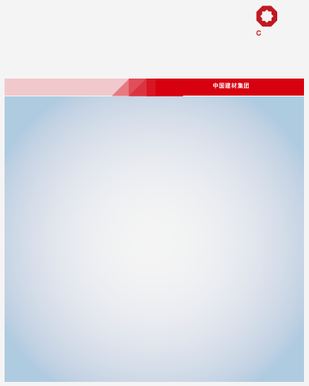
CNBM

China National Building Material Group Co.,Ltd.

SUSTAINABILITY REPORT 2020



Entities Covered by the Report

Period Covered by the Report

Basis for Preparation

Data Sources

QA

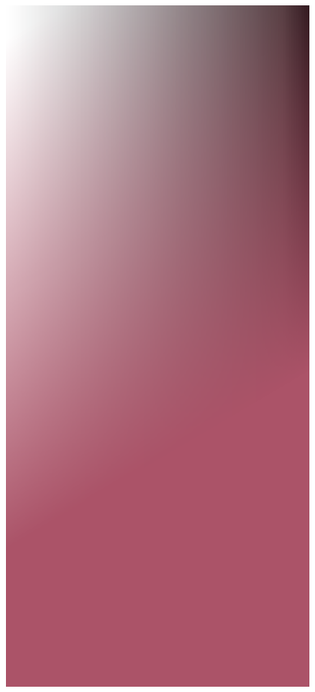
Report Availability

Reporting Cycle

specified in the text).

to indicate information from external

all monetary amounts are expressed in



destined to be an extremely extraordinary year. For China,

WE AIM TO CREATE A BETTER WORLD WITH MATERIALS ON OUR JOURNEY FORWARD

Chairman's Address

About US

Company Profile

177

which 2 are at abroad. The Group is the largest supplier of cement, ready-mixed concrete, plasterboarc

glass, high-performance carbon fibers, lithium battery separators, ultra-high voltage electrical porcelain

As a scientific and technological group, CNBM possesses the top strength in building materials and n
materials. CNBM takes possession of 26 national-level scientific research and design institutes, 38 C

(technical) research centers and 17 standardization technical committees with more than 14 463 pater
National Awards for Scientific and Technological Progress and 4 prizes from China Grand Awards for In

competitiveness, capability of innovation, power of control, influence and risk resistance ability, and c

CNBM is a demonstration pilot corporation for the merger and reorganization of national enterprises, the development of mixed

Commission of the State Council. Its member enterprises are pilot enterprises for employee stock ownership in mixed ownership

standard operation of the board of directors and the needs of the work and the expertise of the external directors, of which the Remuneration and Appraisal Committee and Audit and Risk Management Committee consist solely of external directors.

Zhou Yuxian	Li Xinhua	Cao Jianglin

Yang Ya	Liu Xinquan	Xu Wenrong	Xia Xiao'ou	Chen Niangao	Sun Lishi
External Director	External Director	External Director	External Director	External Director	

Guang Zhaoyu	Lu Xinhua0 BDC BTTT1 1 Tf 0 0 21.1 [illegible] scnRelati1.1 100.52 Tm(GeneCounselmist)TjETEMC Artifact BBo212 LF51 11.512.52.5 150.0 Layout BDC q0 0 110.551 0. reW nq0 gGS1 gs0 TL5Fm1 DoQEMC Artifact BB

Basic building materials 1

Cement

mixed concrete, both of which rank first in the

Leading Enterprises

Ningxia Building Materials Group Co., Ltd.,

Float Glass

high-quality float glass reaches 37.05 million

Leading Enterprise

2

Lightweight Building Materials and Waterproof Materials

, ranking first in the world. We

boards, external energy saving and thermal insulation systems with fiber cement siding, and

Leading Enterprises

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

Wind Turbine Blades

level wind turbines every year, ranking first in the

in Funing, Pingxiang, Handan, Xilinhot, Hinggan

Jiuquan, Baotou, Hami, Yuxi and Anyang, a

Leading Enterprise

Fiberglass

The annual production capacity of fiberglass is 3.013 million tons, ranking first in the world. We

fiberglass and HSHM fiberglass with proprietary

Leading Enterprises

Lithium Battery Separator

Leading Enterprise

Sinoma Lithium Battery Separator Co., Ltd.

Carbon Fiber

Leading Enterprise

Artificial Crystals

Advanced Ceramics and Artificial Crystals

ceramics, which have excellent temperature

industry and other fields. Meanwhile, we have

Leading Enterprise

Display Materials

China. The whole industrial chain of 30μm-70μm ultra-thin flexible foldable glass (UTG)

Leading Enterprise

Leading Enterprises

Engineering & technical services 3

Engineering & Technical Services

covering 75 countries. We are now expanding our market shares in such fields as new glass,

party inspection and certification body in China.

Leading Enterprises

Material Test & Certification Group Co., Ltd.

Market Perforamnce

With sheer endeavors, we pulled off the 13
2020. In the face of extremely complex and severe economic

economic downturn and demand fluctuation, overfulfilled the

600,13

394.1

Total profits RMB

30.61

Taxes paid RMB

29.06

Proud
Results

brought out remarkable synergy effect.

profits, up 32% year on year; and RMB
20.14 billion of net profits, up 35% year

profit", and made every effort to stabilize the price and expand the quantity

output of special cement reached 5.74 million tons. Moreover, CNBM's low-heat

supply chain management and edge computing platform. In terms of green technology: low-energy green firing technology and equipment,

coal consumption of ≤94kg/tcl and clinker electric power consumption of ≤ 42kwht; control the collection of dust, sulfur dioxide and nitrogen oxide at 5 mg/nm respectively; achieve a substitution rate of 30% for alternative fuels; set the number of staff members engaged in cloud service + intelligence to be 65; reduce the carbon dioxide emission per ton of cement to 0.60t; integrate the plant with

Data Review 2020

80

20
%

Empowered by Reform

73.2-meter Blades (GW73.2) Manufactured by Sinoma Blade

management to capital management, set up an excellent team of equity directors, and truly

in five categories,

Year Reform Plan, and defined 58 key reform tasks in eight aspects. By the end of 2020, the Group had possessed three demonstration enterprises of scientific and technological

include the first 70 candidates in the

field of environment inspection.

define 8 incentive tools in 5 categories.

number of management staff was reduced by 157 or 1.2%.

the external environment, laying a solid

Lean Operation

cooperation projects of China National Geological Exploration Center

"Quality control at the source" performed by Sinoma Pingxiang Cement Co., Ltd.

ex-post quality management to whole-process control and preventive quality

source", Sinoma Pingxiang Cement Co., Ltd. has effectively improved its product

Jiangsu, Zhejiang, Anhui, Jiangxi and Shanghai.

