results. To date, the Group has cultivated 405 high-tech enterprises and developed 21 manufacturing “single champion” enterprises, continuously injecting new momentum and opportunities into the development of new quality productive forces.



- 1 Silicon nitride products
- 2 Ultra-clear photovoltaic glass
- 3 High-modulus fiberglass
- 4 China's first 8.5-generation TFT-LCD glass substrate
- 5 Elemental-level CVD zinc sulfide
- 6 70 MPa type IV hydrogen storage cylinder
- 7 High-performance carbon fiber
- 8 Lithium Battery Separators

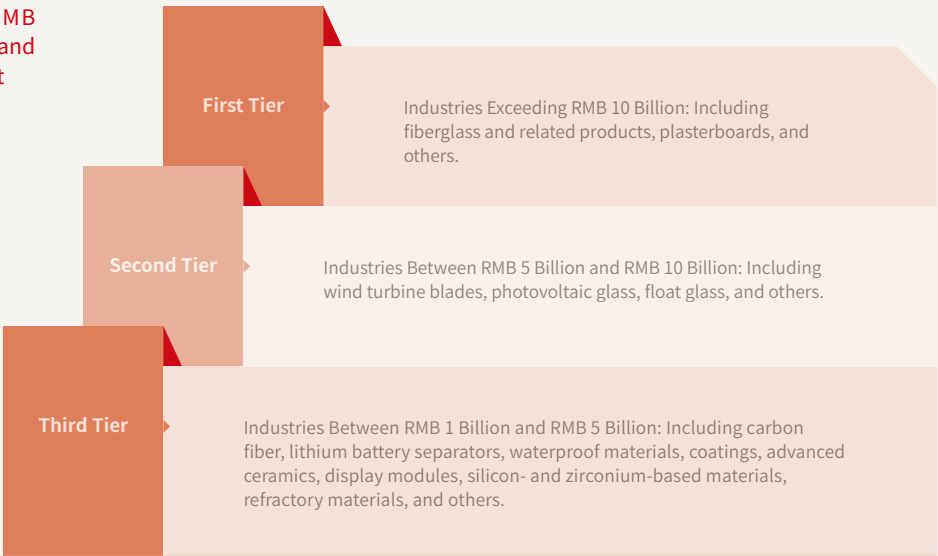
Industrial Material
Innovation, Empowering
New Growth Drivers

Guided by the innovation-driven development strategy, CNBM embraces the principle of "Serving the Top Priorities of the Country" and strives to build the "Pillar of the Country". Staying true to its core responsibilities and main businesses, the Group leverages technological innovation to drive industrial innovation, actively advancing three strategic priorities: high-end development,

green transformation, and intelligent manufacturing. CNBM adopts a dual approach—accelerating the transformation and upgrading of traditional industries while advancing the layout of strategic emerging industries. The Group is fully committed to transforming high-level technological innovations in areas such as high-performance carbon fiber, lithium battery separators, refractory materials, advanced ceramics, photovoltaic glass, and artificial crystals into industrial achievements. This supports the creation of a tiered new materials industry system of "RMB 1 billion–RMB

5 billion–RMB 10 billion+", accelerating the cultivation of new quality productive forces from technological innovation to industrial deployment to better serve the new development paradigm. The Group has independently developed more than 110 varieties across eight major categories of special cement, including low-heat cement, oil well cement, nuclear engineering cement, marine engineering cement, and transportation cement, meeting urgent needs for major engineering projects in China.

CNBM's "RMB 1B–RMB 5B–RMB 10B+" Tiered Industrial System and New Materials Ecosystem Layout



Fiberglass manufacturing robotic arm



Zhongfu Shenyang high-end carbon fiber plant

Data Overview · 2024

Investment in Strategic Emerging Industries

RMB **21.254** billion



Revenue from Strategic Emerging Industries

RMB **127.936** billion



Strategic Emerging Industries

3 consecutive years

Achieved over RMB 100 billion in revenue and RMB 10 billion in profit



Accounting for

61.24 %



A YoY growth of

10.40 %



Our Achievements

- Sinoma Science & Technology Co., Ltd. has initiated and received approval for two key research projects on special-function fiberglass technologies.
- Sinoma Science & Technology Co., Ltd. successfully rolled out a 147-meter ultra-large composite wind turbine blade.
- Triumph Science & Technology Group Co., Ltd. successfully launched the world's first 8.6-generation OLED ultra-thin float glass substrate, marking a major breakthrough for China in OLED display materials.
- Triumph Science & Technology Group Co., Ltd.'s independently developed high-generation TFT-LCD ultra-thin float glass substrate technologies and equipment won the Second Prize of the National Science and Technology Invention Award 2023.
- Zhongfu Shenyang has completed a hundred-ton-level T1100/T1100G-grade carbon fiber engineering demonstration line.
- China Building Materials Academy has built the first domestically produced glass bead production line with a daily output of 2 tons of cured substrate.
- Three landmark projects—special fiberglass for artificial intelligence, carbon fiber and composite materials for large aircraft, and flexible OLED display glass—were selected for the "Top 100 Projects" in Strategic Emerging Industries by the SASAC.

We align with the development direction of emerging industries and leverage diversified investment approaches to actively participate in and lead strategic mergers and acquisitions, accelerating efforts to address gaps in key materials sectors. We are committed to building multiple new materials industry platforms with revenues exceeding RMB 5 billion, promoting domestic

substitution, civilian market adoption, and large-scale stable production of high-performance composite glass materials, advanced ceramics, and artificial crystals. We continue to strengthen our support capacity in critical areas such as new materials and new energy, accelerate the layout of new value-creating fields and emerging sectors, and focus on cultivating a large number of "specialized, refined,

distinctive, and innovative" enterprises, as well as "single champion" enterprises. In 2024, China Building Materials Academy Co., Ltd., Nanjing Fiberglass Research & Design Institute Co., Ltd., and Zhongfu Shenying Carbon Fiber Co., Ltd. were successfully selected as part of the eighth batch of Manufacturing "Single Champion" Enterprises.

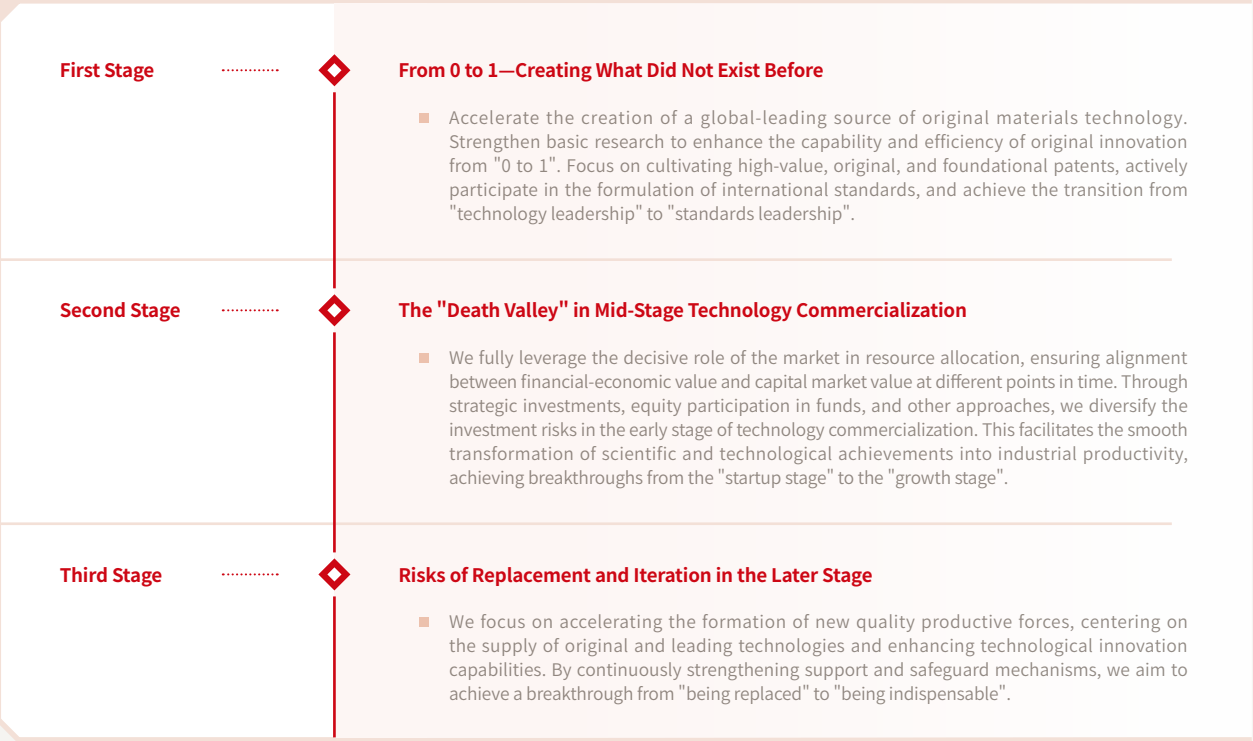


▲ The 147-meter wind turbine blade passed static load testing of Sinoma Wind Power Blade Co., Ltd.



▲ The second annual 100,000-ton fiberglass production line of China Jushi's Huai'an "Zero-Carbon" Intelligent Manufacturing Base was successfully commissioned.

CNBM's Layout in Strategic Emerging Industries: Braving the "Death Valley"



▲ BNBM Waterproofing's polymer membrane production line



▲ BNBM Carpoly Coatings's modernized production workshop



▲ China Jushi's intelligent manufacturing production line

Triumph Science & Technology Group continues to strengthen the R&D and industrialization of photovoltaic glass. The cadmium telluride photovoltaic glass production line achieved a conversion rate exceeding 17.7%, while the copper indium gallium selenide (CIGS) photovoltaic glass's photoelectric conversion efficiency increased from 15.8% to 20.3%, ensuring the company maintains its global leadership in photovoltaic glass technology.

After completing the technical research for refractory materials, Ruitai Technology further improved the semi-forced annealing process of fused cast alumina refractory products based on the "annealing equipment for fused cast refractories", significantly increasing the yield of fused cast alumina products and achieving industrialization.

China Testing & Certification International Group Co., Ltd. serving as the head unit for China Green Product Certification in the building materials sector, a carbon emission verification body, and an Industrial Energy Conservation and Green Development Evaluation Center, actively provides technical support for the nation's green and low-carbon initiatives. The group has conducted verification for over 3,000 enterprises across 24 industries in more than 20 provinces and municipalities, and has issued over 2,000 green product certification certificates.

The total daily water production capacity of the membrane housings supplied by Harbin ROPV Industrial Co., Ltd for the large international seawater desalination project won in 2024 is 2.52 million tons, leading the global desalination project in terms of membrane housing utilization rate.

Leveraging breakthroughs in key core technologies such as high-performance ceramic wave-transparent materials, the Shandong Research and Design Institute of Industrial Ceramics Co., Ltd. has established a large-scale domestic manufacturing base for ceramic radomes with superior performance. This base enables rapid response capabilities in supplying key core materials and radomes for various equipment models in aviation, aerospace, naval vessels, and other fields. Currently, it possesses an annual production capacity of 10,000 wave-transparent components.

The high thermal conductivity silicon nitride ceramic substrates produced by Sinoma Advanced Nitride Ceramics Co., Ltd. are widely used in components such as new energy vehicles, hybrid vehicles, high-speed rails, motor drive modules, and new energy charging piles. Their production line for silicon nitride ceramic products, with an annual capacity of 200 tons, has also commenced operation.

Sinoma Science & Technology (Suzhou) Co., Ltd. specializes in fuel cell hydrogen cylinders, hydrogen storage and transportation containers, compressed natural gas (CNG) cylinders, and high-end industrial gas storage and transportation equipment. Its products and services are widely used in various fields including automotive manufacturing, gas storage and transportation, drones, and special equipment. With an annual production capacity exceeding 700,000 cylinders, the company holds a 70% share in the domestic vehicle OEM market for CNG cylinders, ranking first for nine consecutive years. Additionally, it commands over 30% of the domestic market share for hydrogen storage cylinders used in fuel cells.

Responsibility Focus

II

Global Rebuilding, Advancing the Vision of a World-class Enterprise

It is essential to prioritize the establishment of mechanisms for high-quality Belt and Road cooperation. This includes improving the planning and coordination management mechanism for Belt and Road projects, enhancing the coordinated advancement of "hard connectivity", "soft connectivity", and "people-to-people connectivity", strengthening practical cooperation mechanisms for industrial and supply chains, and fostering international exchange and collaboration in emerging fields. Additionally, efforts should be made to diversify investment and financing safeguards, optimize internal and external risk prevention and control mechanisms, strengthen the protection of overseas interests, enhance high-level international communication, and promote integrity cooperation within the Silk Road initiative. These measures will ensure the steady and long-term progress of high-quality Belt and Road cooperation.

—Emphasized by General Secretary Xi Jinping at the fourth Belt and Road Construction Symposium on December 2, 2024



▲ Zhou Yuxian, Secretary of the Party Committee and Chairman of the Group, participated in the fourth Belt and Road Construction Symposium as one of the representatives of central enterprises

Scan the QR code to watch CCTV's "Focus Interview" report on the international development of CNBM



Our International Achievements · 2024

- Established 196 overseas institutions across 76 countries and regions worldwide
- Completed 45 fixed-asset investment and equity acquisition projects in 27 countries
- Led or participated in the formulation and revision of 58 international standards
- Executed nearly 500 high-quality international cement and glass engineering projects
- Built 41 overseas warehouses and building materials chain stores in 11 countries
- Ranked among the Global Top 500 Brand Value list for 7 consecutive years

Our International Honors · 2024

- Deepening the Belt and Road Initiative, Advancing with the World was selected as an outstanding overseas ESG case study in the Blue Book on Overseas ESG for Central State-Owned Enterprises (2024).
- The Zambia Industrial Park project was included as a demonstration case in the pilot evaluation system for overseas security work by the Ministry of Foreign Affairs and received the "Africa Safety Award for Excellence" from AfriSAFE.
- Building Dreams on the Silk Road—The Struggle of a Young Man in an Ancient City, a work by BNB Central Asia, was selected for the "Silk Road Z Generation" collection.
- Three works—including "The Flower of Struggle Blooms on the Silk Road" by CNBM PNG LTD, and "A Day in the Project Department" by Sinoma Int (Nanjing)—won the Excellent Work Award at the 6th Belt and Road Initiative Short Video Competition. Since the competition's inception, submissions from the Group have won awards for six consecutive years.

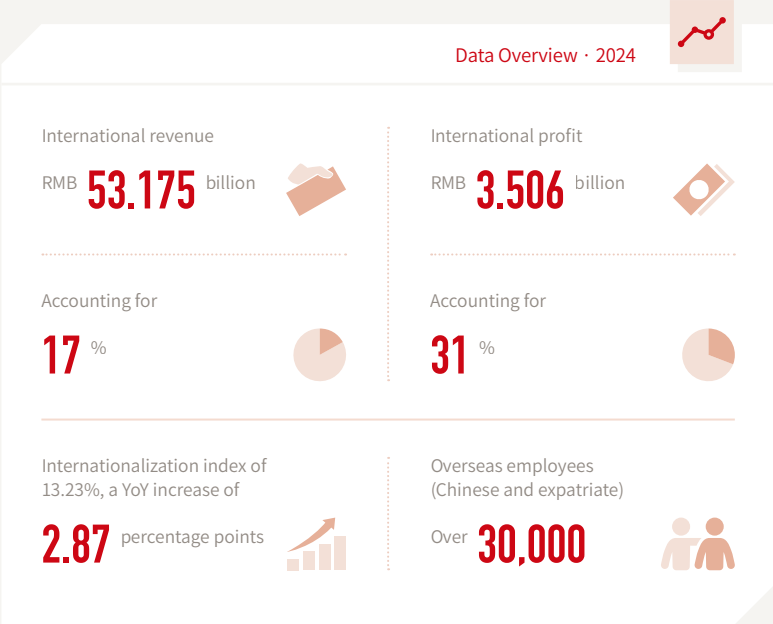
Scan the QR code to view award-winning short videos from CNBM in the Belt and Road Initiative Short Video Competition



▲ On November 15, 2024, Zhou Yuxian, Secretary of the Party Committee and Chairman of the Group, attended the Group's Internationalization Special Training Session and delivered a thematic lecture titled "Practices and Reflections on the Group's Internationalization".

Pioneering the Silk Road, Building Global New Landmarks

The Silk Road bridges nations, and the blueprint inspires progress. CNBM has thoroughly implemented the important guiding principles delivered by General Secretary Xi Jinping at the Belt and Road Construction Symposium, steadfastly advancing the "Going Global" strategy. By accelerating integration into the new development paradigm, the Group has continuously expanded its international business ecosystem, achieving accelerated deployment of its "Overseas Rebuilding" initiative.



Expanding Markets and Accelerating the "Going Global" Strategy for All Business Segments

As the world's largest building materials manufacturer and a leading developer of new materials and integrated services, CNBM has actively responded to the Belt and Road Initiative, continuously exploring international

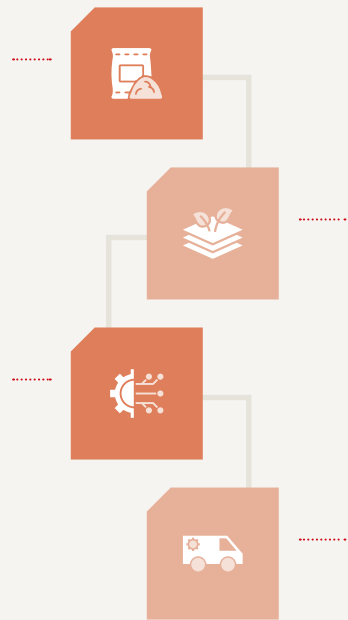
markets and growth opportunities. By accelerating integration into the new development paradigm, the Group has elevated its international business and localized development to new heights.

Basic building materials

- In the overseas business, the Group achieved revenue of RMB 880 million and a total profit of RMB 180 million, representing a year-on-year increase of 0.5% in revenue and a decrease of 2.6% in profit. Notably, the cement merger project in Tunisia was successfully signed, and comprehensive energy consumption per ton of cement clinker continued to decline.

Engineering and technical services

- In the engineering and technical services overseas business, revenue reached RMB 27.35 billion, with a total profit of RMB 2.09 billion and new contract signings valued at RMB 68.15 billion. Year-on-year changes included a 3.6% increase in revenue, a 6.7% decrease in profit, and a 2.1% decrease in new contracts. A landmark achievement was the ignition and operation of the world's first clinker production line using 90% alternative fuel.



New Materials

- The new materials overseas business recorded revenue of RMB 13.69 billion and a total profit of RMB 1.01 billion, reflecting a 12.8% rise in revenue and a 24.6% decline in profit. Key developments included the approval of the lithium film project in Europe, a fivefold year-on-year increase in sales of calcium silicate boards in Nigeria, and the launch of construction for the stone slab project in Thailand.

Logistics and trade

- The segment reported overseas revenue of RMB 11.05 billion and a total profit of RMB 210 million, reflecting a year-on-year increase of 11.7% in revenue and a decrease of 19.2% in profit. Revenue from building materials supermarkets and the "okorder.com" platform grew by over 30%.



The 1-megawatt photovoltaic power station, a supporting facility of the Saudi YAMAMA project—the world's first 10,000-ton production line built through relocation —undertaken by Sinoma Overseas, has achieved grid-connected power generation.



The 15-megawatt air-cooled waste heat power generation project, a supporting facility of the BASTAS cement plant owned by the French VICAT Group and undertaken by Shanghai Triumph Energy Conservation Engineering Co., Ltd. as the general contractor, has successfully passed the project acceptance inspection.



Following the successful ignition of the Poland-based MAL01 project undertaken by Sinoma International Intelligent Technology Co., Ltd. (KISEN), the first batch of clinker has been successfully produced. This project is Holcim Group's largest ongoing construction project in Europe and the world's first clinker production line to utilize 90% alternative fuels.



CNBM New Zealand has launched its first community-shared energy storage project at the "marae". The project distributes electricity to nearby residential communities through a power-sharing system and allows for flexible scaling and configuration based on the community's future electricity demands.

CNBM Saudi Arabia Promotion Meeting was successfully held in Riyadh

On September 25, 2024, CNBM successfully held a promotion meeting in Riyadh, the capital of Saudi Arabia. More than 120 guests, including representatives from the Chinese Embassy in Saudi Arabia, Saudi government departments, 35 business partners around the world, 8 investment institutions, and renowned domestic and international media outlets, attended the meeting. At the meeting, the guests officially unveiled the "Saudi Integrated Service Center". As CNBM's unified equipment service platform in the Middle East, the center will provide regional clients with professional services, including equipment supply, processing and maintenance, operational support, and technical training for upgrades. This initiative will significantly enhance the company's equipment service capabilities and promote the application of CNBM's high-quality cement equipment in the Middle Eastern market.

The promotion meeting further strengthened CNBM's ties with the Saudi government, investment institutions, and local enterprises. It laid a solid foundation for advancing the strategic alignment between China's Belt and Road Initiative and Saudi Arabia's Vision 2030, fostering comprehensive cooperation and mutual benefits.



Pursuing Mutual Success and Pioneering Multi-Dimensional "Leadership"

CNBM is committed to deepening exchanges and cooperation with global industrial chains, supply chains, partners, and leading enterprises in the industry. This has vigorously expanded the breadth and depth of its international collaboration, introducing more advanced technologies and management expertise. These efforts facilitate the optimal allocation

of resources and the expansion of overseas markets, effectively enhancing the Group's innovation capabilities in international development and its leadership within the industry, steadily progressing towards building a strong international presence. In 2024, the Group further intensified international cooperation across the industrial chain, promoting synergistic development among upstream and downstream enterprises. The logistics and trade sector actively developed new foreign trade models, such as "cross-border e-commerce + overseas warehouses

+ overseas building materials supermarkets". Sales of domestic automobiles through overseas warehouses reached 6,714 units, a year-on-year increase of 156%, while sales of photovoltaic modules reached 300 MW, a year-on-year growth of 33%. These initiatives provide essential services and support for the global expansion of the Group's industries and other Chinese enterprises.