Intensified Organization

we reduced 8 of the 10 target indicators by executing the "2422" reduction program, e.g., reducing the accounts receivable by 0.3%, inventory by 7%

set the personnel quota of 17 departments to be 100 to streamline the structure;

special rectification, focused on specific audits in key areas, achieved full coverage of the accountability system for violations, and effectively improved the ability to

"Precision Management" (intensified organization, fine management, and lean operation) of

effectively promoted its transformation, upgrading and high-quality management and made

Demonstration Unit of Collective Wage Negotiation in Gansu Province, Model Home of Staff

5,446
times

154,000
man-times

2,835
times

70,000
man-times

Data Review 2020

100
%

100
%

100
%

Fine Management

efficiency increase. Specifically, China National Building Material Company

of process index and management level; the number of registered cars on "Vehicle calling" platform of Ningxia Building Materials Group has increased 000 to 370

Auxiliary Materials Yard of the Second-line Project of Yongdeng Qilianshan Cement

"Theme Party Day" and monthly exchange meetings to publicize and interpret the Party

on-site exchange; built characteristic cultural exhibition halls to show its development

taking "service improvement, quality assurance, cost reduction and efficiency increase"

key problems such as energy saving, quality improvement and efficiency increase, thus

Innovation Management

As the only central enterprise in the field

	3
	2
	8
	17
	10
National Scientific Research Institute	26
	7
	33
	4
	409
	24
	10
	6
National and International Scientific and Technological Cooperation Demonstration Base	3

scientific research

Guidance on the Group's External

structure and expert consultation

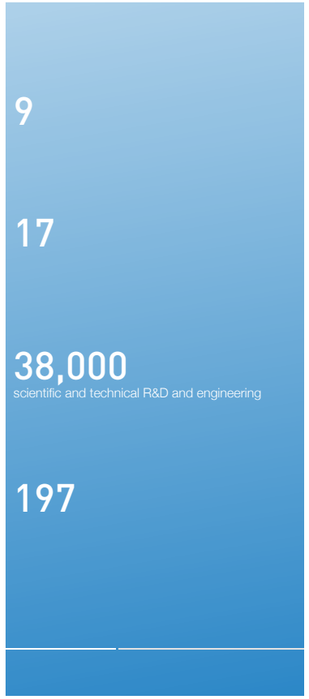
initially explore the formation of

Institute Corporation Ltd. focuses on "four-in-one" of scientific research, design, industrial manufacturing and engineering services, and vigorously promotes innovation in technology, management, systems and business models, actively expands new fields and new business models, and explores and cultivates new economic growth points. At present, it already has a national enterprise technology center, a internationally competitive, inorganic materials field with cement as a characteristic, science and technology service enterprise.

scientific and technological innovation talent team with building materials characteristics courage to overcome difficulties.

enthusiasm of scientific researchers, further improve the mechanism of talent introduction, training and use, incentive protection and flow configuration, create a cultural atmosphere

Data Review 2020



Laboratory staff of Hunan Shaofeng South Cement Company Limited

China". We have developed BIM technology, artificial intelligence at the edge of cement,

a 65.6% coverage rate of independently established operation management systems, 67

65.6%

67

3

promotion of business synergy, "cement + Internet", and also reflects the development

"CNBM's 'Vehicle calling' logistics platform explores a better prototype of digital business model, which is highly complementary to the existing logistics system of central enterprises, realizes the system linkage between the logistics industry and the manufacturing industry, and achieves the combination of three chains of industrial chain, logistics chain and capital chain."

— Weng Jieming, member of the Party Committee and Deputy Director of SASAC, State Council

80

"We have built a package of subsystem projects such as situation perception and embedded computing. At the same time, we have introduced innovative applications and technologies such as full-process logistics systems and low-latency 5G networks to enable the interconnection of intelligent equipment, intelligent systems and people. Our current network availability rate has come to 98.6%."

— Yu Yadong, General Manager of Information Technology Department of China Jushi

External joint innovation

research projects, talent exchange	exchange and win-win cooperation	break through the technology of vortex fan first fully automated cassette prefabricated

expenditure on research and experimental

completed the annual target of 9 scientific

Sichuan-Tibet project, vortex fan blades

of domestic carbon fiber, formulated and

As a pillar industry of new materials, carbon fiber is a key strategic material for national

has systematically mastered T300, T700 and T800 thousand-ton technology and

in 2017. At present, CNBM Group has invested in Xining to build a project with an annual production capacity of 10,000 tons of high-performance carbon fiber and supporting raw

materials industry, enhance the independent control of the domestic carbon fiber supply chain and the international competitiveness and influence of domestic carbon fiber.

6.3

27

1,666

2,117.3
MW

Ningxia Saima practices the concept that "lucid waters and lush mountains are invaluable assets" in real earnest by implementing the renovation of the kiln head bag-filter dust collector, the modernization of the denitration system of clinker production line and the coordinated disposal of domestic waste, and strictly controlling pollutant emissions. All finished and semi-finished products and raw materials are put into storage and closed management.

Ningxia Saima continues to improve the plant environment, build ecological parks and vegetable patches for employees, build itself into a garden-style mill, and explore and carry out experimental activity about the disturbance of production management to the surrounding environment and animals. The synergy has taken root among harmonious coexistence between humans and wild animals. All these efforts led to its awarding of Green Factory granted

Zhou Yuxian requested the organizations to carry out the enterprise-wide identification and management of environmental hazards at the earliest

central inspection of ecological and environmental protection, and effectively supervise and rectify those reported by the inspection task force. In addition, it also sent a special investigation team to the front line to conduct comprehensive investigation and verification work. With this effort to

u o

comprehensive energy consumption per RMB 10,000 output value, nitrogen oxide emissions and sulfur dioxide emissions have been reduced by 25%, 35% and 58% respectively, far

optimization, motor efficiency improvement, grinding system optimization and intelligent

Data Review 2020

83.0

290
million tons of carbon dioxide emissions

12,000
tons of sulfur dioxide emissions

91.7

generation, and high-temperature tail exhaust fan, with the standard coal consumption of clinker reduced by 2kg. Ningxia Building Materials' second generation production line with an output of 5,000 tons/day in Hongsibu District has six combined features of "intelligent warehousing, smart laboratory, smart loading, kiln grinding expert system, distributed

20% respectively compared with the first generation production line. Qilianshan Cement worked hard to overcome the influence of altitude by investing RMB 260 million in energy

annually, showing extremely significant economic effect of coal saving. The new nano Tianshui has reached expected cooling effect, reducing heat loss and making important

design, production, packaging, sales and recycling. We work to offer reliable, green and low-carbon building materials to our customers, and conduct extensive activities for the

development of cleaner energy in China. For the first time, CNBM's low-heat cement has

Data Review 2020

1,639

protection reminders on external packaging

89,000
tons of packaging materials used for finished

upgrading, and facilitate the application of high-end series of fan blades, thin-film solar

quality and safety in transportation is ensured, we actively promote simplified packaging

BNBM

coating, mineral wool board, exterior

Sinoma Tech

offers excellent features such as high

Southwest Cement

TriumphScience & Technology

glass boasts excellent heat reflection

Sinoma Energy Conservation

China Composites Group

rate, water flux and other indicators

2,953

Professional technical services

Ecological value-added services

and carry out extensive activities

built 27 production lines for such

annual disposal capacity of 2.71

project of six sets of waste incinerator's

870 tons per day in Linjiang, Hangzhou

Employee Care

employees, expand the channels of talent cultivation, unblock staff development channels, and constantly improve the sense of

203,000

1.52

22,000

11.0

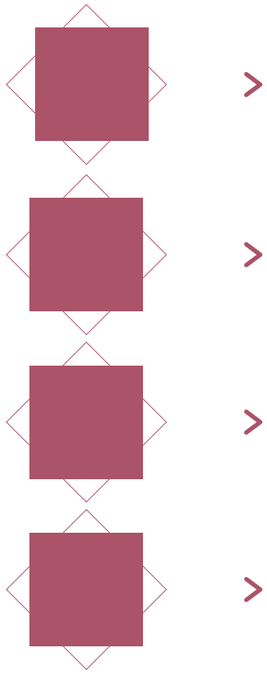
Response to SDGs

Employee development

We uphold the development concept of talent first, advocate that employees "spend

discovering a large number of young technical experts and young job experts. China Jushi

Mountains" won the excellent award of "The First Central Enterprises Practicing Socialist Core Values Micro Video". China National Geological Exploration Center organized young



>	Lenience, tolerance, flexibility Loyalty, affinity and cohesion
>	Learning capacity, market awareness, professional ethic, expertise, and high ideological level Focus on policies, overall situation, accountability, contribution, practical work, effectiveness,
>	
>	Behave meticulously, work meticulously, exercise power meticulously, make friends

Employee rights and benefits

benefits

competitive salaries and benefits and full payment of five-year insurance and one fund,

open work norms and other systems, in-depth promotion of factory affairs open and

participation, expression and supervision. We fully play the role of a bridge of labor

staff representatives and formed 4,204 proposals, which were replied and resolved in a

Data Review 2020

163,000

865

system of congress of workers and staff

Data Review 2020

100

90

Employees' hapiness

We attach great importance to the caring and helping of the employees in difficulties,

to solve the actual difficulties of employees, so that the majority of employees can effectively feel the warmth and happiness from the "big family" of the company.

Data Review 2020

9,101

special and difficult situations

11,459,000

spent on the employees in special and difficult

On the eve of the 2020 Spring Festival, Zhou Yuxian, Secretary of the Party Committee and Chairman of the Board of Directors, Sun Lixi, Deputy Secretary of the Party Committee, Staff Group understood in detail their illnesses, medical expenses and practical difficulties at home, expressed their gratitude to the Group for their constant concern and also said they would face the difficulties with optimism and live positively. The money used for the support came

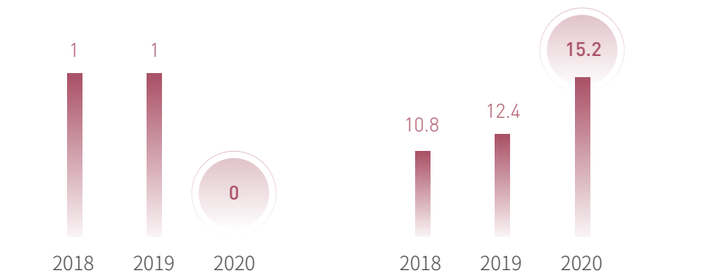
Data Review 2020

2,162,000

313

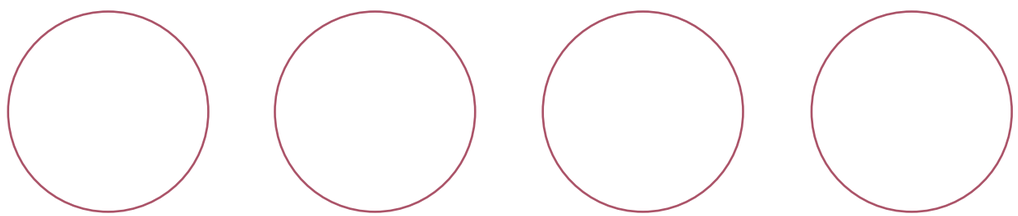
and equip employees with the necessary protective equipment to effectively strengthen