Comprehensive Deepening of Overseas Cooperation



CNBM entered into a strategic partnership with Saudi Aramco



CNBM signed a comprehensive strategic cooperation agreement with Dangote Group



CNBM signed a strategic cooperation agreement with Europe's GPC Group



CNBM signed a cooperation agreement with Ahmadu Bello University in Abuja, Nigeria, to establish the China-Africa Joint Laboratory for Green Building Materials

Multi-Dimensional Expansion of Overseas Exchanges



CNBM held a meeting with Khalid Al-Falih, Minister of Investment of Saudi Arabia, conducting in-depth discussions on technological and capital cooperation in areas such as low-carbon building materials, new materials, and new energy materials



China National Building Material Group FZE Successfully Hosted the 3rd CNBM Dubai New Energy Conference



The 2024 Annual Dealer Conference of CNBM Roofing System FABCOM was held in Abuja and Lagos, Nigeria respectively

Inclusive Prosperity, Building a Community with a Shared Future

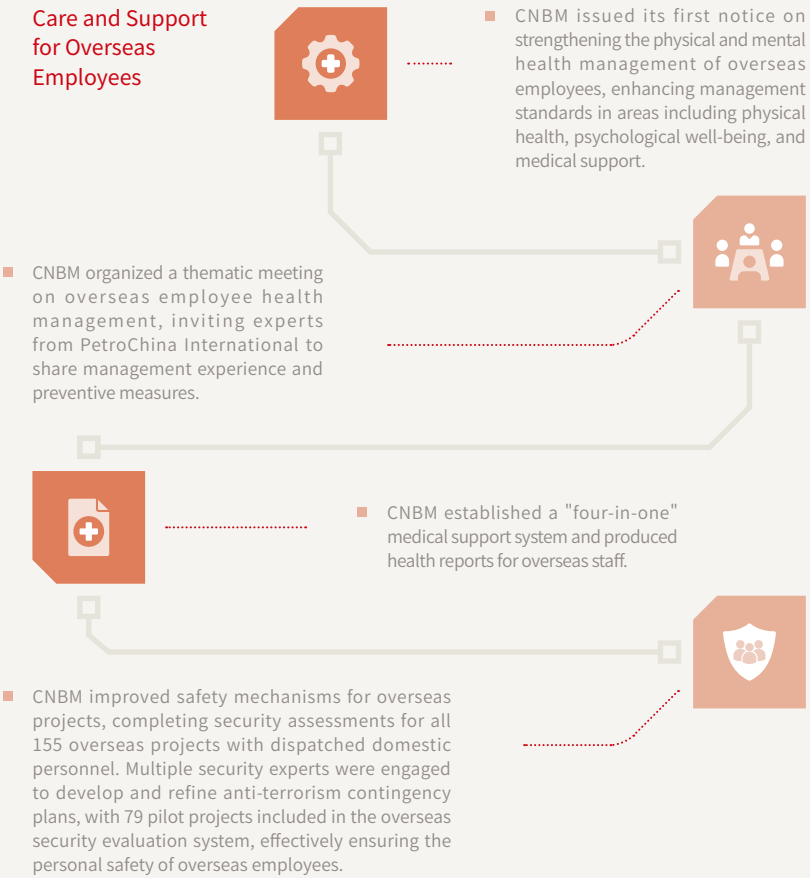
Bonded by the Silk Road, together we create the future. Throughout its long-term international development journey, CNBM has adhered to its three distinctive principles for international cooperation and mutual benefit: contributing to local development, cooperating with local enterprises, and serving local communities. Staying true

to its mission of "Creating a better world with materials", CNBM actively fulfills its responsibilities as a global citizen. By advancing its internationalization, the Group contributes to building a Community with a Shared Future for Mankind, writing a remarkable chapter of mutual integration and common development for China and the world.

Heart-to-Heart Bonds, Composing an "Ode" to a Shared Future

CNBM prioritizes care and support for its overseas employees, safeguards their rights and interests, and respects local cultures and religious beliefs, fostering harmonious coexistence between Chinese and local staff. The Group is deeply committed to improving livelihoods in its host countries, actively participating in infrastructure development in Belt and Road partner regions and project locations. It also focuses on enhancing community well-being and promoting educational development in these areas, aligning with local aspirations, delivering tangible benefits, and winning public support. By contributing to local economic growth and quality of life, CNBM strives to add building material strength to the cause of building a global Community with a Shared Future.

Care and Support for Overseas Employees



The Group held a thematic meeting on physical and mental health management of overseas employees



Chang Zhangli, Deputy Secretary of the Party Committee and General Manager of the Group, meets with outstanding foreign employees in 2024



BNBM CENTRAL ASIA held a charity donation event titled "Gathering the Power of Love, Lighting the Lamp of Hope" at an orphanage in Kokand



Sinoma Int carried out a school donation activity in Nigeria

Enhancing the Well-being of Local Communities Abroad

Cultural Harmony, Composing a Symphony of Diversity

CNBM continues to deepen cultural exchanges and mutual learning while strengthening its international communication capabilities. By comprehensively enhancing the effectiveness of its global outreach, CNBM is committed to refining and elevating its overseas cultural communication brand. Efforts are focused on amplifying both the "range and volume" of its presence in mainstream international discourse, thereby fostering a positive corporate image abroad.

Smart Use of Resources Open Day—Going Global, Open and Collaborative





Modern Governance Striving for Progress in the Spirit of the Times

Since the 18th National Congress of the Communist Party of China, General Secretary Xi Jinping has delivered a series of important statements on improving the modern enterprise system with Chinese characteristics and accelerating the development of world-class enterprises. He emphasized the need to "speed up the cultivation of a number of world-class enterprises that excel in product quality, brand reputation, innovation leadership, and modern governance". We have always adhered to the mission of "creating a better world with materials", continuously focusing on both ends of the value chain, striving to develop the "Pillar of the Country", and deeply understanding the essential connotations of world-class standards. Unswervingly upholding the "Two Consistencies", we have strengthened Party leadership in improving corporate governance, deepened reforms, and enhanced management, writing a new chapter in high-quality development.

01

Sustainable Development
Goals (SDGs) of United
Nations



Hangzhou Shanya Nanfang Cement



Total assets

RMB **710.436** billion



Annual revenue

RMB **313.025** billion



Total profit

RMB **11.346** billion



Net profit

RMB **8.59** billion

Outstanding Performance

We have consistently prioritized high-quality development as our primary mission, firmly promoting a shift in our growth model from one driven by scale and speed to one focused on quality and efficiency. We are fully committed to strengthening the foundation for high-quality development.

In 2024, demonstrating resilience, we achieved an operating revenue of RMB 313.025 billion, a total profit of RMB 11.346 billion, and a net profit of RMB 8.59 billion. These results have further solidified the foundation for high-quality development, continuously reinforced our profitability, and effectively injected new vitality into the Group's growth.

New Materials Sector Gains "Accelerated Momentum"

We have persistently advanced the industrialization of new materials to serve the main fronts of the national economy. By accelerating the transformation of scientific and technological achievements, we have built a complete industrial chain and propelled the sector toward high-end development, mass production, and global expansion, making new materials increasingly accessible to everyday households. In 2024, we established a hundred-ton-scale T1100 carbon fiber engineering demonstration line and produced the world's first 8.6-generation OLED glass substrate.



Triumph Science & Technology's New Energy Glass Production Base with One Kiln and Eight Lines

Academia Sinica and CNBM (Bengbu) Photoelectric Materials: the world's first 8.6-generation OLED glass substrate successfully rolled off the production line

On December 29, 2024, the world's first 8.6-generation OLED glass substrate, independently developed and produced by the Academia Sinica and CNBM (Bengbu) Photoelectric Materials, successfully rolled off the production line, marking a new era of "Made in China" high-generation OLED glass substrates. Supported by the "14th Five-Year Plan" National Key R&D Program project "Key Technology Development of OLED Display Glass Materials", the project team conducted fundamental research on the structure and performance design of OLED display glass materials and computational simulation of key thermal processes. Through independent innovation, the team developed a complete set of core technology and equipment, leading to the production of the world's first 8.6-generation ultra-thin float glass substrate for OLED displays with fully independent intellectual property rights. This achievement pioneers global technology and products for 8.6-generation OLED glass substrates, playing a significant role in securing China's independent control over the OLED display industry chain and driving high-quality development in the new display industry.



To be the Stable "Ballast Stone" for Basic Building Materials

Basic building materials is a traditional industry and "ballast stone" business of CNBM. CNBM maintain strategic focus on driving progress at "both ends", simultaneously advancing both "deconstruction" and "construction", accelerating the transformation and upgrading of basic building materials. CNBM are speeding up high-end, intelligent, and green development, promoting the transition between old and new growth drivers, and striving to build a modern building materials industry system characterized by completeness, advancedness, and security.

In 2024, CNBM continued to drive the optimization and upgrading of basic building materials. Facing an extremely severe and complex operating environment, CNBM externally focused on stabilizing the ecosystem, restoring volume, and reviving prices, while internally emphasized management to reduce costs and increase efficiency. The comprehensive energy consumption per ton of cement clinker continued to decline, the "green transformation" was steadily advanced, and the foundation for profitability was continuously strengthened. The Tunisia cement acquisition project was successfully signed, and Tianshan Cement achieved overseas sales of RMB 840 million, a year-on-year increase of 4.36%.



Transformation

- Expand profit space through the "Cement+" (ready-mix concrete aggregate) model, expand market space through internationalization, expand sustainable development space through the "dual-carbon" goals, and enhance cross-cycle operational resilience.



Upgrading

- Accelerate high-end, intelligent, and green development through continuous innovation and technological transformation to consolidate leading advantages.

Jiahua Special Cement: Specialty cement helps the traditional basic building materials industry usher in a new lease of life

The low-heat cement produced by Jiahua Special Cement is known as "fever reducer for dams". Characterized by low heat of hydration, high late-age strength, strong durability, high corrosion resistance, and excellent comprehensive temperature control and crack resistance, it ensures the dam body is protected from water erosion and reduces or prevents the formation of temperature-induced cracks in concrete. This cement has been used in projects at more than 10 large hydropower stations, including Xiluodu, Xiangjiaba, and Shengxigou, for structures such as diversion tunnels, spillway tunnels, and plunge pools. In particular, the full-dam application of low-heat cement in the national key projects, the Baihetan and Wudongde hydropower stations, marked a world first in the history of hydropower station construction, breaking the long-held industry belief that "no dam is without cracks" and driving technological progress across the entire sector.



Xinjiang Tianshan Cement: Craftsmanship, premium quality, renowned brand

Xinjiang Tianshan Cement persistently pursues innovation, optimization, and upgrading, striving to build an advanced manufacturing system characterized by high-end, intelligent, and green development. Leveraging the postdoctoral research workstation within its National-level Technology Center, it collaborates with various universities and research institutes. It has successively developed 42 cement varieties across 6 major series, 26 of which filled gaps in the cement product range of the Xinjiang Uygur Autonomous Region. In fields like specialty cement, oil well cement, and black body cement, it has accumulated 430 valid patents. "Tianshan" brand cement and ready-mix concrete have become designated products for key construction projects in Xinjiang, including highways, railways, water conservancy, tunnels, underground mines, and airports. The "Tianshan" trademark has been recognized as a Famous Trademark in Xinjiang and a China Well-Known Trademark. It strides forward on the sustainable development path of "smart use of resources, services for construction".



To Build the "New Brand" for Engineering Technical Services

As a comprehensive building materials service provider with a global outlook, the Group adheres to three principles: "contributing to the local economy, cooperating with local enterprises, and serving the local people". Structured around industrial empowerment, standards export, and model innovation, it is accelerating its globalization, localization, and diversification initiatives. In 2024, the profitability foundation of the Group's engineering technical services segment was continuously strengthened.

Data Overview · 2024

Annual revenue

RMB **73.222** billion

To Construct the "New Model" for Logistics Trade

CNBM has constantly consolidated the new model of foreign trade, explored the establishment of a business model of "building materials and home furnishing chain supermarket+overseas warehouse" with building materials' characteristics, innovatively implemented "standardization +localization" cross-border logistics solutions, invested in the construction of 41 overseas warehouses and building materials supermarket chains in 11 countries such as the United Arab Emirates, Tanzania, South Africa, Papua New Guinea and Vietnam; created the comprehensive cross-border e-commerce service demonstration platform "okorder.com", built a link between upstream and downstream links of the product chain, and driven more than 30,000 kinds of products in China to go global, maintaining the stability of global industrial and supply chains.



Scan the QR Code to Read the People's Daily Article
Commending CNBM's Dubai Overseas Warehouse
for Better Meeting Local Demand



Saima IoT: The "wzcwlw.com" platform ushers in a new era of logistics

Saima IoT Technology (Ningxia) Co., Ltd. (Saima IoT) is implementing a development strategy of industrial digitalization and digital value creation. It adheres to business model innovation to promote win-win outcomes for stakeholders, and drives the scenario-based application of new energy heavy-duty trucks with an innovative spirit and the responsibility befitting a central state-owned enterprise. It is taking the lead in promoting the low-carbon transition of transportation equipment, having launched the "wzcwlw.com" ("I Seek Trucks") Green Kinetic Energy Shared Truck Project. The first batch of 30 electric trucks has been put into operation. This project provides individual drivers with vehicles, energy, and cargo sources, enabling them to participate in logistics and transportation services as joint entrepreneurs with zero initial investment, fostering co-creation and shared benefits for all parties involved and demonstrating corporate social responsibility. The "wzcwlw.com" digital logistics platform deeply cultivates the digital transformation of the manufacturing industry, focusing on five major sectors: building materials, steel, mining, coal chemical, and ports. The platform's digital technology, market-oriented promotion, and commercial operations are continuously being optimized and enhanced. By the end of 2024, the "wzcwlw.com" platform had attracted 22,000 shippers, 84,000 registered transport companies, and 1.856 million registered vehicles.



Precision Management

"Precision Management" is a distinctive management methodology summarized and refined by CNBM through long-term practice. It represents a major achievement and significant outcome of the Group's management innovation. It aims to integrally improve benefits, efficiency, and efficacy through Lean Management, Refined Management, and Refined and Healthy Management of Organization, thereby comprehensively promoting high-quality development.

CNBM diligently benchmarks against world-class enterprises to enhance value creation capabilities, actively implements the Action Plan for Establishing World-Class Demonstration Enterprises, and has achieved significant improvement in key benchmarking indicators, effectively boosting the Group's competitiveness. CNBM deeply carried out the "Increase, Save, Reduce" initiative to enhance market competitiveness, practicing the philosophy that "all costs are controllable and all expenses can be reduced", and promoted the implementation of the "One-Penny Profit Increase Action" among member enterprises. CNBM advanced the breadth and depth of centralized procurement, standardized risk points in the process, and achieved cost savings of RMB 7.4 billion through centralized procurement in 2024. CNBM stabilized operations through risk prevention and control, gained momentum through compliance management, and strived to create a new situation in legal construction. In 2024, the Group conducted and organized participation in 2,741 law-abiding and compliance training sessions, with employees attending 93,770 times; it also conducted and participated in 165 training sessions focused on anti-unfair competition, with employees attending 5,045 times.

Precision Management



Lean Management

Lean Management focuses on "benefits". It establishes a multi-dimensional and diversified operation system through technological innovation, price stabilization, resource integration, and market optimization, ensuring the enterprise generates profits and achieves sustainable profitability in an uncertain environment.



Refined Management

Refined Management focuses on "efficiency". By implementing cost management, investment management, quality management, brand management, responsibility management, and risk management simultaneously, it builds a unified, efficient, meticulous, and continuously improving management system to constantly enhance development quality.



Refined and Healthy Management of Organization

Refined and Healthy Management of Organization focuses on "efficacy". Through strengthening standardized governance, streamlining and strengthening the organization, and implementing flexible authorization, it establishes a standardized, streamlined, vigorous, and dynamic organizational system to achieve robust growth.

CNBM has continuously advanced the streamlining of legal entities and the restructuring of loss-making enterprises. CNBM formulated and issued the Group's 2024-2027 Legal Entity Streamlining Work Plan, completed the reduction of 55 legal entities, and elevated the management level of 73 Grade 6 and below enterprises, thereby promoting a streamlined and efficient organizational structure and workforce. Simultaneously,

CNBM focused on our core responsibilities and businesses to drive integration and optimization. CNBM Graphite signed joint reorganization agreements with Inner Mongol Hengke and Hebei Hengke, while BNBM Coatings jointly reorganized Zhejiang Great Bridge Paint Co., Ltd. These moves effectively optimized resource allocation, stimulated market vitality, and enhanced industrial competitiveness.

Data Overview · 2024



The "wzcwlw.com" business operates in

31 provinces



Serving and supporting upstream and downstream enterprises nearly

2,000 in total



Generating an annual revenue of over

RMB **6** billion



Data Overview · 2024



"Two Funds" reduced by

RMB **4.25** billion



Fund concentration ratio increased by

26.75 percentage



Interest-bearing liabilities with rates above 3.5% reduced by

RMB **22.9** billion



Refined control over processes, procedures, and daily management led to significant cost savings

RMB **1.22** billion



Efforts to revitalize inefficient and idle assets were accelerated, resulting in the disposal of

13 non-operational assets



Disposal Income

RMB **250** billion



Our Achievements



- The Group has 1 achievement that was awarded the Second Prize of the National Enterprise Management Modernization Innovation Achievements Award.
- 2 achievements respectively won the Second Prize and Third Prize of the Quality Technology Award.
- 2 achievements obtained Second Prizes in the Central State-Owned Enterprises QC Group Achievements Presentation Competition.
- The case submitted by the Group, Focusing on Five Values and Promoting Six Measures to Build a World-Class State-owned Capital Investment Company in the Materials Industry, was selected for the 2024 "Outstanding Case Library for New Quality Productive Forces Development" by Xinhuanet and the China Enterprise Reform and Development Society.

China Jushi: Digital management unlocks the innovation code of the future factory

From a workshop-style small factory with a production capacity of less than 200 tons to a fiberglass manufacturer holding over a quarter of the global market share, China Jushi Co., Ltd. has developed into a leading enterprise in the fiberglass industry characterized by technological leadership, refined management, and high-quality growth. As a champion-type core enterprise in the supply chain, China Jushi has built a data chain connecting production manufacturing and business operations in its Future Factory. By building a high-standard industrial internet platform for the sector, it has achieved digital management across the entire product lifecycle and all aspects of production and operation. It promotes the flow of information and data within the ecosystem, enhancing collaborative innovation and application development across the entire fiberglass industry chain, and has blazed a new trail "from producing fiberglass to using fiberglass".



BNBM: Refined management drives cost reduction and efficiency improvement

BNBM adheres to the concept of "Precision Management" and, based on its own characteristics and market conditions, continuously strengthens refined management, vigorously implements the "One Penny" cost-saving plan, and has forged a unique path in applying "Precision Management". BNBM adheres to the principles of efficiency first, profitability first, maintaining specialized expertise in its core business, and insisting on being refined, streamlined, and lean, while continuously advancing green and low-carbon development. The company took the lead in the industry to implement the "dual-carbon" goals, achieving a comprehensive energy consumption of 0.68 tons of standard coal per RMB 10,000 of output value. It will progressively promote clean energy substitution, using natural gas, steam, biomass, etc., to replace coal firing, reducing annual CO₂ emissions by 780,000 tons. Simultaneously, it continuously updates and improves production processes and promotes energy saving and consumption reduction. Its subsidiary Taishan Gypsum optimized the mixer at the forming station and related station equipment in the production workshop, enabling continuous and stable operation, which significantly improved equipment operational rates and product qualification rates. In 2024, BNBM was awarded the title of "Global Gypsum Company of the Year".

Deepening Reform

CNBM thoroughly implemented the spirit of the Third Plenary Session of the 20th Central Committee of the Communist Party of China, focused on key tasks, continuously optimized corporate governance, enhanced governance efficacy, and comprehensively promoted comprehensive and substantial progress in the campaign to deepen and enhance the reform of state-owned enterprises.

Improving Modern Corporate Governance

CNBM adhere to the "Two Consistent Upholds", continuously strengthen Party leadership in improving corporate governance, and accelerate the establishment of a board of directors characterized by "scientific structure, rational decision-making, and efficient operation". CNBM streamlined the "Three Meetings" processes, promoted differentiated and precise exercise of powers and performance of duties by various governance bodies, and organized the revision of the "Three Meetings" lists, resulting in 25 categories and 204 specific items. This further clarified the authority boundaries and decision-making processes of each governance body, strictly implemented compliance review procedures, and consolidated

the foundation for scientific and rational decision-making. CNBM continuously explored and summarized practical experience of the Party Committee in fulfilling its role of "setting the direction, overseeing the overall situation, and ensuring implementation", establishing a corporate governance mechanism characterized by "statutorily defined powers and responsibilities, transparent powers and responsibilities, coordinated functioning, and effective checks and balances". In 2024, through a combination of "seminars + field visits", "thematic + comprehensive", and "headquarters + primary level" approaches, CNBM organized external directors to conduct field research at 20 domestic and international enterprises.

Data Overview · 2024



38 Party Committee meetings



11 Board meetings



16 General Manager's office meetings

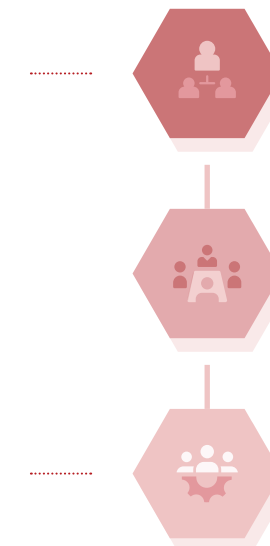


Strengthening Board Construction in Subsidiaries through Tiered and Categorized Approaches

- Guidelines for deepening board construction in subsidiaries were formulated, categorizing subsidiary boards into two types—standardized and compliance-oriented—based on factors such as functional positioning, tier, and scale.
- Classification criteria were further refined using indicators such as operating revenue, total profit, and total assets. This clarified that 43 enterprises have standardized boards, while 344 maintain compliance-oriented boards, with an additional 56 overseas enterprises establishing boards.

Advancing the Rectification of the "Three Meetings" List in Subsidiaries

- A special inspection was conducted on the "Three Meetings" lists of the Group and secondary subsidiaries under the listed company. Work reminder letters were issued for identified issues, guiding all subsidiary levels to promptly evaluate the effectiveness of list implementation and dynamically adjust the "Three Meetings" lists.



Promoting Supervisory Board Reform

- Work measures for deepening supervisory board reform were researched and formulated, clarifying tasks and responsibilities regarding articles of association amendment, function transition, personnel arrangements, industrial and commercial registration changes, and strengthened oversight. The reform of supervisory boards in affiliated listed companies was advanced in accordance with the requirements of the China Securities Regulatory Commission.

Reform Deepening Actions Solidly Advanced

CNBM solidly advanced the state-owned enterprise reform deepening and enhancement action, revised the implementation plan for assessing the reform deepening, and established 18 assessment indicators across four major categories. The assessment results were incorporated into the operational performance evaluations of secondary enterprises. Focusing on the sci-tech innovation incentive mechanism, CNBM researched and formulated operational guidelines for incentivizing the commercialization of scientific and technological achievements, as well as guidelines for equity participation by scientific and technical personnel, thereby strengthening policy support for R&D staff. In 2024, incentives were implemented in 6 sci-tech enterprises, covering over 700 key employees. Among them, listed companies BNBM and Ruitai Technology implemented restricted stock incentive plans, while Triumph Science&Technology implemented a stock option incentive plan.



▲ CNBM Holds 2024 Mid-Year Work Conference & Mid-Term Progress Meeting for Reform Enhancement Action

Our Achievements

- Five reform case studies selected for inclusion in A Thousand Sailing Ships: Case Collection on the Deepening and Enhancement of Grassroots State-Owned Enterprise Reform, compiled by the SASAC.
- Eight achievements recognized at the Third National Competition for Outstanding Practical Results in SOE Deepening Reform.
- Six achievements won the first prize of outstanding achievements in Chinese enterprise reform and development in 2024.
- Equity incentive plans newly approved for three listed companies.

Enhancing vitality and efficiency through system reform

We have actively pushed market-oriented reforms deeper, intensified reform efforts focusing on weak links, and accelerated the establishment of flexible and efficient market-oriented operating mechanisms. In 2024, we vigorously advanced institutional reforms, further improving systems for performance-based personnel adjustments and non-competent staff exits. The proportion of

managerial staff exiting across all levels reached 7.3%; we eliminated 1,135 instances of officials holding concurrent positions; to support strategic emerging industries and scientific/technological innovation talent, we implemented a separate allocation of RMB 1.4 billion for total wage packages, significantly enhancing development vitality and operational efficiency.

Continuously Improving the Closed-Loop Investment Management System

We have continuously refined our closed-loop investment management system, strengthened institutional development for investment matters, and enhanced control over annual investment plans. We convened a group investment work conference to summarize achievements, experience, problems, and measures related to investment activities as a state capital investment company, and to plan key investment tasks for the next phase. We clarified the construction plan for the CNBM Aviation Composite Materials R&D and Manufacturing Base, aligning with national strategy and supporting the large aircraft program. We implemented major

new materials projects such as CNBM Graphite New Material's reorganization of Inner Mongolia Hengke. We advanced investment projects including Sinoma Cement's Pangea equity investment and Sinoma Energy Saving's low-carbon green energy project for the construction of the Navoi Fertilizer Plant in Uzbekistan, accelerating the internationalization of mature businesses. CNBM Co., Ltd. initiated a cash tender offer to repurchase and cancel some of its H-shares and increase holdings in certain A-share listed companies, boosting confidence in the capital market.

Guidance of Party Building

We have deeply grasped General Secretary Xi Jinping's important thoughts on Party building and self-revolution, strengthened Party leadership, and become more resolute and conscious in practicing the "Two Upholds". Comprehensive and strict governance over the Party has advanced deeper. Inspection rectification has been carried out strictly and practically. The grassroots foundation of Party building has been continuously consolidated. The construction of cadre and talent teams has been continuously strengthened. And our corporate culture, image, and brand have become more distinct.

Ideological and Political Construction

We have comprehensively strengthened political leadership and ideological cultivation, improved the implementation mechanism for the "Two Upholds", revised the implementation measures for the "First Topic" system at the Group Party Committee meetings, promoting the "First Topic" to become routine and specific, ensuring that General Secretary Xi Jinping's important instructions and directives take root within the Group. We have maintained high standards for strengthening innovative

theoretical education, revised the Party Committee Center Group study system, conducted nine study and discussion sessions, established and tracked the implementation of 33 items on a task list, formulated a plan for studying and implementing the Third Plenary Session of the 20th CPC Central Committee, promoted full coverage of study among cadres and Party members, and provided ideological impetus for the Group's high-quality development.

Our Achievements

- The policy research project titled "Research on SOE Party Organizations Leading International Communication Capacity Building from a Cross-Cultural Integration Perspective—An Analysis Based on SINOMA's 'Shanrong' Work System and Practice" won the Third Prize among central enterprises.
- Six signed articles, including Demonstrating SOEs' Role in Leading Industrial Innovation through Scientific and Technological Innovation, Stimulating Innovation Vitality to Support the Building of a Strong Materials Nation, Advancing Reform in Depth with "Four Breakthroughs", Fulfilling the Mission of "Creating a Better World with Materials" to Promote Innovative Development of Global Industrial and Supply Chains, Leading Industrial Innovation with Scientific and Technological Innovation and Actively Developing New Quality Productive Forces, and Accelerating the Development of New Quality Productive Forces to Build a Modern Building Materials Industry System, were published on the front page of Economic Daily and in the CPC Central Publicity Department's journal Party Building.
- The second batch of 100 "Shansi" policy research projects completed evaluation.
- The "Shanyan" Propaganda Team's theoretical micro-video won an Excellent Award from the SASAC.

Data Overview · 2024

Completion Rate of Group's Reform Enhancement Action Ledger

84 % (2023—2025)

Completion Rate of Demonstration Creation Ledger

86 % (2023—2025)

Completion Rate of Value Creation Ledger

100 % (2022—2024)



▲ Report meeting on studying and implementing the spirit of the Third Plenary Session of the 20th CPC Central Committee held by CNBM

Strengthening the
Grassroots Foundation

We have comprehensively strengthened standardized construction of grassroots Party building and advanced the "Seven Key Actions" project for grassroots Party building. We were invited by the Education and Training Center for Officials and Entrepreneurs of SASAC to record specialized courses on standardization and normalization of grassroots Party building. We actively standardized organizational construction: the organizational structures of nine Party organizations were adjusted and established, 547 grassroots Party organizations completed their scheduled leadership transitions, and all 29,153 Party members across all levels completed the central enterprise

joint learning program. We distilled the "1364 Work Method" for integrating Party building with business operations, released "Top Ten" and outstanding cases of integration, and categorized the implementation of leadership and guidance responsibilities for Party building in mixed-ownership reform enterprises. We delivered a presentation on overseas Party building work at the Central Enterprises Leadership Team Ideological and Political Construction Symposium. Additionally, we formed 142 youth task forces to conduct youth innovation and efficiency activities, effectively promoting the integration of Party building and business operations.

Our Achievements

- Seven collectives and individuals were awarded the title of "Two Exemplars and One Advanced" among central enterprises.
- One individual was shortlisted for the first batch of the national "Cultural Talents" program.

An All-out Effort to Enforce
Strict Party Discipline

We have persisted in implementing the requirements of an all-out effort to enforce strict Party discipline. Focusing on "strengthening Party building, strict supervision, and sound governance", we proposed supervisory opinions on improving the Group's comprehensive and strict governance system and revised the List of Primary Responsibilities for the Group Party Committee to Fully Implement Comprehensive and Strict Governance over the Party. We held three warning education conferences to use cases as mirrors and enhance educational deterrence. We conducted high-quality Party discipline education, with our practices featured three times in SASAC's bulletin. We actively carried out special rectification campaigns targeting trade financing, overseas corruption, and violations of the central government's Eight-point Regulation. Meanwhile, we strictly and thoroughly advanced inspection rectification, adhering to treating both symptoms and root causes and promoting coordinated efforts to ensure all rectification issues are completely resolved.

Data Overview · 2024

Disciplinary inspection bodies at all levels utilized the "Four Forms" of supervision and discipline enforcement to address various problem leads

430



Implemented organizational measures

50



Imposed Party discipline and administrative sanctions

127



Organized and conducted anti-corruption (commercial bribery) training

8,951



Employees participated in anti-corruption (commercial bribery) training

307,425



Corruption (commercial bribery) cases entering legal proceedings

0



◆ CNBM held the 2024 Annual Evaluation and Assessment Meeting for Secretaries of Party Organizations of Group and Shareholding Member Enterprises on their performance in Party building



◆ CNBM organized a visit to the Beijing Municipal Education Base for Comprehensive and Strict Governance over the Party



Innovation Leadership Creating New Value for a Sustainable Future

General Secretary Xi Jinping emphasized that "scientific and technological innovation is the core element in developing new quality productive forces" and that "we must work harder on leading industrial innovation with scientific and technological innovation". CNBM has thoroughly implemented the Party and state's various deployments on scientific and technological innovation, implemented the spirit of the Central Enterprise Scientific and Technological Innovation Conference, consciously shouldered its important mission as a national strategic scientific and technological force, and placed scientific and technological innovation at the top of its agenda. We are better fulfilling the role of enterprises as innovation subjects, driving industrial innovation through technological advancement, focusing on bridging the "last mile" in the transformation of scientific and technological achievements, serving the "Treasure of the Country" with the "Pillar of the Country", and providing stronger support for building a strong science and technology nation and a strong materials nation.

02

Sustainable Development
Goals (SDGs) of United
Nations



China Jushi's intelligent manufacturing base



Revenue from Scientific and
Technological Innovation

RMB **6.59** billion



Total Valid Patents

28,600



R&D Intensity

3.75 %



Provincial and Ministerial-Level
Science and Technology

81

Innovation Ecosystem

CNBM adheres to innovation-driven development, focuses on creating the "Pillar of the Country", strengthens innovation management, deepens reform of the science and technology system, builds innovation platforms, cultivates innovative talent, improves the efficiency of scientific and technological innovation, stimulates corporate innovation vitality, and fosters a favorable innovation ecosystem.

Data Overview · 2024

Revenue from Scientific and Technological Innovation

RMB **6.59** billion

R&D Intensity

3.75 %

Strengthening Innovation Management

CNBM strengthens innovation management, optimizes the top-level design of scientific and technological innovation, improves the mechanisms and systems for innovation, and has compiled and released the CNBM Guiding Opinions on Joint Innovation and Scientific and Technological

Achievement Transformation. Oriented towards innovation and creation, we actively delegate authority, fully reflect the value of knowledge, technology, and other innovative elements, and flexibly implement various forms of medium- and long-term incentives to continuously unleash corporate innovation vitality.

"Two-Lines, Six-Pillar" Integrated Innovation Model

- Following the Group's "Two-Lines, Six-Pillar" innovation model, focusing on the two main pathways of "transforming technology into patents, patents into standards, and standards into engineering", and "transforming technology into products, products into market offerings, and market offerings into economic returns", with "priority to benefits and efficiency" serving as the key performance measurement criteria.

Successful Issuance of CNBM's 2024 First Series Medium-Term Notes (Sci-Tech Innovation Notes)

On August 8, 2024, CNBM successfully issued its 2024 First Series Medium-Term Notes (Sci-Tech Innovation Notes), with a total issuance of RMB 2 billion. The interest rates were 2.07% for the 5-year tranche and 2.37% for the 10-year tranche.

Cultivating Innovative Talent

CNBM regards the cultivation of scientific and technological talent as a long-term strategic task. We improve innovation support policies, deepen the industry-university-research collaborative talent development mechanism, refine talent incentive mechanisms, establish a precise, differentiated, and long-cycle scientific and technological innovation evaluation system, strengthen the flexible introduction of high-end talent through various methods, and meticulously implement fault tolerance and exemption mechanisms. This allows researchers to focus wholeheartedly on their work and ensures the continuous advancement of innovative development.

Improving the Scientific and Technological Talent Development System

- We have established a categorized and tiered scientific and technological talent pool: a top-tier talent pool of 12 individuals (including 2 formally selected into the Central Enterprise Top-Tier Scientific and Technological Talent program), a pool of 164 leading scientific and technological talents, and a pool of 810 young scientific and technological talents.
- We formulated the implementation plan for the "One-Hundred-Thousand" scientific and technological talent development project. By categorizing into five fields, we mapped out the distribution of 37 key strategic emerging industry projects and developed a talent map for the Group's strategic emerging industries, covering over 430 individuals.

Innovative Scientific and Technological Talent Cultivation

- We actively implemented the pilot work of the Organization Department of the CPC Central Committee's talent program, proactively connected with universities, expanded training directions in AI, and added three new cooperative universities: Shandong University, Dalian University of Technology, and University of Science and Technology Beijing.
- We organized 10 meetings, including special research seminars with the Talent Bureau of the Organization Department of the CPC Central Committee and the work conference for 2023 engineering master's and doctoral students entering enterprises for practical training. We also conducted the "CNBM General Materials Class" summer camp.
- We held the first training program for leading scientific and technological talents, inviting academicians to lecture and organizing internal discussions, with over 40 participants in total.
- The "Glass R&D and Industrialization Team" was awarded the title of "National Outstanding Engineer Team".

Data Overview · 2024

Academician

1



Experts in professional technical and high-skilled talent recognized as enjoying the State Council's Special Government Allowance

25

Scientific and Technological R&D Personnel

38,000



Academician Workstation

9



CNBM Holds Special Seminar for Leading Scientific and Technological Talents

On December 1, 2024, the CNBM Special Seminar for Leading Scientific and Technological Talents successfully concluded. The training was structured into three modules: "Assessing Policy and Situation", "Enhancing Innovation Capabilities", and "Improving Comprehensive Competence". It featured an "Academician Lecture Hall" to help participants solidify their political literacy, deepen theoretical foundations, and broaden innovation horizons. The seminar held internal exchanges on six themes: "Low-Carbon Development", "Carbon Fiber Composite Materials Industry Chain", "Technological Innovation and Breakthroughs", "Industrialization Technology and Achievement Transformation", "Deep Integration of Technological and Industrial Innovation", and "Building Efficient Organizational Innovation Capability". Multiple group discussions were organized, effectively enhancing internal collaboration and improving training quality.



On December 4, 2024, CNBM held a conference to promote the spirit of the Central Enterprise Scientific and Technological Innovation Conference and the 2024 Annual Meeting of the CNBM Science and Technology Committee

Achievements of Technological Innovation

Advancing Scientific Research

CNBM focuses on the global science and technology frontier, the main battlefield of the economy, major national needs, and the health of the people. We have increased investment in basic research, implemented the "open competition mechanism", and are fully committed to tackling key core technologies. We strive to better play a leading and driving role in new material breakthroughs, incubation of new business forms, and cultivation of new industries. We promptly apply scientific and technological innovation achievements to the transformation and upgrading of the basic building materials industry, the nurturing of strategic emerging industries, and the layout of future industries. High-quality innovation achievements are being produced at an accelerated pace, transforming scientific and technological innovation, the "key variable", into the "maximum increment" for the Group's high-quality development.

In 2024, the Group resolved 43 major issues in "bottleneck", "shortcoming", and "foundation-strengthening" areas, including 11 in key links, effectively enhancing the resilience of the industrial chain. We achieved 5 major breakthroughs in basic materials, basic equipment, and basic processes, produced 2 first-of-a-kind results, and achieved 3 key equipment localization applications, effectively ensuring the security of the industrial chain.

CNBM persists in driving industrial innovation through scientific and technological innovation. We have successfully overcome a series of "bottleneck" technologies, including carbon fiber composites for large aircraft, large-size infrared optical materials, and high-efficiency power-generating glass. Numerous new materials have been applied

in national "major projects" such as the Long March and Shenzhou spacecraft series. Multiple scientific and technological achievements have served and safeguarded major national engineering projects, continuously scaling new heights and demonstrating new momentum in the Group's scientific and technological innovation.

Focusing on the Pillar of the Country, Building an Original Technology Source

- The Original Technology Source for Inorganic Non-Metallic Materials passed its mid-term evaluation.
- All seven key tasks of the "1025" Project Phase II were completed ahead of schedule and exceeded targets.
- 5 new achievements were added, bringing the cumulative total to 17 achievements included in SASAC's Recommended Directory of Scientific and Technological Innovation Achievements of Central Enterprises.
- 56 "open competition mechanism" innovation projects were launched. The first phase of tasks has been fully completed. We have built 18 pilot lines or platforms (including hydrogen energy utilization, oxy-fuel combustion, and carbon-capture building materials), 47 demonstration lines, and over 50 demonstration projects.
- Fully launched 30 projects for the second phase of the Group's "open competition mechanism", focusing on three categories: application and demonstration projects, projects aiming for world-class advancement, and projects focused on standard leadership and policy research.
- Advanced research on cutting-edge technologies such as super-hard crystal materials and cement suspension calcination, generating 701 core invention patents.
- Accelerated the technological maturation and engineering scale-up of innovative achievements, increasing the number of manufacturing champions to 21.
- The project on Key Technologies and Equipment for High-Generation Float Glass Substrates won the Second Prize of the National Technology Invention Award.



▲ Technicians at the Taishan Fiberglass Inc. ultra-thin fabric workshop conducting new product research and testing

Accelerating Achievement Transformation, Speeding Up Integration of Innovation and Industrial Chains

The world's largest single-line spodumene extraction production line from spodumene ore officially commenced operations



On December 2024, the spodumene roasting process production line, designed by Beijing Triumph and supplying core equipment, officially went into operation in Xuanhan County, Sichuan Province. As the world's largest single-line spodumene extraction production line from spodumene ore, the successful commissioning of this project not only highlights Beijing Triumph's outstanding achievements in spodumene roasting technology but also signifies a historically significant leap forward for China in the development and utilization of lithium resources. It fully demonstrates the exceptional innovative capacity and strong technical foundation of Chinese enterprises in the field of high-end equipment manufacturing.

The world's first 8.6th-generation OLED glass substrate was successfully produced, with new materials enabling high-precision communication



On December 29, 2024, the world's first 8.6-generation OLED glass substrate product, independently developed and manufactured by CNBM New Glass Materials Research Institute Group Co., Ltd. and CNBM (Bengbu) Photoelectric Materials Co., Ltd., successfully rolled off the production line in Bengbu, Anhui, marking a new era of "Made in China" for high-generation OLED glass substrates.

The world's largest ultra-clear single-piece glass was successfully produced



On July 12, 2024, Triumph Technology Yaohua Zhonglian Glass successfully produced and rolled off the line an ultra-clear glass sheet measuring 15 mm × 3.66 m × 24 m in a single attempt. This breakthrough overcame key technical challenges in defect control, annealing quality, complete edge removal, and lifting, storage, and transportation. The achievement set a new world record in the manufacturing of ultra-clear glass sheets: each pane covers 87.8 square meters and weighs 3.3 tons. It marks another successful practice by Zhonglian Glass in adjusting its product portfolio and developing new products.

Contributed to the launch of China's first commercial hydrogen fuel cell-powered sightseeing ship



In June 2024, China's first commercial hydrogen fuel cell-powered sightseeing vessel, Xihai Xinyuan No. 1, was officially delivered in Jiujiang, Jiangxi Province. The vessel is equipped with 35MPa-320L Type III marine hydrogen storage cylinders supplied by Sinoma Science & Technology (Suzhou) Co., Ltd. The applications of these hydrogen storage cylinders are not limited to this scenario; they also extend to hydrogen-powered vehicles, hydrogen-powered drones, and backup power systems for gas storage and transportation, among other fields.

Empowered the world's first commercial carbon-fiber subway train



On June 26, 2024, the world's first carbon-fiber subway train designed for commercial operation—CETROVO 1.0 Carbon Star Express—was officially unveiled. With its advanced RTM (Resin Transfer Molding) technology, the Harbin FRP Institute Co., Ltd., under China Building Materials Academy provided solid technical support for the successful operation of the train. Meanwhile, Zhongfu Shenying's T700-grade carbon fiber was adopted as the main material for the crossbeams of the bogie load-bearing structure. Leveraging new technologies and materials, the project has empowered the train to achieve significant weight reduction, jointly driving a new wave of green upgrades in subway transportation.

Supported the full opening of the Fengyi Bridge, the world's largest carbon-fiber cable-stayed bridge



In May 2024, the Fengyi Bridge, supported by Zhongfu Carbon Fiber Core Cable Technology Co., Ltd., was fully opened to traffic. The bridge adopts the world's largest carbon-fiber cable system, with each bundle consisting of 253 carbon rods—7 millimeters in diameter and with a guaranteed strength of 2,800 MPa—forming a cable with an anchoring capacity of up to 2,000 tons. The application of this technology not only demonstrates China's advanced expertise and capabilities in bridge construction, but also provides new ideas and directions for bridge engineering worldwide.

A variety of new material products have contributed to Shenzhou-18, Shenzhou-19, Chang'e-6, and the Communication Technology Experiment Satellite-13 missions



The Harbin Glass Fiber Research Institute independently developed and manufactured a large-size, multi-opening, thin-walled, stiffened truncated cone as the primary load-bearing component of the propulsion subsystem, making significant contributions to the Shenzhou series of crewed spacecraft.



The Horological Institute provided its self-developed 362D time controller, which was applied in the return capsule of Shenzhou-19.



Meanwhile, the Quartz Institute of China Building Materials Academy (Beijing Branch) developed low-permeability, radiation-resistant, high-purity quartz glass, which was applied for the first time in the laser gyroscope of the Chang'e-6 ascent module.

Advancing Joint
Innovation

China National Building Material Group Co., Ltd. (CNBM) remains firmly committed to the path of joint innovation. Guided by major national strategic needs, the Group has established and improved a dual-driven “R&D + Investment” system that integrates industry and research. It continues to deepen innovation collaboration with central SOEs, local governments, and universities, pooling innovation resources, building innovation platforms, undertaking joint research, and fostering element sharing, risk sharing, and benefit sharing. These efforts aim to accelerate the transformation of scientific and technological achievements from samples into products, and from products into industries, thereby serving high-quality development.

In 2024, CNBM carried out industry-university-research cooperation with institutions such as Tsinghua University, Tongji University, and Wuhan University of Technology, creating a mutually

beneficial industrial ecosystem and deepening the integration of innovation and industrial chains to build an open collaborative innovation community. With a focus on green and low-carbon technologies, major core and high-end

equipment, and the application for key national research projects, the Group is tackling critical technologies while advancing engineering industrialization, technology development, and demonstration applications.