Diseases, explained the prevention methods of occupational diseases, analyzed typical



footprints, writing a colorful life in their youth, making extraordinary performance in ordinary positions with a sunny and positive

suffered from plateau reactions during the May Day holiday to help the border defense; Wang Siwen, who is a workaholic in the African continent - Geological Exploration Center Jiangsu Headquarters ; Chen Shuyong of Bengbu Glass Industry Design who is down-to-earth and endeavor in the front line of scientific research ...They are the best CNBM people in the eyes of customers,



Exploration Center of Building

Import & Sinoma Pingxiang

Openness and Cooperation

expedites the cultivation of international economic cooperation and new competitive advantages. By the end of 2020, it has invested in more than 40 projects across 27 countries, including 11 overseas fixed asset projects with a completed investment of RMB 1.03 billion, accounting for 85.7%; and overseas equity investment with a completed investment of RMB 170 million, representing 14.3%.

Data Review 2020

185

76.194
million of total overseas tax

136,000

24,393

0

services at a steady pace, and expands local operations in the markets it serves. As of

in 75 countries around the world.

participation in exhibitions hosted by international marketing platforms and other methods for publicity and promotion to make steady

The MK3 project in France sits on Martres, some 65 kilometers southeast of Toulouse. With demanding construction requirements and difficulties, the factory characterized by many interfaces, complex pipelines and narrow construction space required to be modernized without affecting the production of the pre-existing production line. The project used UAV laser scanning to acquire the structure data of the old factory, generate a point

Taking France as the gateway to more European markets, CBMI Construction maximizes the resource advantages of the MK3 project to develop

to expand new practices and break new grounds from a new starting point for high-quality development.

"Safe, stable, amazing, exciting and extremely challenging, the smart lifting technology for rotary kiln once again proves that the MK3 project undertaken by CBMI Construction in France is the most correct choice Lafarge has made. We expect CBMI Construction to make more great achievements during the subsequent construction process."

——Lafarge Project Manager
Didier Michel

Fighting the Battle of Poverty Alleviation

——CNBM's Five-year Poverty Alleviation Journey

The Case of CNBM's Paired Assistance to Jingyuan County, Ningxia, Called "Spring

Group Office of Poverty Alleviation and Development (now National Administration

All Efforts to Win the Battle against

actively explored new models for targeted poverty alleviation. Since the designated

poverty, covering 7
has dropped from 26.7% in 2014 to zero now.

expansion of poverty alleviation achievements with rural revitalization, so as to make

Data Review 2020

652,000

Poverty Alleviation Efforts & Assistance

in five designated districts and counties for poverty alleviation, and implemented 182

structure medical technology complex buildings and health center

A total of RMB 25.753 million has been invested to build "China

non-Party members to carry out "six-one" activities in poverty-

An assistance of RMB 1.727 million has been introduced, and

718 grassroots cadres

Data Review 2020

266.6

369

quantitative indicators for social responsibility management

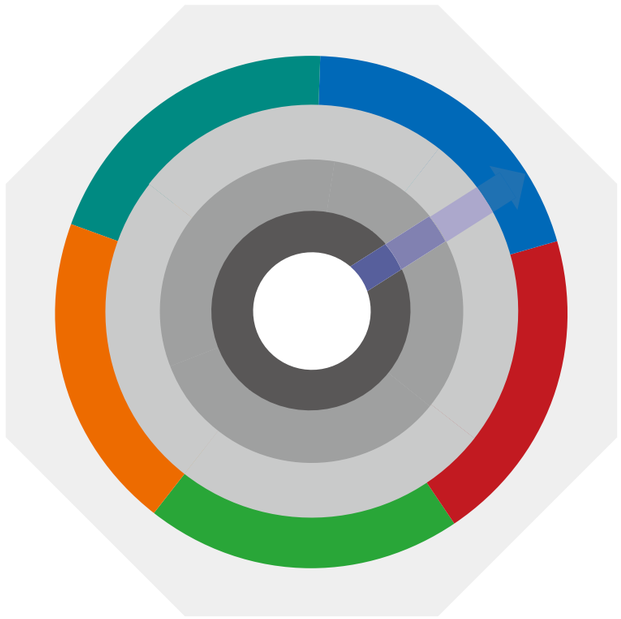
6th

among Top 300 of China's Corporate Social Responsibility Development Index (2020)

Value of responsibility

and corporate citizenship, we listen and respond to the expectations of stakeholders,

Social Responsibility Model of CNBM



According to the Group's development strategy and the expectations of stakeholders, we planned five social responsibility frameworks: "market performance, technological

finalizing the core topics of social responsibility report this year.

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Social Responsibility Planning 2018-2020