Action · 2024



- Jointly with the National Natural Science Foundation of China, it established the Enterprise Innovation Joint Development Fund.
- Together with China Minmetals, China State Construction, Tsinghua University, the Institute of Process Engineering of the Chinese Academy of Sciences, and 10 other organizations, it founded the Green and Low-Carbon Building Materials Innovation Consortium.
- Participated in the establishment of three central SOE innovation consortia (third batch), focusing on electronic manufacturing equipment, special fibers and composites, and green hydrogen production, storage, and transportation.
- Co-established the Nigeria-China-Africa Low-Carbon Building Materials Joint Laboratory with Ahmadu Bello University in Nigeria.
- Organized and advanced the restructuring and integration of national key laboratories, and released the Guidelines for the Laboratory Open Fund.
- Officially launched the National Glass-Based Functional Materials Technology Innovation Center, convened its first council, and issued its development fund guidelines.
- Completed the construction of a dual-carbon public service platform for the key raw materials industry.
- Approved by the Ministry of Industry and Information Technology (MIIT) as the lead enterprise ("chain master") for four key manufacturing industry chains under the "Forging Long Boards" initiative, taking the lead in the development of the photovoltaic, wind power, and hydrogen storage industry chains.
- Approved by MIIT to host one of the sixth batch of Industrial Technology Foundation Public Service Platforms.



On November 28, 2024, under the guidance of the SASAC, CNBM hosted the Co-chain Action of the Modern Industrial Chain for Low-Carbon Inorganic Non-metallic Materials and the Inauguration Ceremony of the Green and Low-Carbon Building Materials Innovation Consortium in Beijing, with Tianshan Material Co., Ltd. as the organizer.

Contributed to policy formulation and national development

Responsibility-oriented

- Led SASAC's Research on the Green and Low-Carbon Technology System and Layout of Central SOEs (Building Materials Segment).
- Provided support to MIIT's National Key R&D Program on New Materials in the field of high-performance fibers and composites. Three subsidiaries were approved as product responsibility units under major national science and technology projects.
- Participated in the Ministry of Housing and Urban-Rural Development (MOHURD) and the National Natural Science Foundation of China (NSFC) initiatives, contributing to the launch proposals, implementation plans, and guidelines for major projects such as Urban Sustainable Development and the Dual-Carbon program.
- Led the MOHURD "15th Five-Year" special project on Research and Industrialization of Key Technologies and Equipment for Future Housing.
- Supported the People's Bank of China in drafting the Catalogue of Transition Finance-Supported Economic Activities (Building Materials Sector). Completed MIIT reports on the independent controllability of high-purity quartz and its products, advanced ceramics, and graphite materials.
- Led the Chinese Academy of Engineering's major consulting project, Research on Major Carbon Neutrality Issues in China's Building Materials Industry under New Circumstances.
- Participated in the Central SOEs Think Tank Alliance's key research project, Research on Building an Open and Innovative Ecosystem for Central SOEs with Global Competitiveness, which was rated Excellent.

Building innovation platforms and pooling innovation resources

National Enterprise Technology Center (1 headquarters + 18 branches)



Basic building materials

Two national enterprise technology centers/sub-centers in the field of special cement



New Materials

Eleven national enterprise technology centers/sub-centers in the fields of high-performance fiberglass, carbon fiber, wind turbine blades, composites, information display glass, and new building materials



Engineering and technical services

Five national enterprise technology centers/sub-centers in the fields of cement equipment, energy-saving equipment, and light industry equipment

National-Level Materials Research Platforms

- 19 national enterprise technology centers
- 26 national enterprise technology centers
- 3 national key laboratories
- 1 national manufacturing innovation center
- 1 national technology innovation center
- 8 national engineering (technology) research centers
- 4 overseas joint laboratories
- 2 national new materials evaluation industry centers
- 1 national dual-carbon public service platform for the key raw materials industry
- 17 national standardization committees and 34 national quality inspection centers

Sinoma Science & Technology and Geely Establish Joint Innovation Lab for Advanced Automotive Composites

In October 2024, Sinoma Science & Technology and Geely Automobile Research Institute officially inaugurated the Joint Innovation Laboratory for Advanced Automotive Composites. The establishment of the Sinomatech-Geely Automobile Joint Innovation Laboratory marks a new stage of strategic upgrade and accelerated development in their cooperation on advanced composites for new energy vehicles, giving strong impetus to technological breakthroughs and practical innovation in China's NEV composite materials sector.

The inauguration of the Joint Innovation Laboratory is a landmark achievement since the establishment of the automotive composites project team. The Joint Innovation Laboratory for Advanced Automotive Composites will focus on three key areas: the application of large-tow carbon fiber composites in automotive components, the use of recyclable thermoplastic composites in new energy vehicles, and the application of 1000 MPa pultruded composites. Through technological integration, the lab aims to drive collaborative industrial development.

Digital Transformation

CNBM is approaching digital transformation with a mindset of reform, treating it as a "must-answer question". The Group has articulated the vision of "Digital-Led Material Innovation" and anchored its "1254" digital transformation blueprint, coordinating the advancement of three major digital systems alongside the construction of a digital infrastructure base. A Digital Management Center was established, designating digitalization as the "No. 1 Project" for the cement business. Centered on the principle of "Intelligent Reform and Digital Transformation", CNBM has formulated intelligent factory standards, built specialized digital technology subsidiaries, explored digital value-added pathways, and fully promoted industrial digital transformation and digital value enhancement, accelerating the deep integration of the digital economy with the real economy.

In 2024, CNBM's "Three Systems" architecture was initially completed, and the "One Cloud, One Network" platform officially went live. The capitalization of data assets accelerated, accompanied by rapid growth in digital economy applications such as "I Find Trucks" and "JuCaiTong". The Group's data center received National Standard A-level certification, the highest rating in China. The Intelligent Safety Production Management System achieved full operational coverage across all production enterprises. Standards were completed for cement and glass intelligent factories, as well as intelligent non-metallic mineral mines. An AI application guideline was issued, and data modeling value-added projects were implemented. Self-developed algorithm models optimized parameters and generated data value in 12 scenarios—including batching, energy consumption, and logistics—across 66 cement enterprises. Furthermore, the Cement Waste Heat Power Big Data Platform was selected as a pilot demonstration project by the MIIT.

Leading Industry Upgrades

CNBM carries the mission of advancing the industry by continuously promoting advanced management concepts, participating in standard-setting, respecting and protecting intellectual property, and driving industry transformation and upgrading, thereby contributing to the era of high-quality industry development.

Participation in Standard-Setting

CNBM actively participates in both international and domestic standard-setting. Leveraging its deep industry expertise and cutting-edge technological achievements, the Group continuously contributes to the high-quality development of the building materials sector. In areas such as fiberglass, carbon fiber, and ceramics testing and inspection, CNBM has enhanced China's voice in international standardization. In 2024, the Group participated in the formulation and revision of national standards, including Carbon Emission Accounting and Reporting Requirements for Fiberglass and Fiberglass Products Manufacturers, Chopped Strand Glass Fiber, and Determination of Hairiness of Fiberglass Roving without Twist, continuously strengthening its leadership in industrial innovation.



- The CNBM Environmental Protection Institute contributed to the industry standard High-Temperature Bag Filter (JB/T 14856-2023), which provides a unified evaluation framework for existing high-temperature flue gas dust removal equipment of varying quality, offering important guidance for deep emission reductions of high-temperature flue gas pollutants in China.
- The North Glass Institute (Beibo Institute) led the revision of the international standard ISO 22314:2023, Plastics—Glass-Fiber-Reinforced Products—Determination of Fibre Length, which has been officially published. This standard provides technical support for the global application and development of SMC products, promotes the internationalization of the technology, and demonstrates China's active role in the SMC field, contributing Chinese expertise to global composite material standardization.
- The Qinhuangdao Institute, serving as China's technical counterpart for ISO/TC 160, took the lead in organizing the 2024 annual meeting of the ISO Technical Committee on Glass for Buildings (ISO/TC 160).
- China Building Materials Academy led the Chinese delegation to participate in the 32nd plenary session of ISO/TC 189.

Hunan Linli Nanfang New Materials: Establishing a Benchmark "5G+ Smart Mine Cloud Platform"

The Hunan Provincial Department of Industry and Information Technology released the sixth batch of provincial-level industrial internet platforms', with Hunan Linli Nanfang New Materials 5G+ Smart Mine Cloud Platform successfully selected, becoming the only mining enterprise in the province to be included. Targeting emerging smart mining applications and scalable industry solutions, Hunan Linli Nanfang New Materials has deeply integrated next-generation information technologies—such as 5G, IoT, cloud computing, and artificial intelligence—into enterprise production and manufacturing. This has established a provincial benchmark "5G+ Smart Mine Cloud Platform", further enhancing the efficiency of the full lifecycle of mining manufacturing and achieving green, safe, intelligent, and high-efficiency production.



▲ Saima IoT was recognized as a "2024 Outstanding Digitalization Case in China's Logistics and Supply Chain".

Data Overview · 2024

Total Valid Patents

28,600



Won China Patent Awards

23



Including invention patents

8,167



Including Gold Awards

3



International patents

950



Including Silver Awards

2





Excellence in Products Advancing Green Development to Protect Beautiful Landscapes

The Third Plenary Session of the 20th Central Committee of the Communist Party of China has laid out a comprehensive plan for green transformation, calling for the acceleration of a fully green economic and social development, the improvement of the ecological and environmental governance system, the promotion of ecological priority, resource-efficient, and green low-carbon development, and the advancement of harmonious coexistence between humans and nature. CNBM fully implements Xi Jinping's thought on ecological civilization. Guided by the development philosophy that "lucid waters and lush mountains are invaluable assets" and adhering to its mission of "creating a better world with materials", the Group advances ecological priority, resource-efficient, and green low-carbon development, steadily contributes to the achievement of dual-carbon goals, promotes harmony between industry and nature, and reinforces the green foundation of high-quality development.

03

Sustainable Development
Goals (SDGs) of United
Nations



Triumph Technology High-Performance Glass Production Line



Investment in energy-saving and
environmental protection

RMB **4.771** billion

National-level green factories

133

CO₂ emissions per 10,000 yuan
of output (revenue): Year-on-
year reduction

14.46 %

National-level green mines

40

Green Production

We firmly uphold the philosophy that "Green and Low-Carbon is the Future", actively integrating green and low-carbon elements into production. By coupling economic, social, and environmental benefits, we aim to multiply enterprise value.

Green Material Selection

Guided by the principle of "smart use of resources, services for construction", we prioritize technological innovation and, while ensuring product quality, maximize the use of industrial by-products as raw materials to reduce the consumption of natural mineral resources. In cement production, we increase the proportion of industrial waste such as slag, steel slag,

and fly ash to replace natural mineral raw materials. Regarding energy selection, we explore the use of non-fossil energy sources such as solar and biomass, actively promote waste heat power generation, and safely utilize cement kiln residues, providing clean energy for production while disposing of waste in an environmentally friendly manner.



Optimizing Energy Structure

- CNBM vigorously promotes the application of new energy. In 2024, electricity generated from green energy increased by 105.66% year-on-year. The number of "Photovoltaic+" factories rose to 116, with installed capacity and power generation increasing by 81.53% and 40.31%, respectively.
- The Group has accelerated its alternative fuel strategy, with 89 alternative fuel projects put into operation in 2024, cumulatively replacing 959,400 tons of standard coal (including coal gangue) with alternative fuels.



Strengthening Energy and Water Recycling

- CNBM continuously improves energy recycling efficiency. In cement and glass plants with suitable conditions, waste heat power generation facilities now cover 100% of applicable sites, with an installed capacity of approximately 2,000 MW and annual power generation exceeding 6 billion kWh.
- Water management systems have been further optimized. Cooling water in key industries such as cement and glass is fully recycled, with 100% of production water reused where process requirements allow. Overall water reuse rate reached 92.2%.



Promoting solid waste utilization

- Through technological innovation in resource recovery, we are building a virtuous cycle between solid waste treatment and industrial development. In the cement sector, with the exception of specialty cements, nearly all gypsum raw materials used in production come from industrial by-product gypsum. In 2024, we processed over 93.4 million tons of industrial waste such as slag and smelting residues.



Greener Processes

- We continuously update our comprehensive roadmap of green and low-carbon technologies for the inorganic non-metallic materials industry. This includes detailed industrial chain blueprints for eight sub-sectors: cement, glass, fiberglass, carbon fiber, refractory materials, plasterboards, calcium silicate boards, and non-metallic mineral products.
- We have established 133 national-level green factories and 40 national-level green mines, while upgrading cement kilns to co-process industrial solid waste, medical waste, and municipal waste at high temperatures. Dozens of disposal lines have been built nationwide, serving as essential urban infrastructure to safeguard ecosystems and public health.

Conserving Energy and Resources

- Through intelligent upgrades and system optimization, we are building a new, fully integrated system for energy-saving and consumption reduction. In 2024, comprehensive energy consumption per RMB 10,000 of output value decreased by 10.07% year-on-year, while first-level energy-efficient clinker capacity reached 34.5%. Comprehensive energy consumption per ton of clinker declined by 2.52% year-on-year.

Reinforcing Pollution Prevention and Control

- We are promoting the co-processing of municipal and industrial waste in cement kilns to enhance resource utilization efficiency.
- Guided by the principles of targeted, science-based, and law-based pollution control, we are advancing integrated governance of water and air pollution through independent innovation and carefully executed environmental upgrade projects.

Advancing the "Dual-Carbon" Goals

- The world's first zero-carbon fiberglass manufacturing base has been commissioned, while the installed capacity of new energy increased by 155.36% year-on-year.
- In 2024, the Group completed pilot testing of a new type of low-carbon cement, achieving over 25% carbon reduction, with carbon emission intensity per ton of clinker declining by 2.96% year-on-year.
- The 200,000-ton/year CO₂ oxy-fuel combustion enrichment and purification demonstration project at Qingzhou Zhonglian Cement Co., Ltd., a subsidiary of Xinjiang Tianshan Cement Co., Ltd. passed expert evaluation and was recognized as reaching an international leading standard.
- The "Dual Carbon" Public Service Platform for the raw materials industry, overseen by the Ministry of Industry and Information Technology, successfully passed inspection, while the ecological and environmental supervision platform was deployed across all levels.
- Aksu Tianshan Duolang Cement Co., Ltd. received the first carbon management system certification in the cement industry, and China Jushi Co., Ltd. obtained the first carbon management system certification in the fiberglass industry.

Data Overview · 2024

The total comprehensive energy consumption decreased year-on-year

14.84 %

Emissions of nitrogen oxides, sulfur dioxide, and dust decreased year-on-year respectively

21.80 %

17 %

29.60 %

Carbon dioxide emissions per 10,000 yuan of output value decreased year-on-year

14.46 %



▲ Wuzhong Saima New Type Building Materials Co., Ltd.'s "Photovoltaic + Smart Factory" project further enhanced the green and low-carbon transformation of the industrial park, adding new momentum to sustainable development.

Green Manufacturing

We adhere to the philosophy of "smart use of resources, services for construction", advancing pollution reduction, carbon reduction, and risk prevention in tandem. By applying a systems-based approach to pollution control, we are actively building a green manufacturing framework and steadily upgrading operations for energy efficiency, low carbon, and sustainability, so as to continuously reduce the intensity and total amount of pollutants and carbon emissions. In 2024, we conducted on-site carbon emission audits across 62 cement plants and 8 plasterboard facilities, promoted member companies' participation in voluntary emission reduction trading, and facilitated cumulative transactions of more than 5 million tons of carbon allowances nationwide.

Beijing New Building Material (Group) Co., Ltd. (BNBM): Driving green transformation and building a sustainable industrial chain

BNBM upholds the mission of "Green Technology, Quality Living". The company is committed to advancing the green transformation of construction, urban development, and living environments, with a strong focus on developing a circular economy. It actively promotes energy-saving building technologies and prefabricated construction solutions, creating a green building industry chain that covers the entire lifecycle—from raw material extraction, manufacturing, product design, and construction, to application and recycling. At the raw material stage, BNBM innovatively uses 100% industrial by-product gypsum to manufacture paper-faced plasterboards, effectively recycling industrial waste while conserving natural mineral resources. In the production phase, the company implements advanced pollution control measures, applying "near-zero emission" technologies to ensure environmental performance. Lightweight product design further reduces energy consumption during transportation. In application, BNBM offers customers a portfolio of green building solutions, including the "Whole-house Prefabrication" interior system, the Jinbang Board exterior wall system integrating decoration, insulation, and energy efficiency, as well as waterproofing and coating-mortar systems. Importantly, plasterboard systems can be recycled after building demolition, significantly reducing construction waste and fostering a circular ecosystem.

Green Products

We focus on the full lifecycle performance of our products in terms of sustainability. Leveraging technological innovation, we actively advance green manufacturing, striving to build nationally significant, low-carbon materials with minimal energy consumption and carbon emissions. We are committed to providing customers with reliable, safe, environmentally friendly, and low-carbon building materials. At the same time, while ensuring product quality and transportation safety, we promote simplified packaging, maximize the use of renewable packaging materials, and reduce packaging waste. In 2024, China Jushi Co., Ltd. explored new approaches to green packaging, driving packaging toward lighter, reduced, and recyclable solutions. The company developed thin

PE shrink bags to replace traditional PVC materials, reducing plastic consumption by 31%.

We also launched more than ten projects in the green and low-carbon industries, including thin-film solar cell technology and industrial application and large offshore wind turbine blade development. At the same time, we strengthened R&D and applications for new cementitious materials and low-carbon concrete, while accelerating certification and promotion of green building products. Aksu Tianshan's "Tianshan" brand general cement, 42.5 Ordinary Portland Cement, and 52.5 Ordinary Portland Cement received the China Low-Carbon Product Certification.

Green Services

We are committed to enhancing green services, advancing innovative practices under the integrated approach of "ecological priority, systematic governance and technology empowerment". Our goal is to create industry-leading models of modern ecological governance and contribute distinctive building material solutions to the construction of a Beautiful China.

Professional Technical Services

By leveraging advanced technologies such as energy-efficient calcination systems, pollutant reduction, waste heat power generation and co-processing, we continuously provide green and intelligent technological transformation services. The France MK3 Project undertaken by CNBM achieved a thermal substitution rate of over 80%, making it one of the most influential cement retrofit projects approved in Western Europe in recent years. In 2024, the world's first full oxy-fuel combustion technology for the cement industry was officially launched. The world's largest phosphogypsum-to-acid cement project was successfully implemented. A European clay calcination demonstration plant achieved 100% fuel substitution.

The high-end equipment manufacturing industrial park was officially put into operation, with full coverage of smart factory products. A global 2.3 GW green power installation project was delivered on schedule.



China National Building Material Equipment Group supported the launch of the world's first eco-friendly demonstration line using oil sludge to produce high-strength lightweight building aggregates

Integrated Consulting Services

Relying on China Testing & Certification International Group Co., Ltd. the largest comprehensive third-party inspection and certification service organization in the field of construction materials inspection in China, we provide consulting, evaluation and certification services in energy assessment, energy management system certification, CDM project, green building materials evaluation, carbon verification and other services. In 2024, the "Dual Carbon" Public Service Platform, jointly developed by China Certification & Inspection Group and 16 key enterprises,

universities, research institutes, and industry associations, was officially launched.

The hazardous waste smart management platform for biopharmaceutical bases we jointly developed went online and was listed as a key case by the Information Center of the Ministry of Ecology and Environment. A carbon footprint database for the raw materials industry was completed, providing 30 enterprises with low-carbon diagnostics, carbon disclosure, and carbon footprint accounting services.



The hazardous waste station application management system of China Testing & Certification International Group Co., Ltd.

Ecological Value-Added Services

We actively promote the use of cement kilns' high-temperature characteristics for co-processing, transforming cement production lines into "purifiers" and "cleaners"—making them an integral part of eco-friendly industries and essential urban

infrastructure. By the end of 2024, the Group had 55 operational and under-construction cement kiln co-processing projects, with an annual disposal capacity totaling 5.84 million tons.



Southwest Cement has made full use of existing land resources to carry out projects involving general solid waste co-processing and alternative fuel utilization

Comprehensive Services of Ecological Restoration

We actively expand environmental protection service projects, covering environmental impact assessments for construction projects, environmental acceptance upon project completion, and pollution discharge permitting. We are also broadening into slope optimization

and geological environment restoration projects, working to minimize the impact on land resources, topography, and landscape. These efforts maximize the restoration of natural ecosystems and mitigate geological hazards caused by mineral resource development.



The Chuzhou Zhonglian mine, constructed by Yanzhou Sinoma Construction Co., Ltd., ranked first in the inaugural national-level Green Mine selection



Several subsidiaries of Tianshan Material Co., Ltd. were also awarded the China Green Building Material Product Certification.

Sinoma Science & Technology Co., Ltd.: Diverse green product practices, promoting industrial upgrading with green innovation

Sinoma Science & Technology Co., Ltd. established a new green energy company in 2024 to explore renewable electricity and apply it to its own operations, driving sustainable growth through green energy. Taishan Fiberglass Inc., Sinoma Lithium Battery Separator Co., Ltd., and Suzhou Limited carried out third-party product carbon footprint verifications, benchmarking against industry-leading standards, identifying gaps, and implementing measures such as source-level carbon reduction and the use of green electricity to lower product carbon emissions. Taishan Fiberglass Inc.'s vacuum insulation panels and high-strength integrated boards were recognized by Shandong Province as approved products for building energy-saving retrofits, further supporting the green transformation of the construction sector.

Green Operations

We continue to strengthen top-level design in environmental management, actively carrying out environmental awareness campaigns and public welfare initiatives. By adhering to green operations and green production, we are further restoring and expanding

greenery, building green factories and eco-friendly campuses, and creating "garden factories" and "beautiful factories" that foster harmonious coexistence between enterprises and nature, and between people and nature.

Green Management

We place great importance on environmental management and have revised and issued the Administrative Measures for Energy Conservation and Ecological Environmental Protection Assessment of China National Building Material Group Co., Ltd.. A mechanism has been established to link ecological and environmental administrative penalties with the performance assessment of corporate leaders, further implementing primary responsibility for ecological and environmental protection. The Group also promoted the full application of the ecological and environmental supervision platform across all subsidiaries. For equity investment projects, strict environmental and safety due diligence procedures are carried out, driving

targeted rectifications, strengthening issue management, and preventing environmental risks. Through full-cycle green management, we are accelerating the development of new quality productive forces.

In 2024, we fully completed rectifications in response to the Central Environmental Protection Inspection, issuing nine rounds of public notices for issue closures. We systematically summarized the results of these rectifications into a comprehensive report, while also conducting reviews on the enforcement of accountability mechanisms and environmental management of merger and acquisition projects, ensuring rectification efforts remain effective and sustainable.