Value of Responsibility

Deepening the concept of responsibility

Deepening the integration of responsibility and business management

Deepening the mechanism for employee responsibility fulfillment

Responsibility Management

Strengthening the top-level design of social responsibility

Improving the organizational system of social responsibility management

Strengthening the training of social responsibility talents

Improving the performance evaluation of social responsibility

Responsibility Communication

Strengthening communication with stakeholders

Creating an important and sustainable responsible brand

Developing rich responsibility theme activities

Creating a normalized responsibility communication platform with stakeholders

Responsibility Sharing

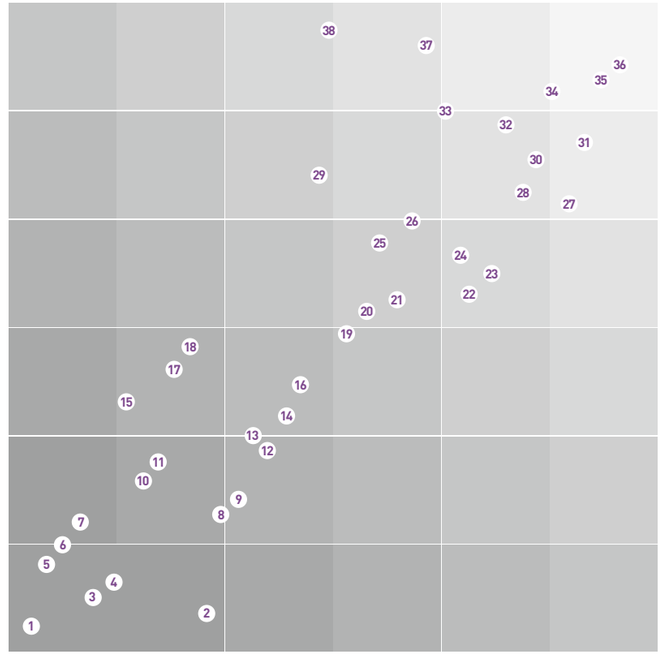
Enriching the social responsibility management platform

Developing social responsibility benchmarking

Strengthening research on responsibilities

Strengthening external publicity

Promoting the CSR report preparation of member enterprises



2366

23,755

423

To effectively translate the concept of "efficient use of resources to serve the construction"

launched the first open day of "Smart Use of Resources Day" of CNBM on August 26, 2020.

systematizing concepts, expanding audiences,

in 37 enterprises in 28 cities at the same time. This

confidence, featuring is a breakthrough attempt and

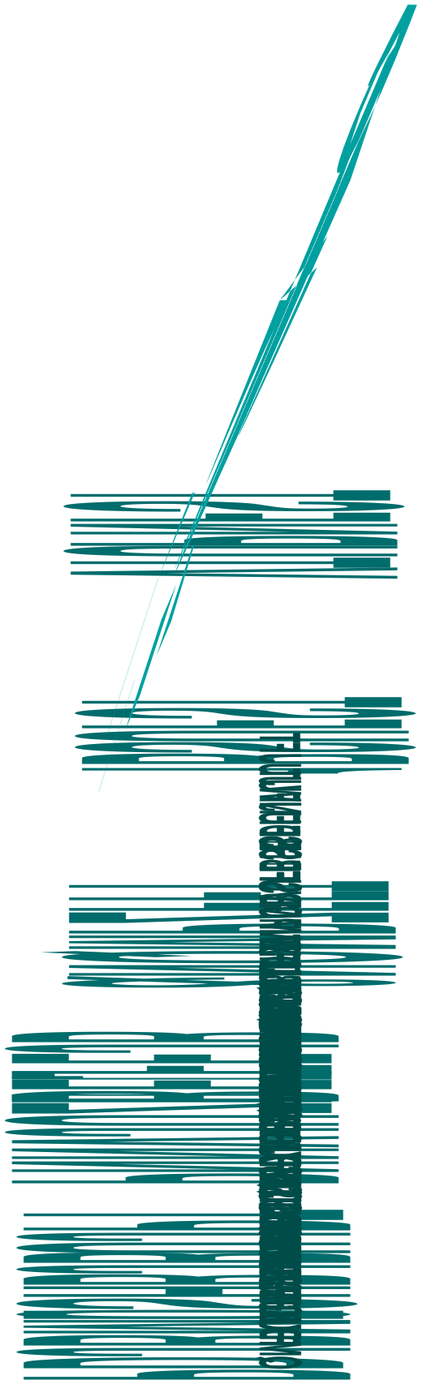
Multi-field

existing business communication combined

Multi-form

Multi-participation

Multi-angle



Responsibility Sharing

Data Review 2020

Operating agreement fulfillment rate

98.6

1,087

46,804

366

673

Trainings offered to subcontractors and suppliers on

159,000

201.45

Assets Supervision and Administration Commission of the State Council on fulfillment of social responsibility by enterprises and consciously set the example of fulfilling social responsibility. In the meanwhile, we take the initiative to share our experience in theories and practices in global responsibility and its implementation through more diversified and internationalized platforms.

participate in social responsibility sharing and initiative activities in different fields, participate

platforms to disseminate ideas, share experiences and launch initiatives, and work with

strictly select suppliers and cultivate premium suppliers; strictly prevent "black-box

products when procuring energy; refer recyclable products and reject excessive packaging when purchasing daily office necessities.

such fields as green economy, intelligent manufacturing, new infrastructure construction,

Data Review 2020

0

99.7
%

standard system certification

801

112,000
person-sessions

100
%

1,450

290
million tons

into every small aspect from incoming of raw materials to delivery of final products and fully promote the construction and certification of the quality management standard

Honor of Responsibility

th

among Fortune Global 500

th

in Global 500 List of the World's Most Valuable Brands

th

among the Top 500 Chinese Enterprises

th

among China's Top 500 Manufacturing Enterprises

nd

among Top 100 Chinese Companies in terms of Sustainability Index

th

among Global 50 List of the World's Most Valuable Engineering and Construction Brands

th

among the Top 500 Most Valuable Brands in China

th

among Top 100 Leading Enterprises in Strategic Emerging Industry in China

th

among Top 500 Chinese Enterprise of Credit

nd

among Top 100 Chinese Manufacturing Enterprises of Credit

Exploration Center

Featured Story

Pay Tribute to the 100th Anniversary

Return to Original Inspirations

Remain True to Original

Square, from Xingye Road to Fuxing Road, the Chinese Communist Party

series of celebration activities rich in contents and diversified in forms with the

the CPC, giving party lectures and handling concrete affairs in a down-to-earth

Learn the history of CPC to find

handling concrete affairs in a down-to-earth manner and breaking new ground

distinct features and diversified forms to help party members to learn history

The flag of the Party flies and the voices from the Party lecture clang. At the point of celebrating the 100

manner to offer "feasts for the minds

27, 2021 in combination of the party history learning & education.
Zhou Yuxian, CNBM Party Secretary and Chairman visited Beijing

by experts and

exhibition of "The Great

Make Contributions and Handle Concrete Affairs

from the SASAC practice promotion meeting of "Handling Concrete Affairs for the People
workshops, streets and fields to get closer to the people, fulfill original inspirations and missions with practices and constantly