Green Offices

We vigorously promote green office practices. By adopting digital workflows, double-sided printing, and video conferencing, we improve efficiency

while reducing paper consumption. We give priority to purchasing office equipment with energy-saving certifications, actively promote the use of new high-efficiency and energy-saving products and technologies, and advance equipment resource sharing to increase utilization rates and avoid resource waste. We strictly put an end to "man-made destruction of systems, incompatibility between systems and enterprises, problems in work handover procedures, and imperfect management systems", embedding the concept of green development into daily practices and advocating a culture of conservation and environmental responsibility in every detail.

Environmental Protection Publicity and Education

We actively organized activities for National Energy Conservation Week and National Low-Carbon Day, themed around "Green Transition, Energy Efficiency" and "Green and Low-Carbon, Beautiful China". These campaigns promoted ecological values, encouraged low-carbon and green lifestyles, and strengthened employees' awareness of environmental protection, energy conservation, and resource efficiency. In 2024, the Group organized or participated in 1,122 environmental publicity and education events.



▲ Zhou Yuxian, Secretary of the Party Committee and Chairman of the Group, was invited to attend the theme event of "Six Zero Green Building Materials Day" in 2024 and delivered a speech

Ecological Protection

Ecological Protection We remain committed to fully implementing the new development philosophy in a comprehensive, accurate, and holistic manner. For fixed asset investment projects, we conduct in-depth analyses of their impacts on the ecological environment, resource and energy use, and progress toward carbon peaking and carbon neutrality, ensuring compliance with environmental requirements and minimizing ecological risks. At

the same time, we actively engage in diverse environmental public welfare initiatives and carry out solid efforts in ecological restoration and biodiversity protection, safeguarding the precious living beings around our facilities, and reinforcing our commitment to building a Beautiful China where people and nature coexist in harmony. In 2024, the Group contributed RMB 6.492 million toward energy conservation and environmental protection public welfare initiatives.

Data Overview · 2024

The CNBM's ecological and environmental supervision platform has been largely completed, with

10

functional modules now operating stably

In 2024, the platform successfully passed inspection, with

1,208

enterprises making use of it

The number of on-site meetings replaced by video conferences is

37,175



▲ The green factory of Xichuan Zhonglian Cements Co., Ltd.

Data Overview · 2024

The number of training sessions we hosted or organized on energy conservation and environmental protection

6,776

The number of employee participants in training related to energy conservation and environmental protection is

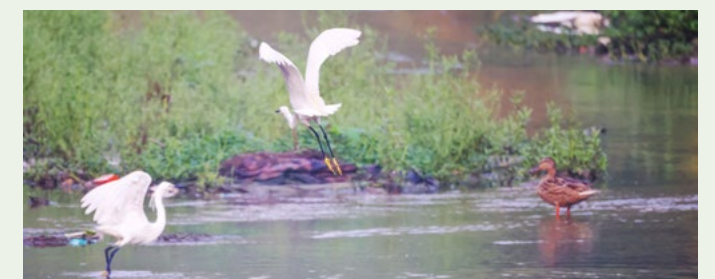
253,981

Ecological Governance and Restoration

- The Geological Exploration Center currently manages one national-level green mine. Its subsidiary, Sino-African New Materials, achieved a total of 22.5 hectares of land reclamation at the Shanghe kaolin mine by the end of 2024.
- In 2024, Sinoma Int restored 3.5535 million square meters of land and provided services for the construction of 154 green mines, including 46 national-level sites.

Sinoma Science & Technology Co., Ltd.: Green and Friendly, Protecting Life in Our Parks

NorthGlass Co., Ltd., a subsidiary of Sinoma Science & Technology Co., Ltd., places great importance on biodiversity conservation. With biodiversity protection as its core goal, the company strengthens employee training and awareness, regularly holds biodiversity lectures, and organizes biodiversity-themed events. By putting these ideas into practice, the company ensures that biodiversity protection becomes deeply rooted in employees' minds. Staff actively and enthusiastically respond to the company's strategic planning, taking green action to advance sustainable corporate development. Since settling in Tengzhou, Shandong in 2017, Tengzhou Company has become a welcoming habitat for wildlife. Nationally protected mallards (Class II) now stay year-round in the factory's rivers. Egrets stand gracefully while foraging, and wild ducks play in the river with their newborn chicks. The site has become a well-loved birdwatching spot in Shandong.





Excellence in Brand Acting with Responsibility to Foster a Harmonious Society

General Secretary Xi Jinping emphasized, "We must start from and focus on meeting the people's growing needs for a better life, continually turning development achievements into quality of life, and constantly enhancing people's sense of fulfillment, happiness, and security". CNBM Group strives to create a positive atmosphere in which the company and its employees grow and progress together. We pursue win-win cooperation with our partners, fulfill our role as a centrally administered state-owned enterprise to promote shared prosperity, and extend warmth through philanthropic efforts—working together to build a harmonious society.

04

Sustainable Development
Goals (SDGs) of United
Nations



Total number of employees

198,600



Total external donations

RMB 91.4736 million



Newly created jobs

25,723



Assistance Funds Allocated

RMB 85.28 million

Volunteers of CNBM's "Shanjian" Colorful Classroom engaged with local children

Safety and Prudence

We've thoroughly studied and implemented the guiding principles from General Secretary Xi Jinping on work safety. Adhering to the approach of coordinating development and security, we treat ensuring work safety as a critical political responsibility. Our efforts involve improving the management system, strengthening fundamental and targeted initiatives, promoting safety through technology, and enhancing emergency response capabilities. We are fully committed to advancing safety improvements in key sectors, which has maintained an overall stable safety situation. In 2024, CNBM invested RMB2.99bn in occupational health and safety, a YoY increase of 35.9%.

Safety Management

Driven by a profound sense of responsibility and mission, we accelerated the modernization of our work safety governance system and capabilities, guided by the "Three-Year Work Safety Campaign for Fundamental Improvement". This concerted effort has effectively elevated the company's work safety performance to a new level. In 2024, we formulated the CNBM Three-Year Work Safety Campaign for Fundamental Improvement (2024-2026), which involves the implementation of 10 specialized initiatives comprising 36 specific measures. Furthermore, we comprehensively revised the Work Safety Assessment and Management Measures of China National Building Materials Group Co., Ltd., refining the framework for safety penalties to ensure that safety responsibilities are thoroughly embedded and fulfilled. As a result of these efforts, no major or above-grade work safety accidents occurred in 2024.

Eliminating Major Hidden Hazards and Strengthening Closed-Loop Management

Relying on our safety supervision platform, we established a database of major accident hazards. Details of hidden hazards from all domestic subsidiaries at every level are compiled monthly and reported in real-time through the safety management system. In 2024, the Group identified more than 283,000 hidden dangers, achieving a rectification completion rate of 99.57%. The list-based

Launching the "Zero Violation" Initiative

We innovatively launched the "Zero Violation" campaign to instill in our employees the safety principles that "violations are hidden dangers, violations will cause accidents, and violations endanger lives". By establishing positive incentive measures in the field of safety management, we directly addressed the gaps in frontline employees' safety awareness and blind spots in supervision. This initiative standardizes operational behaviors and fosters a robust safety culture. In 2024, the Group recognized 5,668 excellent units and 25,558 outstanding individuals for their excellence in the "Zero Violation" initiative.

Accurate Risk Identification, More Thorough Hazard Management

At 11:52 on June 30, 2024, an urgent alarm was triggered in the control room of a CNBM cement enterprise located in Fujian, and the safety director immediately received the fire notification through the "Anzhitong" APP. At 11:53, the alerted personnel quickly dialed 119 for emergency assistance, and at 12:15, the fire and rescue crews arrived on site to put out the fire, effectively avoiding casualties and property losses.

Safety Through Technology

The promotion of science and technology is the fundamental strategy to improve the level of work safety management of enterprises. We actively promote safety through technology and digital transformation, deeply integrating the dual prevention mechanism, which involves graded control of safety risks and the management of hidden hazard remediation, with cutting-edge technologies such as artificial intelligence, Internet of Things, 5G, mobile video and 3D visualization. This initiative has launched the intelligent and digital transformation of safety management, preliminarily establishing

a management platform for enterprises to realize intrinsic safety, and improve the efficiency of safety management.

In 2024, the intelligent work safety management system was deployed across 588 group enterprises. It identified 185,000 hidden hazards, achieving a remarkably high rectification rate of 99.24%. Consequently, the system was selected for inclusion in the Ministry of Industry and Information Technology's "List of Typical Application Cases of Artificial Intelligence Empowering New Industrialization".

Our Achievements

■ The scheme of "Artificial Intelligence + Work Safety, Creating a New Safety Management Mode of Human-Machine Collaboration", jointly launched by Xinyun Zhilian and Tianshan Material Co., Ltd., was selected for inclusion in the Published List of Typical Application Cases of Artificial Intelligence Empowering New Industrialization by the Ministry of Industry and Information Technology.



▲ CNBM Safety Supervision Platform

CNBM's Intelligent Work Safety Management System represents an advanced level in industrial Internet platforms and intelligent safety management. It is a pioneering achievement among the cement enterprises and coal sector entities inspected, and possesses significant value for broader promotion and application.

—Former Vice Minister of Emergency Management and Former Director of National Mine Safety Administration

CNBM's Intelligent Work Safety Management System is a revolutionary achievement with demonstrative and referential significance.

—Head Official, Bureau of Industry, Trade and Law Enforcement of the Ministry of Emergency Management

Safety Culture

Data Overview · 2024

Emergency drills conducted

10,456

Employee participations in
emergency drills

235,160

We actively studied and implemented the guiding principles from General Secretary Xi Jinping's important statements and directives on work safety. We comprehensively strengthened employee education and training, enhanced the development of a professional safety workforce, and actively conducted emergency drills. These efforts holistically improved our emergency response capabilities, ensuring safety and stability across all operations.

In 2024, we organized all sub-enterprises to formulate annual training plans tailored to their specific industry characteristics. Cumulatively, we carried out more than 90,000 work safety training sessions, involving 2.16 million participant attendances. Subsidiaries at all levels actively organized Party members and cadres to participate in the training courses via the SASAC's E-Learning online platform. This further tested and improved the knowledge base and professional technical skills of the Group's safety management personnel.

Employee Growth

We adhere to a people-oriented approach, protecting the legitimate rights and interests of our employees. We strive to create a diverse, inclusive, healthy and dynamic workplace environment, attracting more outstanding talents to grow together with the enterprise. By unleashing the enthusiasm and capabilities of talents, we collectively foster a positive workplace ecosystem.

Employee Benefits

We strictly comply with laws and regulations such as the Labor Law of the People's Republic of China and the Labor Contract Law of the People's Republic of China, resolutely oppose forced labor and child labor, and protect the basic rights and interests of employees in an all-around way. We arrange employment for the disabled or pay the employment security fund for the disabled as required. We encourage relevant enterprises to recruit ethnic minority employees, especially college graduates from ethnic minorities. We focus on employee development, treat employees from different backgrounds fairly and impartially, improve employee communication channels and democratic management mechanisms, and provide employees with a safe, healthy, diverse, inclusive and non-discriminatory workplace environment.

Compliant Employment

- We adhere to the principle of equal employment, focusing on vulnerable groups, and eliminating employment and occupational discrimination to ensure equal treatment for every employee. We respect and safeguard all internationally recognized human rights, and comply with fundamental labor rights as defined by national laws and the International Labor Organization standards.
- We duly contribute to statutory social insurance schemes for employees as required by law, including basic pension insurance, basic medical insurance, unemployment insurance, work-related injury insurance and maternity insurance. We continuously improve supplementary benefits such as supplementary medical insurance, enterprise annuity and regular health checkups. Additionally, we encourage member enterprises to provide other supplementary insurance schemes, such as accidental injury comprehensive insurance, tailored to their specific circumstances.

Compensation and Benefits

- We are committed to benchmarking against the best practices in our industry and market. We maintain the establishment of a salary growth mechanism that matches economic performance, and uphold a performance-driven culture. This ensures that compensation rises with performance improvements and falls with performance declines, fully reflecting the market competitiveness of our employee salary system.
- To enhance employees' sense of belonging, we provide daily meals and essential welfare benefits, organize regular health checkups, offer housing subsidies to eligible young unmarried employees, hold expert health consultation sessions for employees of the headquarters, and improve cultural and sports facilities. These initiatives strengthen cohesion and enrich employees' cultural lives.

Privacy Management

- We continuously strengthen the management of employees' personal information. Throughout processes such as cadre selection, performance evaluations, recruitment, health checkups, HR system operations, third-party consultations, and routine data collection, we strictly adhere to relevant policies to protect employees' personal information and prevent any privacy breaches.

Democratic Management

- We fully respect employees' right to information and supervision by establishing smooth communication channels and emphasizing a trade union-based employee exchange system. We have build a democratic management mechanism using the Workers' Congress as a platform to collect consolidated proposals from employee representatives and address their suggestions and requests.



▲ Jiyuan Zhonglian Cement Co., Ltd. uses VR to innovate safety education formats

Data Overview · 2024

Total number of employees

198,600



Employees from foreign countries,
Hong Kong, Macao and Taiwan

1,643



Employees from ethnic minorities

7,200



Employees with disabilities

1,302



Number of female managers

3,404



Number of member enterprises
offering enterprise annuities

620



Locally hired employees

112,740



Newly created jobs

25,723



Labor contract signing rate

100 %



Social insurance coverage rate

100 %



Percentage of employees
participating in labor union

91 %



Employee turnover rate

12 %



◆ The Group held its 2025 Work Conference and the 4th Session of the 2nd Workers' Congress.

Data Overview · 2024

Annual training input

RMB 110 million



Establishing a regular stakeholder
responsibility communication
platform

66,887



4 employees



were selected into the Advanced
Basic Process Talent Project under
the Manufacturing Talent Support
Program of the Ministry of Industry
and Information Technology.

677 employees



obtained professional titles in
engineering, accounting and
economics series, among which

401



attained senior-level or higher
titles.

Employee Development

Talent training is the cornerstone of sustainable business growth. Guided by the core principles of "strategic alignment, business enablement, and value creation", we emphasize a "systematic, forward-looking and scientific" approach to talent development. This ensures comprehensive support for employees' career development and workplace experience, effectively fostering both

individual growth and organizational success, thereby achieving a mutual elevation of employee and corporate value. In 2024, we set up the Party School (Training Center) of the Group, and our initiative "innovating and optimizing training models to build an excellent cadre team" was selected into the "Collection of Innovative Cadre Training Cases from Central State-Owned Enterprises".

Enhancing the training system

Conducting stratified and categorized
offline training

- We organized 3 training sessions on the spirit of the Third Plenary Session of the 20th CPC Central Committee. We regularly held medium to long-term programs such as EMT and Young and Middle-aged Cadres Training, cumulatively training over 1,041 young and middle-aged cadres annually. For the first time, we launched programs including the "Top Leader" Political Capability Training, Internationalization Special Training, and Science & Technology Leadership Talent Seminars, covering 235 participants of various categories.

Orderly construction and operation
of online platform

- We launched the "Good Building E-Learning" platform, offering over 2,500 courses and 30 specialized programs. More than 46,000 accounts have been activated, accumulating over 1 million learning hours.

Smoothing development pathways

- We continue to broaden the career development channels of employees, establish a multi-channel level system at the headquarters, including management, professional, and specialist tracks. This ensures smooth and orderly career development channels, guiding employees of different types and specialties to choose development paths suited to their strengths.

- Employee performance is integrated into appraisal systems and career path design. Different performance evaluation criteria are established for various positions, and year-end bonuses, performance bonuses, and contribution awards are distributed based on appraisal results.

- Adhering to a combination of universality and specificity, current performance and development potential, and qualitative and quantitative assessments, we have built a scientific, categorized talent evaluation system based on professional attributes and job requirements. For scientific and technological talent, performance assessments are tailored according to role characteristics, creating an environment conducive to innovation and exploration.



◆ The 17th young and middle-aged cadres training



◆ Jingcai Summer Camp

Employee Care

We attach importance to the well-being of our employees, promoting a healthy work-life balance to enhance their sense of belonging and happiness. We pay attention to specific employee groups, such as pregnant women, individuals with disabilities, and families facing financial difficulties, actively providing economic assistance, diversified benefits and compassionate support to foster a warm and caring corporate atmosphere.

Data Overview · 2024

Expenditure on supporting employees in special circumstances and financial hardship

RMB **10.485** million

Support provided to employees in special circumstances and financial hardship

8,769

Occupational Health



- We strictly abide by laws and regulations including the Occupational Disease Prevention and Control Law of the People's Republic of China, covering areas such as occupational disease prevention, labor protection in workplaces, and occupational health supervision. We've established and robustly implemented systems for preventing occupational diseases and work-related injuries. Our comprehensive measures include conducting regular occupational health examinations, providing first-aid skills training, organizing expert health consultations, and promoting knowledge on labor protection and general health. These initiatives strengthen the protection and management of our employees' occupational health, effectively aiming to prevent, control, and eliminate occupational hazards. In 2024, the Group invested RMB 2.99 billion in occupational health and safety. We recorded 2.16 million attendances at occupational health training sessions, and 462 member enterprises established systems or measures for employee psychological health.

Financial Hardship Assistance



- In accordance with the CNBM 'Good Building Public Welfare Fund' Employee Assistance Implementation Measures, we provide support to employees facing financial difficulties. Assistance recipients and their eligibility are carefully reviewed at each management level to ensure the program effectively helps resolve practical challenges and fulfills its role in providing relief to those in need.

Care for Female Employees



- We respect and protect the special rights and interests of our female employees in accordance with the law. We ensure that they fully enjoy benefits such as prenatal check-ups, maternity leave, nursing breaks, maternity insurance reimbursement, and maternity allowances. Practical support includes dedicated nursing rooms for breastfeeding mothers and nutritional supplements provided through the staff canteen for pregnant employees. We regularly hold diversified events focused on female employee well-being and distribute special holiday gift packages. These initiatives are designed to actively help our female employees achieve greater professional satisfaction and personal happiness.

Open Cooperation

We embrace open collaboration with a proactive attitude, enhancing exchanges and cooperation with government bodies and enterprises. We strengthen ties with research institutions to deepen industry-university-research integration, building close partnerships aimed at achieving mutual benefits and synergistic development.

Win-Win Cooperation

As the "national team" and a leading force in the non-metallic materials industry, we actively pursue strategic partnerships with governments, enterprises, and research institutes, etc. We innovate cooperation models, realize strong alliances to foster powerful alliances and complementary advantages, jointly pursuing high-quality development. In 2024, the Group issued its first CNBM Strategic External Cooperation Management Measures (Trial), which standardizes requirements and filing procedures for member enterprises entering into strategic agreements with local governments. This strengthens risk management and control, further solidifying mutually beneficial partnerships.

Deepening integration between central SOEs and local development

- A strategic cooperation agreement was formally signed with Xuzhou Municipal Government. This collaboration supports the healthy development of CNBM's enterprises in Xuzhou and facilitates the resolution of historical issues related to Huaihai Zhonglian Cement Co., Ltd. A key outcome has been the acquisition of the mining rights for the Dajiangmen Mine.
- We engaged in in-depth discussions with Suzhou City to coordinate and advance the revitalization of our Group's assets in Suzhou, while planning strategic cooperation with the city in areas such as industry, technology, and capital.
- We liaised with the local governments of Qinghai, Ningxia and Nanjing through high-level meetings and official correspondence to help our member companies secure entitled support policies.
- We actively participated in events aimed at deepening cooperation between central SOEs and the provinces of Liaoning, Hunan, Jiangxi, and Gansu.

- ◆ CNBM and CSCEC held a strategic cooperation agreement signing ceremony in Beijing.



- ◆ CNBM and Tsinghua University held a strategic cooperation agreement signing ceremony.

Data Overview · 2024

Strategic cooperation agreements signed

5



Visits from leading domestic and international enterprises

20



Visits and inspections hosted for officials from domestic and international ministries, and provincial and municipal governments more than

40



National-level public service demonstration platforms for SMEs

7



Deepening strategic enterprise-to-enterprise cooperation

- We signed strategic cooperation agreements with Saudi Aramco and the Dangote Group to promote our strategic footprint in the Middle East and Africa.
- We signed a strategic cooperation agreement with CSCEC to foster collaboration in engineering projects, the "Dual Carbon" goals, procurement and supply. We also held substantive discussions on strategic cooperation with China Poly Group, CNOOC and China Huadian Corporation Ltd.
- We strengthened business ties and expanded our network of central SOE partners, including companies such as Sinopec, China National Coal Group, and China First Heavy Industries (CFHI).



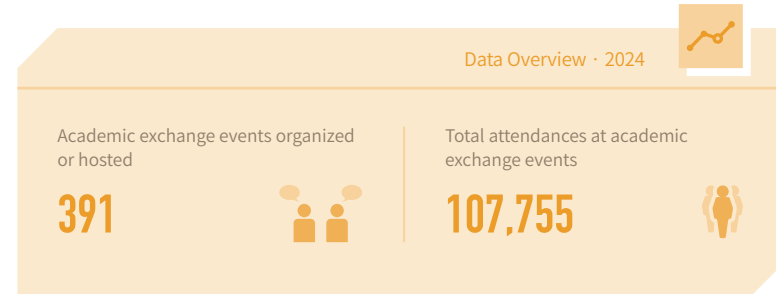
◆ Spring Festival Garden Fair



◆ International Women's Day DIY Jewelry-Making Event

Driving industry advancement

We actively participated in various multi-lateral high-level meetings and forums to share development insights. We've continuously strengthened industry research and specialized integration, analyzed industry trends, and leveraged our corporate capabilities to fuel the growth of the sector.



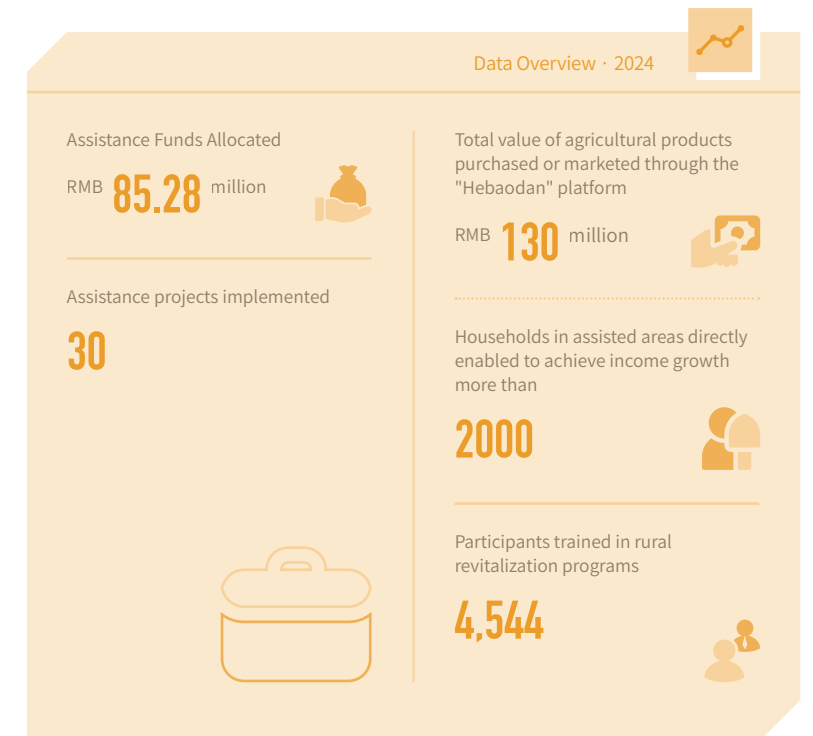
Common Prosperity

As General Secretary Xi Jinping pointed out, Chinese modernization is the modernization of common prosperity for all people. As an important material and political foundation of socialism with Chinese characteristics, CNBM has given full play to its own advantages by actively contributing to rural revitalization and participating in development aid projects in Xinjiang and Xizang, drawing a "concentric circle" for common prosperity.

Contributing to rural revitalization

We have thoroughly studied and implemented the guiding principles of General Secretary Xi Jinping's important speeches and directives on agriculture, rural areas, and farmers. We regard the vital task of promoting rural revitalization in our five designated assistance counties as a major political responsibility. Adhering to the "Four No-Withdrawals" principle and focusing on the "Five Major Revitalizations", we have deepened our integrated "six-in-one" assistance model that includes: political guidance, technology empowerment, talent support, e-commerce income growth, cultural tourism promotion, and industrial development. By enhancing the self-development capabilities of formerly impoverished areas and aiming for sustained income growth for residents, we continuously contribute to consolidating and expanding the achievements of poverty alleviation, laying a solid foundation for rural revitalization.

"Playing the Main Theme of Rural Revitalization and Reflecting the Responsibility and Undertaking of Central Enterprises" was selected as an excellent performance case in the "Common Prosperity Chapter" of the Blue Book on Social Responsibility of Central Enterprises (2024).



2024 Building Materials Industry Convention was held in Beijing.

On November 13-14, 2024, the 2024 Building Materials Industry Convention, hosted by the China Building Materials Federation and co-organized by CNBM, was held in Beijing. Mr. Zhou Yuxian, Secretary of the Party Committee and Chairman of CNBM, delivered a speech at the event. The convention featured a release ceremony for breakthrough new technologies and products under the industry's "Suitable for Industry, High-Quality Products" initiative, premiering the sector's "latest breakthroughs" and "world's firsts". After public solicitation and expert selection, 6 new technologies and products, including cement aerogel, carbon mineralization multi-functional inorganic coating materials, and foldable modular buildings, were unveiled, recognized as "first-of-their-kind". In addition, the event released several key publications and initiatives: the "2024 Comprehensive Strength Ranking of Global Listed Building Materials Companies", the 2024 industry action plan for "Replacement of Old Products with New Ones", the ESG Development Research Report of China's Building Materials Industry (2024) along with exemplary case studies, outstanding works from the 2nd Building Materials Industrial Design Innovation Competition, the establishment of standardized workstations for the building materials industry, and the first batch of enterprises receiving building materials carbon label certification. The convention also honored 65 projects that won the 2023 Building Materials Science and Technology Award, and recognized those selected for "100 Exemplary Association Standard Application Projects" by the Ministry of Industry and Information Technology in 2023.



5 designated assistance districts and counties of CNBM





Political guidance

We've consistently treated the effective execution of designated assistance work as a concrete action to uphold the "Two Establishes" and achieve the "Two Safeguards". We strengthened organizational leadership and advanced the work through careful planning.



Ideology first for high-level promotion

- The "First Agenda Item" and theoretical learning center group meetings were held four times successively to study General Secretary Xi Jinping's instructions on rural revitalization. We held three Standing Committee meetings to formulate key work points, develop fund allocation plans, and review assistance budgets and key projects.

System deployment and responsibility-based implementation

- We convened a conference on rural revitalization assistance to convey the SASAC's requirements and deploy annual tasks. We established a responsibility-based assistance mechanism, pairing core subsidiaries with the five designated counties/districts. We fostered an effective model of "planning and leadership of the Group HQ, proactive execution by responsible units, on-the-ground implementation by field cadres, and active participation of all member enterprises".

Central SOEs and local economies working together for joint advancement

- Four senior Group leaders led teams for frontline research and guidance, achieving full coverage of assisted areas by aligning with local needs. Group-wide leaders conducted 90 field research visits to assisted regions.



Industrial development

Leveraging our core expertise in building materials, we implemented tailored industrial assistance projects to enhance the endogenous development capacity of agriculture and rural areas.



Coordinated planning of industrial assistance projects

- Among the 30 assistance projects implemented throughout the year, there were 11 industrial projects, of which 6 ones gave full play to the Group's distinct advantages. All 11 industrial assistance projects achieved project approval, implementation, and yielded benefits within the same year.

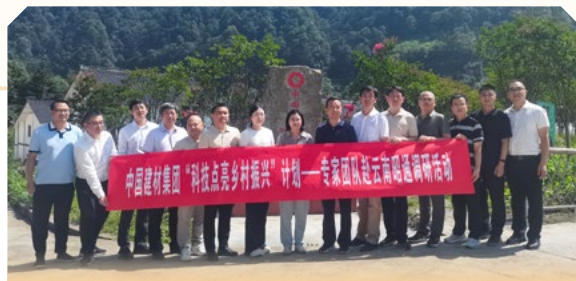
Actively carrying out industrial cooperation between central SOEs and local economies

- In Chizhou, Anhui Province, we launched a new materials project with an investment exceeding RMB 10 billion, establishing an aggregate production base in East China. The entire system successfully completed no-load test runs in 2024, creating over 2,000 local jobs. In Weixian County, Hebei Province, our subsidiary Triumph Science & Technology Group Co., Ltd. has given full play to its technical advantages of new glass materials to develop the first neutral borosilicate glass tube for vaccines in China, building an industry worth over RMB 100 million in the county and providing jobs for more than 1,000 people.



Technology empowerment

For two consecutive years, we have conducted the "Science and Technology for Rural Revitalization" initiative. We gathered 20 nationally recognized science and technology experts from the fields of basic building materials, new materials, and engineering technical services to conduct resident surveys and investigations in the assisted counties/districts. They provided a series of constructive recommendations, which are being continuously promoted for implementation.



Applying advanced "ceramic membrane" technology to enhance rural water safety

- The expansion of the Duanjiashiqiao Water Plant in Zhaoyang District now has a treatment capacity of 5,000 cubic meters per day, which solves the insufficient water supply capacity in Shouwang Township and ensures safe drinking water for more than 50,000 residents. The "Domestic Sewage Treatment Station in Jiuzhen Resettlement Area" treats 50 cubic meters of sewage per day, enabling centralized treatment of domestic sewage in the village and contributing to the construction of an ecologically livable and beautiful countryside.

Giving full play to the advantages of geological exploration technology to assist in planning and development of rural mineral resources

- We conducted mineral resource surveys in Suijiang County, Zhaoyang District and Yongshan County. A black sandstone deposit with considerable reserves and excellent quality has been discovered in Suijiang County. We are advancing the creation of a professional report and providing development recommendations. Currently, we're promoting the exploration of key mineral resources such as silicon, aluminum and kaolin in Zhaotong City, aiming to drive the development and utilization of local mineral resources.



Talent Support

We selectively assigned cadres with sound political integrity, strong working competence, endurance, and a demonstrated commitment to front-line posts in rural revitalization. These assistance positions are regarded as a vital platform for grooming and training young cadres.



Selecting the best and assigning them to strengthen the teams of assistance cadres

- Since 2016, a total of 105 cadres have been rigorously selected for assistance work. At present, there are 11 cadres in post, including 5 on-the-job deputy county (district) heads and 6 first secretaries in villages.

Cultivating the comprehensive quality of cadres

- To enhance their political competence, cadres are organized to participate in training courses for the first secretaries of central units in villages, ability improvement courses for cadres of state-owned enterprises in rural revitalization, and special training courses on the spirit of the Third Plenary Session of the 20th CPC Central Committee.

Training local grassroots cadres and talents

- In 2024, 5 talent training projects were implemented, training 1,240 talents of all kinds.

Deepening the "Good Learning" program

- We have upheld the principle that "Education is the future", continuously deepened the "Good Learning" program, and worked to improve education in mountainous regions.



Cultural Tourism Drive

Capitalizing on the abundant natural landscapes and red tourism resources in the designated assistance areas, the Group supported the cultural tourism industry and systematically implemented its "good mountains, good rivers and good scenery" initiative.



Assisting in Infrastructure Construction Vigorously

- The Group has invested RMB 15.4 million to improve the infrastructure of Dayan Township in Shitai County, helping Shitai Guniu to declare a 5A-level scenic spot; a total of RMB 11.25 million was invested in the construction of a research and practice base in Yangling Village, Jingzhou County. In 2024, it received more than 60,000 people to visit and study, and the revenue from accommodation, training and catering consumption was RMB 1.8 million, driving more than 50 jobs at home.

Developing Supporting Health Maintenance Facilities

- A total of RMB 13.7 million was invested in the construction of a new outpatient building and a health care building for Shitai County People's Hospital. Spanning 5,100 square meters, the new facilities provide treatment for geriatric and chronic conditions, serving both wellness practitioners and the local community while supporting the growth of Shitai County's wellness sector.

Exploring Revolutionary Heritage In-Depth

- By investing over RMB 8 million, the project established the Party History Education Base in Shouwang Township, Zhaoyang District. The base has conducted 280 educational sessions, receiving over 30,000 visitors. This has expanded the "Red Tourism +" model, revitalized diverse tourism resources, and boosted local economic development.



E-commerce Revenue Growth

Launched in 2016 to help agricultural products "leave the mountains" and reach the market, the Group's "Hebaodan E-commerce Assistance Platform" conducted a series of activities in 2024, including live streaming, exhibition promotions, and corporate group purchases. For its efforts, the platform was recognized as a "Characteristic Project of Central Enterprises in Rural Revitalization" and featured in the Bluebook on Supporting Rural Revitalization by Central Enterprises (2023).



"Hebaodan" Conducting Live Streams to Assist Farmers

- The Group actively participated in the SASAC's "Central Enterprises' Consumption Week for Rural Revitalization" and "Central Enterprises-Led Spring Festival Consumption Initiative" by organizing the purchase of agricultural products from designated assistance areas and central enterprise e-commerce platforms, achieving RMB 21.4 million in supportive consumption.

Exploring and Expanding the "Online + Offline" Model

- The Group sold and promoted agricultural products during the two rounds of the "Building Materials Culture, Heart-to-Heart Connection" tour, comprising eight sessions. It also innovatively launched the "Nostalgia on the Tongue" agricultural exhibition in the company canteen, which was highly popular among employees, with an average of over 3 orders per person and on-site sales exceeding RMB 100,000.

Implementing the "Adopt an Apple Tree" Initiative

- The Group boosted the development of the Zhaoyang apple industry, brought consumers the experience of participating in the growth of apples, and facilitated the adoption of 3,338 fruit trees in 2024.

Aid to Xinjiang, Xizang, and Qinghai

We have fully implemented the decisions, deployments, and work arrangements of the SASAC regarding assistance programs for Xinjiang, Xizang, Qinghai, and Jiangxi. With a focus on industrial development support, we prioritized investments in recipient regions and consistently deepened and substantiated aid programs in Xinjiang, Xizang, and Qinghai. In 2024, the Group participated in the Central Enterprise Industry Promotion Conference and the Training Course for Aiding Xinjiang and Xizang; Adhering to industrial assistance

for Xinjiang and Xizang, Beijing New Building Materials Public Limited Company (BNBM) has established four production bases with an investment of hundreds of millions of yuan. The company has also recruited over 200 local employees, helping to alleviate employment pressures. These efforts translated the results of assistance into enhanced and substantive improvements in public livelihoods, fostered ethnic unity, and promoted high-quality development and common prosperity in ethnic regions.

Data Overview · 2024



Group enterprises in Xinjiang

45



Taxes paid

RMB 775 million



Group enterprises in Xizang

2



Taxes paid

RMB 63 million



Group enterprises in Qinghai

4



Taxes paid

RMB 30 million



▲ Zhou Yuxian, Secretary of the Party Committee and Chairman of the Group, was invited to attend the "China Industrial Award Enterprises Entering Xinjiang: Forum on Promoting High-Quality Development of Regional Economy"

Good Deeds

We are committed to social welfare causes with a strong sense of political responsibility and historical mission. We actively carry out volunteer services, participate in social emergency rescue and disaster relief efforts, and fulfill our responsibility of serving the people's interests and working for their well-being.

Public Welfare Volunteering

We continue to practice the concept of "smart use of resources, services for construction", set up a "Good Building" public welfare fund, implement the "Good Learning Program", and carried out "Colorful Classroom" activity. We set up a volunteer team to carry out a wide range of social welfare activities, such as volunteering, helping the weak and the needy, and supporting teaching and education. By sharing development achievements with society, we contribute "Building Materials Strength" to advance social progress, improve people's livelihoods, and help realize the public's aspiration for a better life.



Emergency Rescue and Disaster Relief

Whenever the country is struck by a natural disaster, we are always among the first to extend a helping hand. Whether it's providing financial support and relief supplies to the affected areas, participating in on-site rescue operations, or taking part in post-disaster reconstruction efforts, we give our all to help the affected communities overcome these hard times.



"Shanjian" Colorful Classroom: Kindling the Flame of Dreams

The Group has continued its diverse "Good Learning Program" for many years and has organized the "Shanjian" Colorful Classroom for seven consecutive years. In 2024, the "Shanjian" Colorful Classroom set up 14 teaching sites across five designated assistance counties and districts of the Group, reaching over 890 students. More than 90 young volunteers from 34 member enterprises actively participated, offering wonderful corporate-themed lessons that guided children into the fascinating world of materials and planted the seeds of building a strong nation through advanced materials. Through the spirit of the Olympic Games, they ignited children's patriotic feelings and helped them sense the nation's growing strength. With rich human geography knowledge, they brought children closer to "Amazing China", allowing them to appreciate the boundless landscapes beyond the mountains. Throughout the teaching process, the volunteers were repeatedly touched by the children's kindness and innocence. Together, they shared moments of companionship, achieving two-sided growth from a single volunteering experience.



Sustainability management

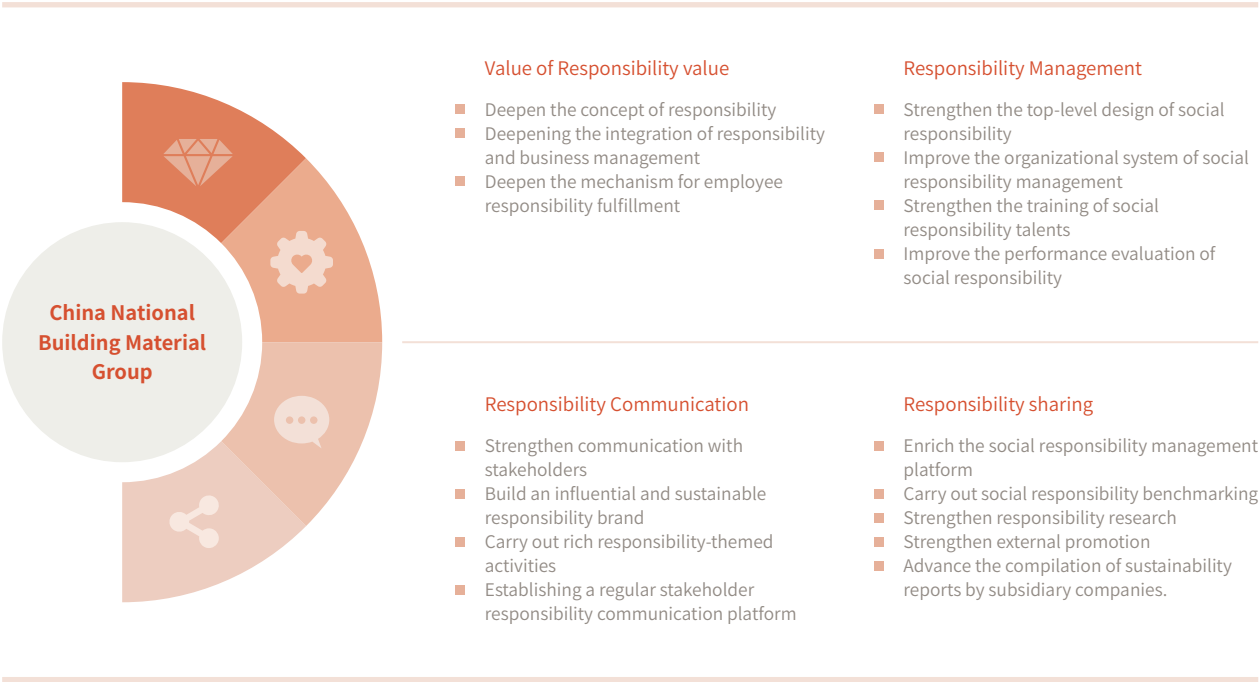
Strengthening organizational leadership

CNBM places high importance on its social responsibility initiatives, integrating them into its key agenda. The Group has consolidated and continuously improved its leadership structure for social responsibility work, ensuring coordinated planning and promotion of major related activities. The Group has allocated dedicated funding for social responsibility initiatives and strengthened the management of related expenditures. This top-down approach ensures the systematic advancement of all social responsibility tasks throughout the organization. Meanwhile, the Group continued to enhance its capacity for responsibility building by participating in internal and external social responsibility training and exchanges, thereby improving its social responsibility management and practical capabilities.



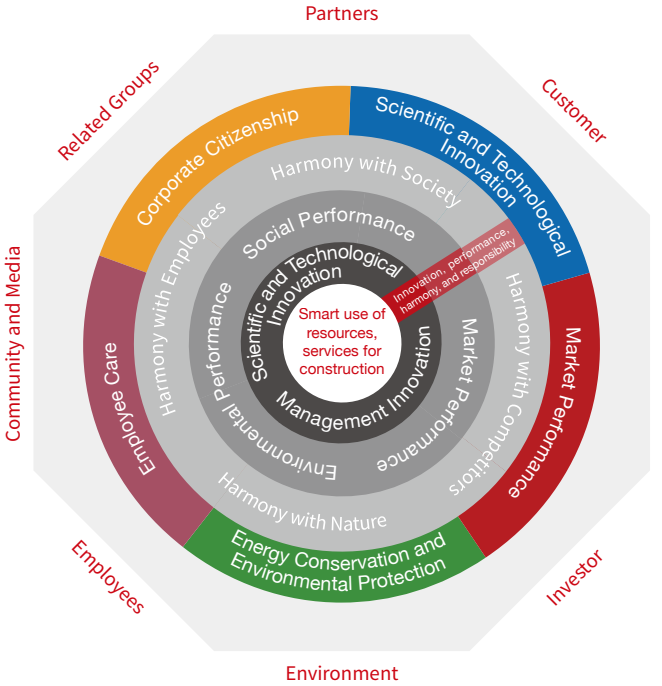
Improve the system and mechanism

CNBM has established and strengthened a comprehensive management system for its social responsibility work. This includes implementing standardized procedures for annual planning and reporting in key areas, continuously enhancing the standardization and institutionalization of its CSR practices. Simultaneously, the Group adheres to the principle of integrating social responsibility fulfillment with promoting corporate development. Grounded in its operational realities, CNBM treats social responsibility as a vital component of building a modern enterprise system and enhancing its overall competitiveness. By transforming its development model and accelerating transformation and upgrading, the Group pursues the organic unity of strategic growth and responsibility. It systematically integrates the concept of social responsibility into corporate strategy and across all aspects and processes of management. This approach emphasizes key priorities, implements measures step-by-step for tangible results, and ultimately drives high-quality development of the enterprise.



Social responsibility model of CNBM

The Group attaches great importance to the demands of stakeholders such as investors, governments, employees, customers, partners, relevant groups, communities and media, and the environment, adheres to the core concept of "smart use of resources, services for construction", adheres to harmony with competitors, nature, employees and society, and finally implements the concept of social responsibility in the performance of responsibilities in five aspects: market performance, scientific and technological innovation, energy conservation and environmental protection, employee care and corporate citizenship, and is committed to pursuing the coordination and win-win of the market, environment and society.



Deepen the practice of responsibility performance

Build a responsible brand

Based on its unique strengths and practical realities, CNBM has proactively planned and implemented distinctive social responsibility practices. By enhancing internal coordination and external collaboration, the Group has gradually developed a portfolio of impactful, widely participatory, highly recognizable, and sustainable branded CSR projects and initiatives.

On August 26, 2024, CNBM successfully launched the 5th "Smart Use of Resources Day" open event series in Beijing under the theme "Celebrating the New China, Striving for a New Era". The launch event, hosted by CNBM subsidiary, Beijing New Building Materials Public Limited Company, featured a cultural tour "Saluting the 75th Anniversary", released sustainability reports from 18 member companies, hosted a cooperation promotion meeting for engineering construction innovation achievements, curated the "China's Excellent Materials" exhibition series, and organized a display of resource-efficient cultural creations and a specialty materials cultural market. These activities comprehensively showcased CNBM's vibrant practices in high-quality development.

Responsibility-oriented

Work hard for a long time to create a responsible brand of "Smart Use of Resources Day".

- 1st Session (2020): Green and Environmental Protection
- 2nd Session (2021): Inheriting the Legacy: Integrating Party History and Corporate History with Red Culture Dissemination Marking the 5th Anniversary of the Two Materials' Merger
- 3rd Session (2022): Smart Manufacturing
- 4th Session (2023): Working Together, Cooperating for Success
- 5th Session (2024): Celebrating the New China, Striving for a New Era



Explore characteristic responsibility practices

CNBM empowers social responsibility management through digitalization, continuously exploring and forming a distinctive social responsibility management practice model characteristic of the building materials industry. The Group's social responsibility work has garnered widespread societal acclaim.