Building Materials & Equipment Import & Export Corporation sent

"Handling Concrete Affairs for the People". Children in the school

student's face was filled with happy smiles. In this activity, not only books were offered, an atmosphere of "loving to read and reading great books" was created, resulting in positive social benefit. Since Zhaoyang District became its fixed target of assistance in 2014, CNBM completed six projects and grew with Kazi Primary School,

Confidences", resolutely achieve the "Two Maintenances", firmly follow the

the revolutionary martyrs in the cemeteries; visited revolutionary exhibitions

71

In October 1955, Mr. Lai Jifa, the Deputy Minister of Heavy Industries at that time brought back a sample fiberglass from his visit to the Soviet Union and then China started the R&D in fiberglass. After many trials and failures, researchers developed a non-alkali fiberglass in the autumn in 1957, creating conditions for the development of the fiberglass. In January 1958, the Glass-Ceramic Research Institute under the Ministry of Building Materials Industry made up the first fiberglass research team in China, which was later expanded to be the Fiberglass Laboratory. Without equipment, technology and data, China successfully pressed its first piece of fiberglass only with the help of the sample from the Soviet Union, broke the new ground of fiberglass/composite material and filled the blank of inorganic non-metallic advanced material for national defense. From

process techniques such as manual winding. They researched on continuous high-pressure FRP pipe and bulletproof fiberglass, established a

fiberglass/composite material industry in China.

technology in the field of fiberglass and the world-leading E8 and E9 fiberglass formulas, and produced such products as electronic-grade fine yarn for fiberglass, alkali-proof fiberglass, low-dielectric fiberglass and high-strength and high-modulus fiberglass. In the field of carbon fiber, CNBM filled the gap of high-end carbon fiber technology via technical R&D and industrial mass production of high-performance T700, T800 and T1000 carbon fibers, making great contributions to the economic and social development in China.

first world-class low-energy consumption demonstration production line in China and finally come to CNBM Bengbu Glass Industry Design & Research Institute Co., Ltd., which is known for its bright glasses. This event offered an opportunity for the journalists to get a deep understanding of CNBM's achievements in innovations in transformation mechanism and model of scientific research

China, they experienced in person the intelligent

resolution and efficiency in pursuing a world leading

"Effective Use of Resources" Open Day in China United Cement Tai'an

Future Prospects

The year 2021 is the first year in the "14th Five-Year" Plan and in the new journey of the comprehensive construction of a socialist and modernized country as well as the 100th anniversary of the founding of the CPC. This critical point in time is the coordinate of our endeavor. To drive development with innovations, empower development with reforms, promote development with internationalization and lead development with Party building, CNBM will spare no effort in building a world-class material industry investment group with global competitive edge, with high-quality development as the theme and structural reform at supply side at the main task and under the guidance of Xi Jinping's Thought of a New Era of Socialism with Chinese Characteristics.

When rowing boats in the midstream, only those paddling with the greatest strength can go forward. We should double our efforts and forge ahead to focus on operations and promote healthy industrial ecosystem; improve management with the focus on "three lean managements", use first-class enterprises as benchmarks, enhance quality and efficiency and enable simpler and more efficient systems with better benefits; insist in high-quality development, adopt green and intelligent development as standards, adhere to the "+" strategy and consolidate an industrial pattern of tripartite confrontation; stimulate innovation, increase investment, solidity and improve the leading technical advantages of main products; make commitment to reform, intensify the reforms of state-owned enterprises, release their energy and celebrate the 100th anniversary of the founding of the CPC with excellent performance.

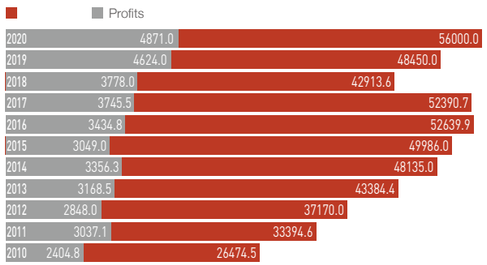
Appendix

Fortune Top 500 Building Material Enterprises in 2021

177	57115.3
266	43444.9
315	37929.8
441	27587.0
492	24653.8

Total Revenues and Profits of Enterprises above Scale in China Building Materials Industry from 2010 to 2020

Unit: RMB 100 million



Production of Cement from 2010 to 2020

Unit: 100 million tons

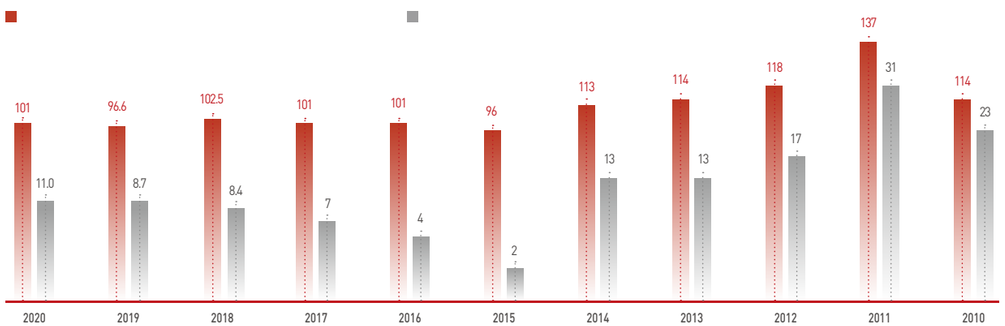
2020	3.5	23.8	37.0
2019	3.7	23.3	42.0
2018	3.4	22.1	39.5
2017	3.4	23.2	41.0
2016	3.2	24.0	42.0
2015	2.4	23.5	41.0
2014	2.5	24.8	41.8
2013	2.4	24.2	40.0
2012	2.7	21.8	38.0
2011	1.9	20.1	36.0
2010	1.7	18.8	33.1