Responsibility, honor and recognition

- Ranked **13th** in the "Central Enterprises Responsibility Management · Pioneer 30 Index (2024)"
- Ranked **8th** in the "Top 100 State-owned Enterprises Social Responsibility Development Index (2024)"
- Ranked **10th** in the "Top 300 Chinese Enterprises Social Responsibility Development Index (2024)"
- Won the **"Responsibility Narwhal Award—Overseas Responsibility Fulfillment Award"**
- Selected as **"2024 China ESG Excellent Practice"**
- "Playing the Main Theme of Rural Revitalization and Reflecting the Responsibility and Undertaking of Central Enterprises" was selected as an excellent performance case in the **"Common Prosperity Chapter" of the Blue Book on Social Responsibility of Central Enterprises (2024)**.
- Deepening the Belt and Road Initiative, Advancing with the World was selected as an outstanding **overseas ESG case study in the Blue Book on Overseas ESG for Central State-Owned Enterprises (2024)**.

Drive supply chain performance

CNBM integrates social responsibility principles into the management of its industrial chain, supply chain, and value chain. It actively encourages upstream and downstream enterprises, partners, and a broad user base to jointly fulfill responsibilities, thereby building a social responsibility ecosystem.

Responsibility leading

CNBM actively responds to the policy guidance from the SASAC regarding corporate social responsibility fulfillment. It commits to being accountable to stakeholders, society, and the environment throughout its operations, maximizing the creation of comprehensive economic, social, and environmental value to promote sustainable development. Simultaneously, as an important member of the United Nations Global Compact and the World Cement Association, CNBM actively participates in global environmental exchanges and cooperative actions, contributing wisdom and solutions to building a beautiful shared home for humanity and demonstrating the responsibility of a central enterprise in the international arena.

Our actions · 2024

- Recognize and adhere to the Ten Principles of the UN Global Compact, actively contributing to the advancement of the United Nations Sustainable Development Goals.
- 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, and participate in launching the China Social Responsibility 100 Forum.
- We rely on the China Federation of Industrial Economics, China Building Materials 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.

The logo for UN Women, featuring the United Nations emblem and the word "WOMEN" in large blue letters.

In December 2024, CNBM signed the Women's Empowerment Principles (WEPs) of UN Women, solemnly committing to promoting global gender equality and women's empowerment. The company pledges to support and advance gender equality in the workplace and create a diverse and inclusive working environment.

China Jushi: The 30th Annual International Conference on Fiberglass (AICOF)

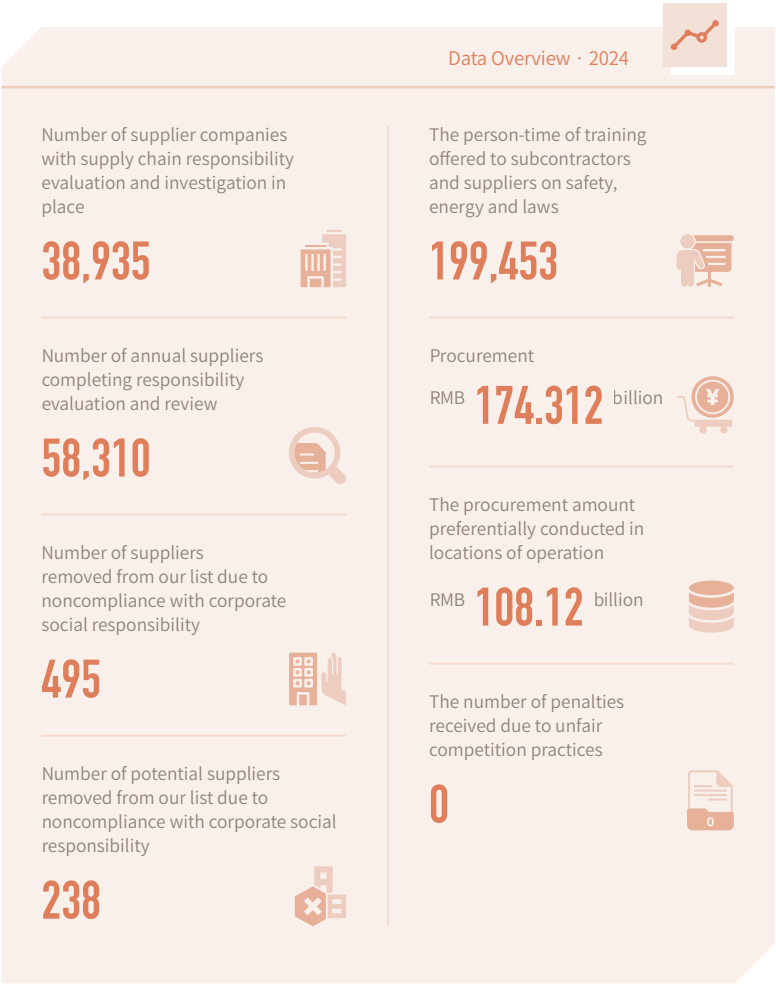
On October 22, 2024, China Jushi 30th Annual International Conference on Fiberglass grandly opened. Over 1,000 guests from more than 40 countries and regions gathered in Tongxiang to jointly maintain the industry ecosystem and explore a new sustainable future for the fiberglass industry. This year's conference established "Five Major Platforms" for global guests: the Opening Ceremony, Information Release Conference, Technical Lectures, Supplier Conference, and Bank-Enterprise Cooperation Exchange Meeting, facilitating the collision of ideas, building consensus, and meeting the diverse needs of customers. The "Three Releases"—Information Release, ESG Information Release, and Public Welfare Brand Release—directly highlighted key points and addressed hot topics, announcing China Jushi's most cutting-edge developments and demonstrating new quality productive forces. Among these, the ESG Information Release and Public Welfare Brand Release were launched for the first time.

BNBM: Conducting supplier capability co-building activities to enhance supplier ESG performance

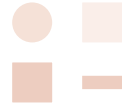
BNBM periodically collaborates with its suppliers to conduct ESG capacity-building activities. For example, Taishan Gypsum held a Supplier Strategic Cooperation and Development Conference titled "Synergizing the Value Chain, Achieving New Glories". BNBM Waterproof organized a Supplier Exchange Conference. Longpai Company engaged in technical exchanges with BASF. Through two-way communication, technical discussions, and leveraging their respective strengths, these initiatives enhance suppliers' technological R&D innovation capabilities, promote new product development and technological innovation, and expand cooperation areas. Simultaneously, they effectively help suppliers better understand ESG requirements, contributing to the construction of a more sustainable supply chain ecosystem.

Driving Development of Supply Chain

CNBM firmly implements the work requirements of the SASAC. It must courageously shoulder the responsibility of being a "Chain Leader", fully leverage its leadership and driving capabilities as the "National Team" in the field of inorganic non-metallic materials, further enhance the Group's influence and support capabilities across the entire industrial chain, and better fulfill the "Three Roles" of central state-owned enterprises.



Scan the QR code to watch the CCTV Finance Channel's "Dialogue" program, where Party Committee Secretary and Chairman Zhou Yuxian shares CNBM's insights and practices on "linking" up with the globe and expanding its "circle of friends"



Supplier Management

- The CNBM procurement platform is a comprehensive service platform integrating bidding, procurement and e-commerce. It provides supply chain enterprises with procurement sourcing and full-process electronic procurement services. The platform has 100,000+ high-quality suppliers in the building materials industry and 4,000+ registered bid evaluation experts.
- The Group's procurement 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. The Group has been ranked among China's Top 500 Enterprises for Creditworthiness for 8 consecutive years.
- We encourage suppliers to establish environmental management systems and prioritize those with standardized environmental management system certification. Through signing safety and environmental protection agreements, we require them to comply with national regulations and the Group's ESG management policies, implementing energy saving, water conservation, environmental protection, recycling, and low-carbon requirements in their production and operations.
- We strengthen supplier management by formulating detailed implementation rules for supplier management, strictly selecting and nurturing high-quality suppliers, incorporating social responsibility into the supplier evaluation system, and urging suppliers to fulfill their social and environmental responsibilities.

Green Procurement

- Adhere to green procurement and give preference to environmentally friendly products when purchasing raw materials and clean products when purchasing energy.
- When purchasing daily office supplies, we give preference to recyclable products and reject excessive packaging.

Providing High-quality Products and Services

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



Conducting Responsibility Study

Index System

CNBM continuously strengthens the construction of its social responsibility indicator system, clarifying division of responsibilities, consolidating accountability, and promoting the implementation of work.

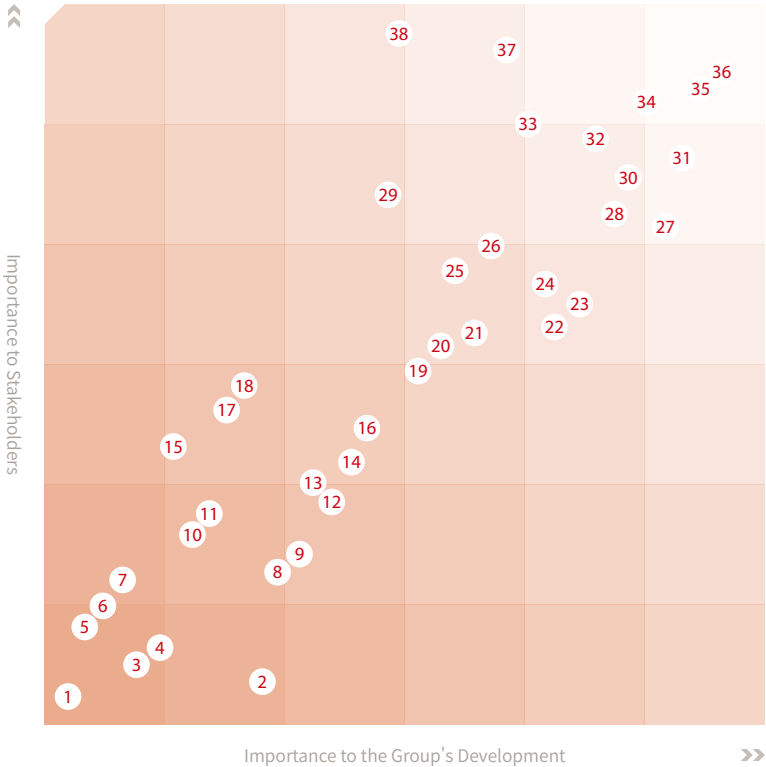


Theoretical Research

CNBM actively participates in theoretical research and the formulation of standards and rules in the field of social responsibility, jointly promoting a healthy ecosystem for social responsibility.

Topic Management

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



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

Strengthening Communication and Dissemination

China National Building Material Group Co., Ltd. pays close attention to the expectations and demands of investors, government, employees, customers, partners, relevant groups, communities, media, environment and other stakeholders, conveys corporate responsibility information through various forms such as the annual social responsibility report, the official WeChat account, the "Social Responsibility" section of the official website and the "Smart Use of Resources" enterprise open days, and strengthen information disclosure. We strive to maintain good communication and contact with various stakeholders, respond to public concerns in a timely manner, pass on the concept of responsibility culture, listen to the opinions and suggestions of stakeholders, and continuously improve the ability of responsibility communication in the virtuous circle of disclosure-communication-promotion, so as to improve the public's awareness and recognition of CNBM.



▲ CNBM publishes its first centralized sustainable development (ESG) report

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

Improve supervision and assessment

CNBM establishes a sound supervision, management, assessment and evaluation system for social responsibility work, enhances daily supervision and strengthen incentives and constraints, continuously improving the level and ability of social responsibility work.

Strengthen ESG work

CNBM attaches great importance to ESG and related work, promotes holding listed companies to implement environmental management requirements with high standards around ESG issues, actively performs social responsibilities, improves corporate governance, strengthens high-level ESG information disclosure, continuously improves ESG governance capabilities and performance levels, and enhances value recognition in the capital market. CNBM promotes overseas business institutions to take ESG work as an important part of their overseas operation management and major project implementation, enabling them to actively adapt to the ESG specifications and requirements of the countries and regions where they are located and strengthen ESG governance, practices, and information disclosure, continuously enhancing their competitiveness in the international market. In 2024, 13 listed companies of the group achieved "full coverage" of ESG reports for the first time.



CNBM launches the collection of 2024 ESG excellent cases at all levels, with a total of nearly 200 cases and over 300 images collected

ESG work performance	
CNBM was included in the S&P Global's Sustainability Yearbook (China Edition) and received the "Industry Top Improver" award	BNBM, Xinjiang Tianshan Cement, and China Jushi won the Tianma Award for Investor Relations Management of Chinese Listed Companies
CNBM and China Jushi have been selected for the "Chinese Listed Companies ESG · Pioneer 100 Index" list and the "Central Enterprise ESG · Pioneer 100 Index" list for two consecutive years	Ningxia Building Materials Group and Triumph Science & Technology Group won the Tianma Award for Outstanding Secretary of the Board in Investor Relations Management of Chinese Listed Companies
CNBM and BNBM were selected for "2024 Top 100 ESG Best Practices of Chinese Listed Companies"	BNBM was listed among the first batch of outstanding achievements of Central Enterprise Brand Leading Action
CNBM was re-selected for the "China ESG Listed Company Pioneer 100" list	"CNBM" ranked 48th on the list of "China's 500 Most Valuable Brands"
The case of "Deep Participation in the 'Belt and Road' Initiative to Build a Community of Shared Future for Mankind" of CNBM was selected for 2024 Outstanding ESG Cases of Chinese Companies	"BNBM" ranked 70th on the list of "China's 500 Most Valuable Brands"



Outlook

We will maintain the strategic determination of "fixing on the green mountains", closely focus on the established strategic objectives, continue to deepen reform and innovation, respect the market and the rule of law, respect entrepreneurs, carry forward the spirit of scientists, model workers and craftsmen, and make unremitting efforts to build a world-class materials industry investment group.

We will uphold the "vigorous and determined spirit of hard work", focus on improving the "five values", give full play to the role of the national team and main force in the non-metallic materials industry, adhere to the principle of green, low-carbon, safe and high-quality development, and contribute to accelerating the construction of a modern materials industry system.

We will maintain the tenacious drive to "blaze a new trail through brambles", continue to deepen the market expansion of "Overseas Rebuilding" and strengthen international exchanges and cooperation, actively participate in the "Belt and Road" Initiative, and jointly build a community of shared future for mankind with the internationalization process of CNBM.

Dreams may be far away, but they can be achieved through pursuit; although wishes may be difficult, they can be fulfilled with persistence. In the critical year of racing toward the fulfillment of the "14th Five-Year Plan" and formulating the "15th 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 and the Third Plenary Session of the 20th CPC Central Committee, and uphold the Party's overall leadership. Focusing on the theme of high-quality development and centering on our main businesses of non-metallic material manufacturing and capital investment, we will expand incremental growth, optimize existing assets, manage variables and enhance quality. We will continuously strengthen our core functions and boost our core competitiveness, accelerate the building of a world-class materials industry investment group, and better leverage our role in driving scientific and technological innovation, exercising industrial control, and bolstering security support. We will strive to be the "three vanguards", fight for the conclusion of the "14th Five-Year Plan" with high standards, vigorously propel the high-quality development of the group to a new level, and contribute more to advancing the Chinese modernization and achieving the great cause of building a strong country and rejuvenating the Chinese nation!

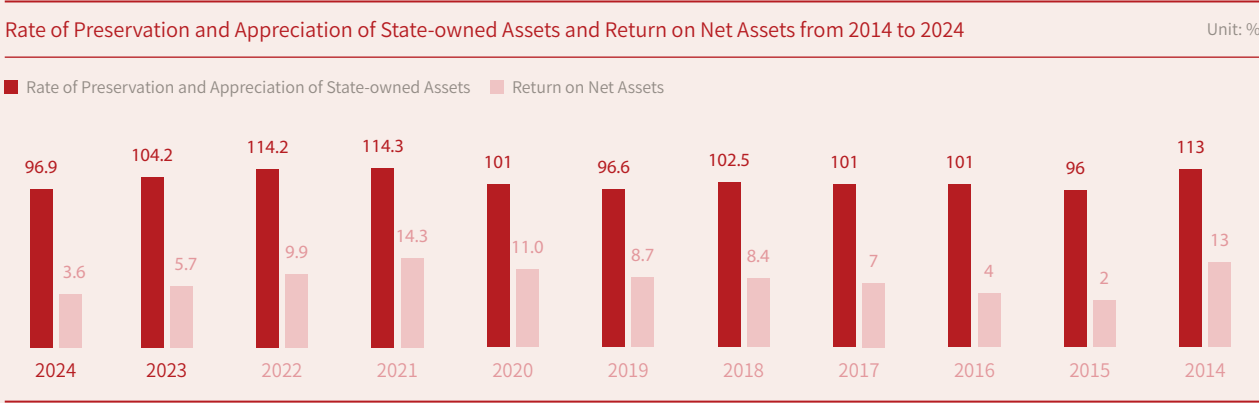


Ranking of Fortune Global 500 Building Materials Enterprises in 2024			
Ranking in 2024	Enterprise Name	Operating Income in 2024 (One million US dollars)	Country
307	China National Building Material Group	49088.8	China
284	Saint-Gobain Group	51830.3	France
443	CRH Corporation	34949	Ireland

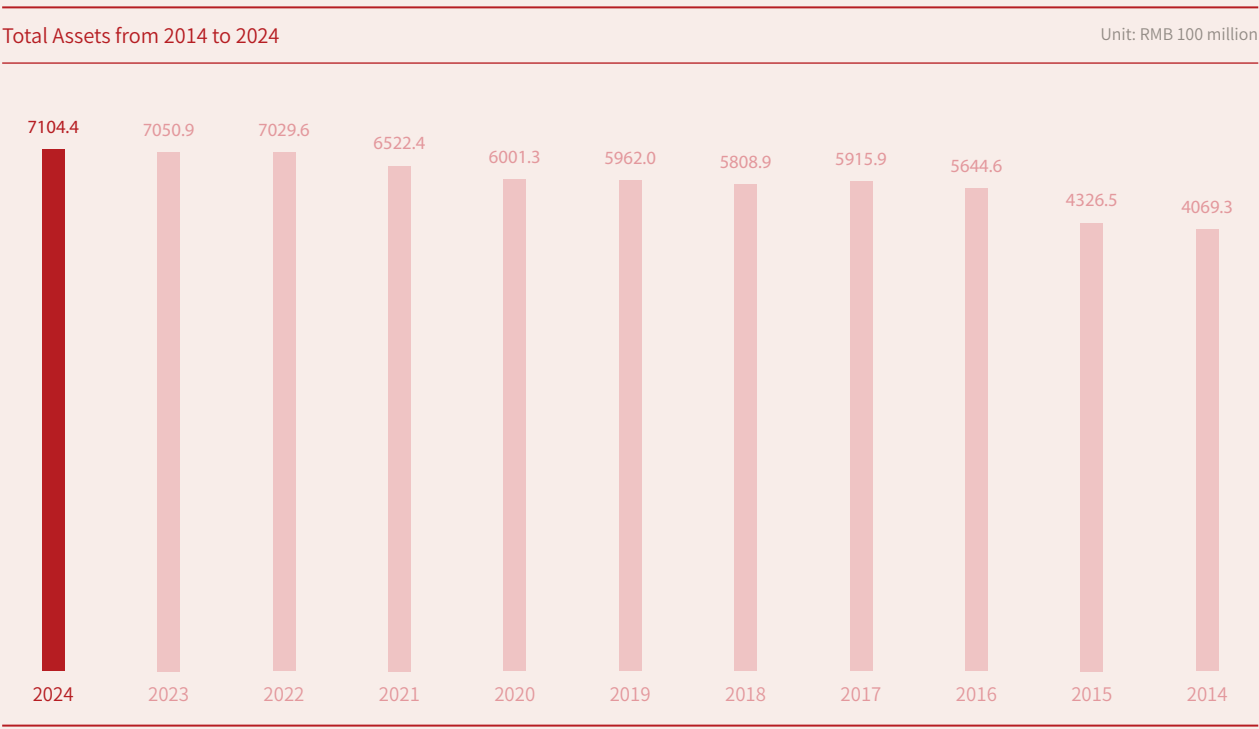
▲ Data source: Fortune Chinese website

Output of Cement from 2014 to 2024		Unit: 100 million tons
Year	Output of Cement	
2024	2.3	
2023	2.9	
2022	3.0	
2021	3.5	
2020	3.5	
2019	3.7	
2018	3.4	
2017	3.4	
2016	3.2	
2015	2.4	
2014	2.5	

Total Operating Income and Profit from 2014 to 2024			Unit: RMB 100 million
Year	Annual revenue	Total profit	
2024	3130.3	113.5	
2023	3475.1	168.6	
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	



Performance of Listed Companies in 2024					Unit: Yuan
Stock Name	Stock Exchange	Stock Code	Dividend per Share	Earnings per Share	
China National Building Material Company Limited	Hong Kong Stock Exchange	3323.HK	0.158	0.2830	
Xinjiang Tianshan Cement Co., Ltd.	Shenzhen Stock Exchange	000877.SZ	0.000	-0.0746	
Ningxia Building Materials Group Co., Ltd.	Shanghai Stock Exchange	600449.SH	0.210	0.5049	
China Jushi Co., Ltd.	Shanghai Stock Exchange	600176.SH	0.240	0.6107	
BNBM	Shenzhen Stock Exchange	000786.SZ	0.865	2.1590	
Sinoma Science & Technology Co., Ltd.	Shenzhen Stock Exchange	002080.SZ	0.225	0.5315	
Sinoma International Engineering Co., Ltd.	Shanghai Stock Exchange	600970.SH	0.450	1.1400	
Zhongfu Shenying Carbon Fiber Co., Ltd.	Shanghai Stock Exchange	688295.SH	0.000	-0.1400	
Ruitai Technology	Shenzhen Stock Exchange	002066.SZ	0.000	0.2469	
China Certification and Inspection Group	Shanghai Stock Exchange	603060.SH	0.114	0.2533	
Triumph Science & Technology Group Co., Ltd.	Shanghai Stock Exchange	600552.SH	0.050	0.1484	
Triumph New Energy Company Limited	Shanghai Stock Exchange	600876.SH	0.000	-0.9400	
Triumph New Energy Company Limited	Hong Kong Stock Exchange	1108.HK	0.000	-0.9400	
Sinoma Energy Conservation Ltd.	Shanghai Stock Exchange	603126.SH	0.005	0.0125	



Scientific and technological innovation



It won science and technology awards at or above the provincial or ministerial level from 2014 to 2024

Unit: in number

Year	Science and technology awards at or above the provincial or ministerial level	Including: National Science and Technology Progress Award
2024	81	1
2023	247	4
2022	166	0
2021	116	1
2020	109	0
2019	166	3
2018	231	1
2017	197	2
2016	173	2
2015	123	0
2014	117	1

Application and Authorization of Patents from 2014 to 2024

Unit: in number

Year	Newly Applied Patents	Including: Invention Patents	Newly Authorized Patents	Including: Invention Patents
2024	4500	2462	2920	1261
2023	5550	2531	4137	1358
2022	5978	2601	4911	1319
2021	4004	1820	3745	747
2020	4436	1821	2576	532
2019	3308	1638	1804	478
2018	2287	1056	1571	385
2017	2144	1039	1524	428
2016	2156	880	1793	455
2015	1568	566	1492	193
2014	1571	531	1381	106

Expenditure on Scientific Research Activities from 2014 to 2024

Unit: RMB 100 million

Year	Expenditure on Research and Experimental Development
2024	116.9
2023	136.3
2022	149.0
2021	147.2
2020	119.1
2019	95.9
2018	81.9
2017	59.3
2016	51.2
2015	40.9
2014	41.6

It hosted and participated in the formulation or revision of standards from 2014 to 2024

Unit: in number

Year	Total Number of Standards	Including: International	Including: Country	Including: Industry
2024	106	3	63	40
2023	44	3	20	21
2022	169	10	82	77
2021	130	4	84	42
2020	74	3	39	32
2019	88	0	52	36
2018	167	4	90	73
2017	122	4	90	28
2016	91	2	57	32
2015	62	2	36	24
2014	104	3	35	66

Accumulated Patents from 2014 to 2024

Unit: in number

Year	Number of Accumulated Patents	Including: Invention Patents
2024	28600	8167
2023	26490	6906
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

Income from scientific and technological innovation from 2014 to 2024

Unit: RMB 100 million

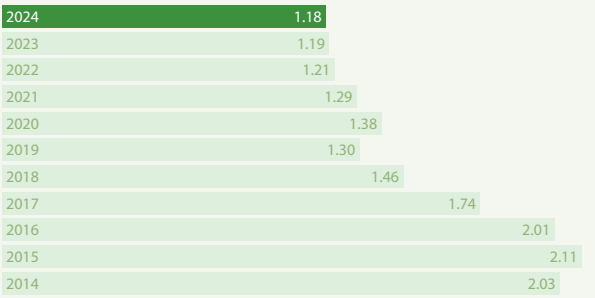
Year	Revenue from Scientific and Technological Innovation	Sales Revenue of New Products
2024	65.9	813.6
2023	60.3	918.9
2022	39.0	850.6
2021	34.7	810.6
2020	35.2	754.7
2019	28.4	577.6
2018	30.1	555.9
2017	16.6	468.5
2016	15.7	339.0
2015	11.5	256.5
2014	8.8	289.9

Energy conservation and environmental protection



Comprehensive Energy Consumption of Output Value per Ten Thousand Yuan from 2014 to 2024

Unit: Tons of standard coal/RMB 10,000



Comprehensive Energy Consumption per Ton of Cement from 2014 to 2024

Unit: kg of standard coal/ton



Disposal and Utilization Performance of Solid Waste from 2014 to 2024

Year	Consumption of Solid Waste (ten thousand tons)	Disposal Rate of Self-produced Solid Waste (%)
2024	9340	99.9
2023	10497	96.4
2022	10360	96.8
2021	13121	96.3
2020	17880	91.7
2019	14967	99.9
2018	9900	92.8
2017	15615	99.0
2016	14909	88.6
2015	7545	98.5
2014	7882	98.0

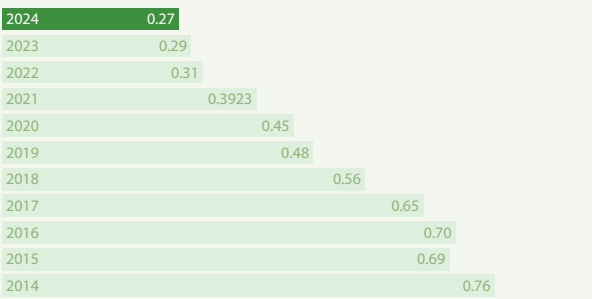
Emissions of SO₂ and COD with Output Value of Ten Thousand Yuan from 2014 to 2024

Unit: kg/ten RMB 10,000

Year	SO ₂ Emission with Output Value of Ten Thousand Yuan	COD Emission with Output Value of Ten Thousand Yuan
2024	0.25	0.04
2023	0.26	0.03
2022	0.27	0.05
2021	0.33	0.04
2020	0.42	0.04
2019	0.62	0.03
2018	1.09	0.03
2017	1.07	0.03
2016	1.60	0.05
2015	1.46	0.06
2014	1.36	0.06

Emission of Nitrogen Oxides per Ton of Cement Clinker from 2014 to 2024

Unit: kg/ton



Utilization Performance of Water Resources from 2014 to 2024

Year	Consumption of Fresh Water with Output Value of Ten Thousand Yuan (ton/RMB 10,000)	Consumption of Fresh Water per Ton of Cement Clinker (ton/tons of cement clinker)	Utilization Rate of Circulating Water (%)
2024	5.9	0.42	92.2
2023	5.5	0.38	96.8
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



Employee Overview (2014–2024)						Unit: people
Year	Total number of employees	Employees from foreign countries, Hong Kong, Macao and Taiwan	Employees from ethnic minorities	Employees with disabilities	Proportion of female employees in management (%)	
2024	198599	1643	7200	1302	22.7	
2023	207784	1638	6800	992	19.1	
2022	208857	965	7511	1340	17.6	
2021	206910	881	6199	1478	17.9	
2020	202844	1036	5725	1731	16.9	
2019	204763	483	5808	1729	16.2	
2018	208680	1059	5167	1697	18.7	
2017	221421	750	5985	1732	18.4	
2016	234511	1126	5964	1875	18.3	
2015	176610	841	3521	1449	17.2	
2014	176854	892	3120	2263	18.4	

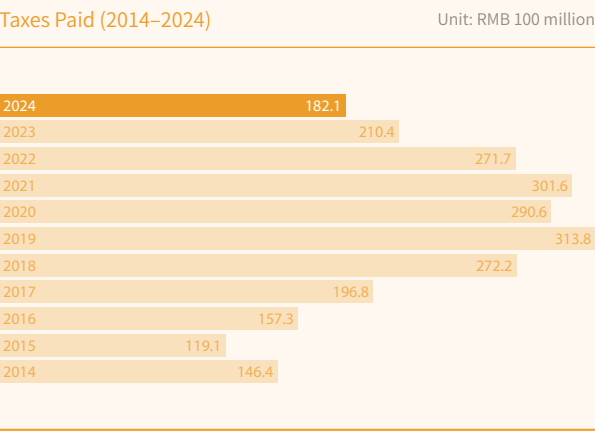
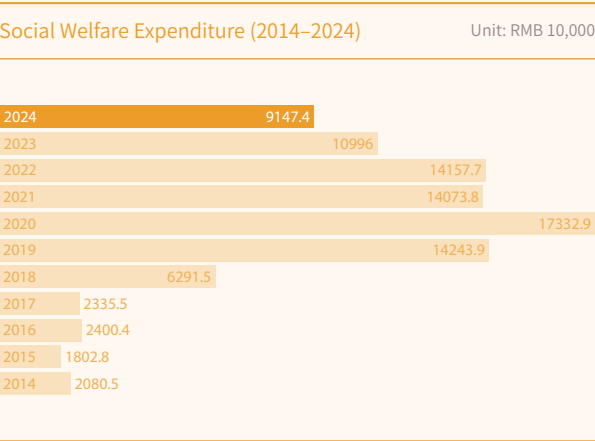
Progress of Enterprise Annuity Program (2014–2024)		
Year	Number of member enterprises offering enterprise annuities	Number of Employees Participating in Enterprise Annuities
2024	620	115311
2023	619	114385
2022	588	109323
2021	580	104210
2020	531	95554
2019	207	56174
2018	100	35644
2017	74	24093
2016	71	22871
2015	68	22165
2014	67	21750

Occupational Health and Safety Investment (2014–2024)		Unit: RMB 10,000
2024	299000	
2023	220000	
2022	160000	
2021	162000	
2020	151500	
2019	123697	
2018	108357	
2017	87032	
2016	79527	
2015	57249	
2014	43221	

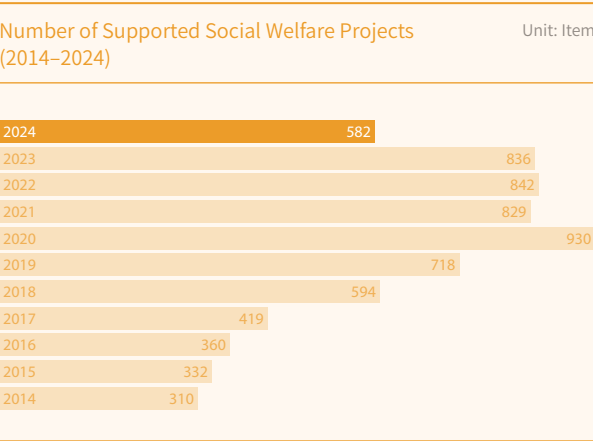
Labor Contract Signing, Social Insurance Coverage, and Labor Union Participation (2014–2024)				Unit: %
Year	Labor contract signing rate	Social insurance coverage rate	Percentage of employees participating in labor union	
2024	100	100	91	
2023	100	100	89	
2022	100	100	84	
2021	100	100	84	
2020	100	90	78	
2019	100	92	78	
2018	100	90	78	
2017	100	98	92	
2016	100	98	91	
2015	100	98	91	
2014	93	88	70	

Employee Training Performance (2014–2024)			
Year	Training Programs Organized and Attended	Training Hours (10,000 hours)	Employees Supported in Obtaining Degrees While Employed
2024	66887	388	1837
2023	69398	196	2279
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

Occupational Health and Safety Performance (2014–2024)		
Year	Recordable Injury Rate per Thousand Employees (%)	Number of New Cases of Occupational Diseases
2024	0.1	0
2023	0	0
2022	0.2	0
2021	0.2	0
2020	0.2	0
2019	0.4	1
2018	0.5	1
2017	0.5	2
2016	0.5	0
2015	0.9	3
2014	1.3	2



Educational Support (2014–2024)					
Year	Number of Demobilized Soldiers Hired	Total Scholarship Amount (RMB 10,000)	Number of Students Awarded or Supported	Number of Internship Bases Established	Internship Positions Provided (person-days)
2024	7	174	129	59	29058
2023	17	277	240	57	35540
2022	37	79	174	70	73582
2021	16	109	200	85	37005
2020	20	99	298	128	53145
2019	22	113	284	132	52689
2018	18	73	188	118	45464
2017	14	72	155	163	31519
2016	8	37	266	134	34030
2015	8	36	159	47	26586
2014	31	53	227	97	28619



Guarantee Employment Performance (2014-2024)				Unit: people
Year	Newly created jobs	Number of Fresh Graduates Hired	Number of Demobilized Soldiers Hired	
2024	25723	3439	8	
2023	50455	3421	26	
2022	50243	3067	21	
2021	35170	3375	2	
2020	22032	3667	24	
2019	27763	3890	22	
2018	26553	3626	141	
2017	29612	4727	139	
2016	22342	3129	23	
2015	16929	2473	10	
2014	23617	3848	46	

Volunteer Activity Organization (2014–2024)				
Year	Number of Volunteer Groups Established	Volunteer Activity Support Investment (RMB 10,000)	Number of employee volunteers	Volunteer Service Hours
2024	129	92	10991	25728
2023	157	129	12668	37908
2022	216	184	10935	63257
2021	221	180	11517	74568
2020	192	190	10121	49220
2019	213	2219	10343	40192
2018	189	126	6853	44445
2017	335	363	5334	25164
2016	112	344	5646	28157
2015	56	191	2187	14840
2014	65	145	3400	9418

Indicator Index

Catalogue of Report	Sustainable Development Goals (SDGs) of United Nations	GRI Standards of Sustainable Development Reports (G4)	Guidance on Compilation of Social Responsibility Reports in Chinese Enterprises: Non-metallic Mineral Products Industry (CASS-ESG6.0)
Report Norms	-	2-1-a、2-1-c、2-2-a、2-3-a、2-3-c	P1.1、P1.2
Chairman's Address	-	-	P2.1
About Us	-	2-1-a、2-1-c、2-6、2-7-a、2-9、201-1	P3.1-3.3
Responsibility Focus			
Responsibility Focus I: Moving Towards Innovation, Empowering New Quality Productive Forces	SDGs7、SDGs9、SDGs11、SDGs12、SDGs16、SDGs17	2-6、201-1、203-2	E1.1.19、S3.3.1
Responsibility Focus II: Global Rebuilding, Advancing the Vision of a World-class Enterprise	SDGs1、SDGs7-12、SDGs16、SDGs17	2-6、201-1、203-2、303-1、303-2	-
Modern Governance · Striving for Progress in the Spirit of the Times			
Outstanding Performance	SDGs9、SDGs11、SDGs12、SDGs17	201-1	-
Precision Management	SDGs12、SDGs16	-	-
Deepening Reform	SDGs16	-	-
Guidance of Party Building	SDGs4	205-2、205-3	G2.1.1、G2.1.2、G2.1.7
Innovation Leadership · Creating New Value for a Sustainable Future			
Innovation Ecosystem	SDGs7、SDGs9、SDGs11、SDGs12、SDGs17	201-1	S2.1.1-2.2、S2.1.11-1.12、S2.1.4、S2.1.6
Achievements of Technological Innovation	SDGs7、SDGs9、SDGs11、SDGs12、SDGs17		E1.1.19、S2.1.3、S2.1.8、S2.1.10、S2.1.13
Digital Transformation	SDGs7、SDGs9、SDGs11、SDGs12、SDGs17	203-2	S2.1.14
Leading Industry Upgrades	SDGs7、SDGs9、SDGs11、SDGs12、SDGs17	203-2	E1.1.19、S2.1.10-12
Excellence in Products · Advancing Green Development to Protect Beautiful Landscapes			
Green Services	SDGs7、SDGs9、SDGs11、SDGs12、SDGs13、SDGs15、SDGs16、SDGs17	301-1、301-3、302-1-b、302-4、303-5、305-1-3、305-7、306-1-3	E1.1.7-1.8、E1.1.11、E1.1.13、E1.1.16、E2.1.5-1.6、E3.1.2、E3.1.4-1.5、E3.2.1、E3.2.3、E3.2.4、E3.3.2-3.3、E3.3.8、E3.3.10、E3.3.13
Green Production	SDGs4、SDGs7、SDGs9、SDGs11、SDGs12、SDGs13、SDGs15、SDGs16	101-1-4、304-2、304-3	E2.1.12、E2.3.1-3.2、E3.1.6
Green Operations	SDGs4、SDGs7、SDGs9、SDGs11、SDGs13、SDGs15、SDGs16、SDGs17	101-1-4、304-3	E2.1.1、E2.3.1-3..3、E2.4.1、E3.3.2、E3.3.8

Catalogue of Report	Sustainable Development Goals (SDGs) of United Nations	GRI Standards of Sustainable Development Reports (G4)	Guidance on Compilation of Social Responsibility Reports in Chinese Enterprises: Non-metallic Mineral Products Industry (CASS-ESG6.0)
Excellence in Brand · Acting with Responsibility to Foster a Harmonious Society			
Safety and Prudence	SDGs4、SDGs12	403-2	-
Employee Growth	SDGs1-5、SDGs8、SDGs10、SDGs12	2-7、2-19-a、201-3、401-1、401-2、403-1、403-3、403-5、403-6、404-2、405-1	S4.1.1-1.7、S4.1.11、S4.1.12、S4.2..2、S4.2.4、S4.3.1-3.3、S4.3.5
Open Cooperation	SDGs4、SDGs8-12、SDGs17	-	-
Common Prosperity	SDGs1-6、SDGs8-10、SDGs17	203-1、203-2	S1.1.1-1.5
Good Deeds	SDGs1-5、SDGs10、SDGs17	203-1、203-2	S1.2.1-1.4、S1.2.6
Sustainability management			
Strengthening organizational leadership	SDGs16	2-13、2-14、2-17、2-18	G1.1.1、G1.1.3
Improve the system and mechanism	SDGs16	2-16	G1.1.1-1.2、S3.1、G1.1.1、G1.1.6、G1.1.7
Deepen the practice of responsibility performance	SDGs12、SDGs17	3-1、3-2、308-1、308-2、414-1	S3.1.1-1.4、S3.3.1、S3.3.2、S3.3.6、G1.1.9-1.10、G1.2.3
Strengthening Communication and Dissemination	SDGs17	2-16、2-29	G1.3.1-3.2、
Improve supervision and assessment	-	-	S3.1、G1.1.5
Strengthen ESG work	-	-	-
Outlook	-	-	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 2024 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 2024 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 (2025) 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 Party Building Department (Office of the Trade Union) takes the lead in setting up a report preparation working group, various functional departments and grassroots units providing content and reviewing relevant sections, 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, strengthen stakeholders' communication, improve responsibility management, and enhance brand value, with clear positioning in functional values; identify substantive issues according to national macro policies, group development strategies and stakeholder expectations; promote 13 subsidiary listed companies to independently publish their own reports, establish a multi-layered and diverse reporting system; it is planned to publish the report through the official website, and participate in the "Smart Use of Resources Day" and "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, scientific and technological innovation, occupational health management, safety production, research and development and application of environmental protection technologies and equipment, and energy-saving technologies and equipment, resource and energy conservation, green material selection, and green manufacturing; the report is concise in typesetting, illustrated with pictures and texts, flexible in expression, rich in reading experience and excellent in readability.

Integrity (★★★★★)
The main content of the Report discloses 94.37% of the core indicators of the industry from the perspectives of "Modern Governance · Striving for Progress in the Spirit of the Times", "Innovation Leadership · Creating New Value for a Sustainable Future", "Excellence in Products · Advancing Green Development to Protect Beautiful Landscapes", and "Excellence in Brand · Acting with Responsibility to Foster a Harmonious Society" with outstanding integrity performance.

Balance (★★★★★)
The Report discloses negative data such as "recorded rate of work-related injuries for over 1,000 people", "new cases of occupational diseases", "number of suppliers terminated for CSR non-compliance", substantive complaints due to disclosure of customer information", and "number of penalties for unfair competition practices". It also briefly describes safety risk identification and hazard mitigation efforts, demonstrating excellent balance performance.

Comparability (★★★★★)
It is disclosed in the Report that the comparative data of 62key indicators such as "cement output", "total assets", "scientific and technological innovation income", "social public welfare expenditure", "employees with disabilities", "occupational

health and safety investment", "comprehensive energy consumption with output value per 10,000 yuan", and "Recirculated Water Utilization Rate "for eleven consecutive years and a horizontal comparison is made on indicators such as "Ranking 13th in the Central State-owned Enterprise Responsibility Management · Pioneer 30 Index" with excellent performance in comparability.

Readability (★★★★★)
The Report adopts a topic-oriented framework structure, systematically elaborating on the enterprise's responsible actions and achievements in areas such as Party building guidance, corporate governance, scientific and technological innovation, green and low-carbon development, safety production, employee care, partnership collaboration, and social contributions. The cover design features high-definition, real-scene images that reflect the characteristics of the enterprise, enhancing its recognizability. Chapter spreads quote key national meeting spirits and important speeches by national leaders, outlining the enterprise's actions to elevate the stance of responsibility fulfillment. Sections such as "Data Overview for 2024", "Honors · 2024", "Our Actions · 2024", and "Our Achievements" are included to facilitate quick understanding for readers. QR codes are embedded throughout to extend the Report's content, strengthening its communicability and engagement. With concise language, rich case studies, and exquisite design, the Report demonstrates outstanding readability.

Innovation (★★★★★)
The Report opens with dedicated sections titled "Moving Towards Innovation, Empowering New Quality Productive Forces" and "Global Rebuilding, Advancing the Vision of a World-class Enterprise", highlighting the enterprise's key initiatives and achievements in innovation-driven development and international responsibility fulfillment, showcasing the accountability of a central state-owned enterprise. Third-party endorsements are extensively cited to present the enterprise's responsible performance in a testimonial format, enhancing the Report's credibility and communicative impact. A dedicated sustainability (ESG) report launch event was organized to amplify the Report's dissemination effectiveness and engagement value, demonstrating outstanding innovativeness.

Comprehensive Rating (★★★★★+)
According to the evaluation of the rating team, the 2024 Sustainability Report of China National Building Material Group Co., Ltd. has achieved a five-star rating in all aspects, including procedure, materiality, integrity, balance, comparability, readability, and innovation. It is comprehensively rated as "Five-Star Plus", making it a model example of corporate sustainable development reports.



CNBM's Sustainability Report has received a five-star rating for seven consecutive years, and has achieved the "Five-Star Plus" rating for the sixth consecutive year.

IV. Suggestions for Improvement
Strengthen the depth and breadth of stakeholder engagement to further enhance the process management of the report.

黄群慧
Vice Chairman of Committee of Rating Experts

张青
Leader of Rating Team

Expert of Rating Team



Scan QR code to view corporate rating file

Issued on: June 26, 2025

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 sustainability report of China National Building Material Group is:

Overall evaluation of the report: ☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very Poor

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

Suitability of Page Number: ☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very Poor

Aesthetic Degree of Design: ☐ Very good ☐ Good ☐ Average ☐ Poor ☐ Very Poor

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

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

☐ Market Performance ☐ Technological Innovation ☐ Energy Conservation & 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 ☐ Talent Development ☐ 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 sustainability 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 ☐ Employee 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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Considerations for the publication environment of the report

Paper: Printed on environmentally friendly paper

Ink: Environmentally friendly ink is adopted to reduce air pollution

Designed and produced by:  CREATIVITY CLOUD



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Chinese Expert Committee on CSR Report Rating