Total Revenues and Profits from 2010 to 2020

Unit: RMB 100 million

		Profits
2020	3941.0	306.1
2019	3981.0	235.2
2018	3480.0	206.6
2017	3021.2	151.1
2016	2612.3	75.8
2015	1992.5	38.4
2014	2504.3	130.1
2013	2522.6	115.1
2012	2174.3	111.6
2011	1940.9	158.5
2010	1353.6	75.6

Unit: %



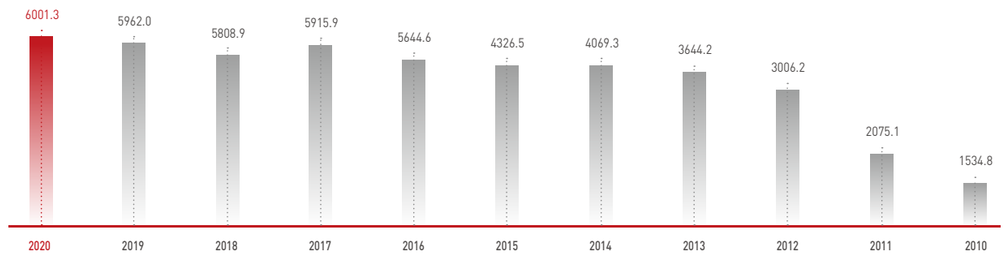
Performance of Listed Companies in 2020

Unit: RMB

	Hong Kong Exchanges and Clearing	3323.HK	0.4700	1.4880
	Shenzhen Stock Exchange	000786.SZ	0.5500	1.6930
	Shanghai Stock Exchange	600176.SH	0.2240	0.6899
	Shanghai Stock Exchange	600970.SH	0.2300	0.6500
	Shenzhen Stock Exchange	000877.SZ	0.4800	1.4458
Ningxia Building Materials	Shanghai Stock Exchange	600449.SH	0.6700	2.0200
	Shanghai Stock Exchange	600720.SH	0.6800	1.8500
	Shenzhen Stock Exchange	002080.SZ	0.4000	1.2228
	Shanghai Stock Exchange	600552.SH	0.0500	0.1581
	Shanghai Stock Exchange	603126.SH	0.8000	0.8000
	Shanghai Stock Exchange	600876.SH	0.0000	0.5930
	Hong Kong Exchanges and Clearing	1108.HK	0.0000	0.5930
	Shenzhen Stock Exchange	002066.SZ	0.0000	0.1201
	Shanghai Stock Exchange	603060.SH	0.2030	0.5364

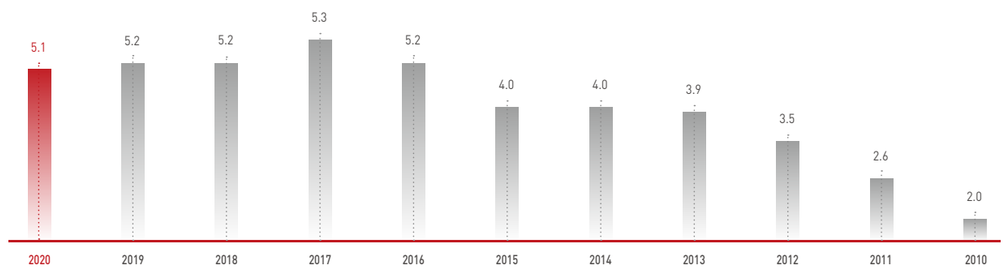
Total Assets from 2010 to 2020

Unit: RMB 100 million



Cement Capacity from 2010 to 2020

Unit: 100 million tons



Science and Technology Awards at or above the Provincial and Ministerial Level from 2010 to 2020

Unit: Item

Year		
2020	109	0
2019	166	3
2018	231	1
2017	197	2
2016	173	2
2015	123	0
2014	117	1
2013	145	1
2012	152	0
2011	132	2
2010	63	0

Standards – CNBM Presiding over and Participating in Compilation or Revision from 2010 to 2020

Unit: Item

Year				
2020	74	3	39	32
2019	88	0	52	36
2018	167	4	90	73
2017	122	4	90	28
2016	91	2	57	32
2015	62	2	36	24
2014	104	3	35	66
2013	59	1	8	50
2012	22	1	5	16
2011	28	1	15	12
2010	79	0	30	49

Annual Patent Application and Authorization from 2010 to 2020

Unit: Item

Year				
2020	4436	1821	2576	532
2019	3308	1638	1804	478
2018	2287	1056	1571	385
2017	2144	1039	1524	428
2016	2156	880	1793	455
2015	1568	566	1492	193
2014	1571	531	1381	106
2013	1262	373	848	128
2012	766	228	729	143
2011	630	170	487	80
2010	514	173	420	54

Accumulative Patents from 2010 to 2020

Unit: Item

Year		
2020	14463	3816
2019	12124	3164
2018	10967	2765
2017	10024	2403
2016	8408	1913
2015	5663	900
2014	4255	687
2013	3231	589
2012	2549	448
2011	1606	288
2010	1232	227

Expenditure on Scientific Research Activities from 2010 to 2020

Unit: RMB 100 million

2020	119.1
2019	95.9
2018	81.9
2017	59.3
2016	51.2
2015	40.9
2014	41.6
2013	36.2
2012	33.4
2011	31.6
2010	20.7

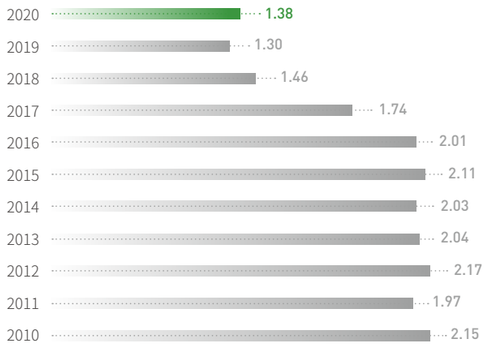
Revenues from Technological Innovation from 2010 to 2020

Unit: RMB 100 million

2020	35.2	754.7
2019	28.4	577.6
2018	30.1	555.9
2017	16.6	468.5
2016	15.7	339.0
2015	11.5	256.5
2014	8.8	289.9
2013	10.3	259.4
2012	9.4	248.4
2011	11.0	240.3
2010	14.1	158.4

Comprehensive Energy Consumption per RMB 10,000 Output Value from 2010 to 2020

Unit: ton of standard coal/ RMB 10,000



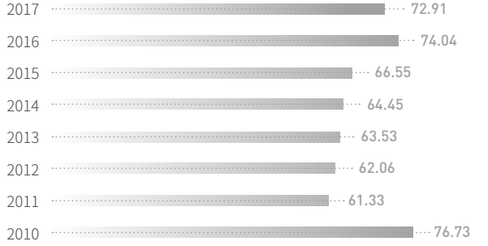
SO_2 and COD Emissions per RMB 10,000 Output Value from 2010 to 2020

Unit: kg/RMB 10,000

2020	0.42	0.04
2019	0.62	0.03
2018	1.09	0.03
2017	1.07	0.03
2016	1.60	0.05
2015	1.46	0.06
2014	1.36	0.06
2013	1.39	0.07
2012	1.45	0.07
2011	1.60	0.12
2010	2.33	0.12

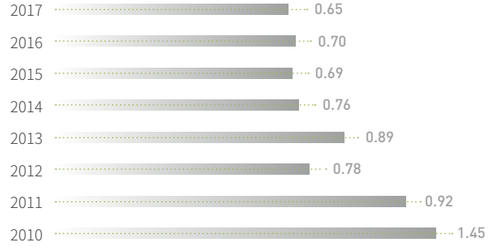
Comprehensive Energy Consumption per Ton of Cement from 2010 to 2020

Unit: kg of standard coal/ton



Nitrogen Oxide Emissions per Ton of Cement Clinker from 2010 to 2020

Unit: kg/ton



Performance of Solid Waste Disposal and Utilization from 2010 to 2020

2020	17880	91.7
2019	14967	99.9
2018	9900	92.8
2017	15615	99.0
2016	14909	88.6
2015	7545	98.5
2014	7882	98.0
2013	6191	99.2
2012	9700	100
2011	6500	100
2010	2500	—

Performance in Utilization of Water Resources from 2011 to 2020

2020	5.3	0.49	95.1
2019	3.6	0.34	90.0
2018	7.9	0.45	90.8
2017	7.1	0.51	96.2
2016	6.2	0.38	93.7
2015	7.2	0.46	93.5
2014	6.2	0.41	90.3
2013	8.0	0.41	96.4
2012	5.0	0.33	94.7
2011	5.5	0.37	——

Employee Profile from 2010 to 2020

Unit: Person

2020	202844	1036	5725	1731	16.9%
2019	204763	483	5808	1729	16.2%
2018	208680	1059	5167	1697	18.7%
2017	221421	750	5985	1732	18.4%
2016	234511	1126	5964	1875	18.3%
2015	176610	841	3521	1449	17.2%
2014	176854	892	3120	2263	18.4%
2013	179421	1234	3031	1685	18.1%
2012	165652	1190	2706	1620	13.5%
2011	126385	594	3516	1023	11.6%
2010	112676	397	1566	599	24.0%

Employment Contract and Social Security Coverage and Labor Union Membership from 2010 to 2020

Unit: %

2020	100	90	78
2019	100	92	78
2018	100	90	78
2017	100	98	92
2016	100	98	91
2015	100	98	91
2014	93	88	70
2013	96	92	75
2012	96	92	80
2011	94	91	73
2010	88	87	——

Progress of Enterprise Annuity from 2010 to 2020

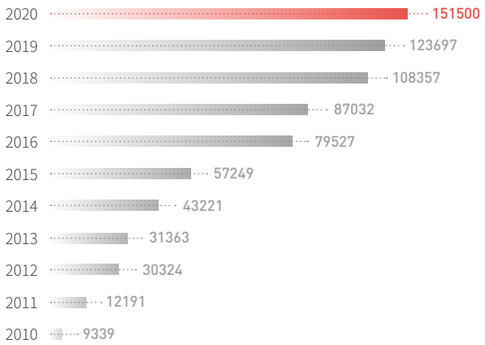
2020	531	95554
2019	207	56174
2018	100	35644
2017	74	24093
2016	71	22871
2015	68	22165
2014	67	21750
2013	67	21131
2012	66	20392
2011	53	13368
2010	38	12811

Employee Training Performance from 2011 to 2020

2020	84771	215	2628
2019	107787	137	1679
2018	75187	485	1424
2017	52676	112	2251
2016	47554	331	3028
2015	32672	133	2882
2014	43352	91	3520
2013	37491	164	2387
2012	21028	126	1138
2011	11975	108	1580

Occupational Health and Safety Investment from 2010 to 2020

Unit: RMB 10,000

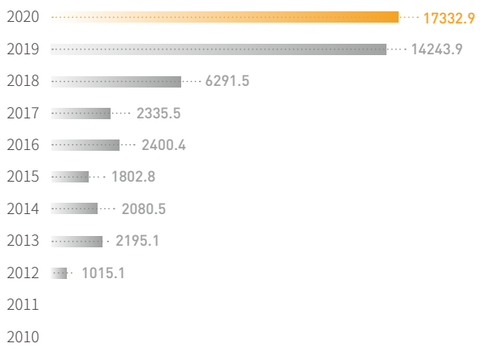


Workplace Safety Performance from 2010 to 2020

2020	0.2	0
2019	0.4	1
2018	0.5	1
2017	0.5	2
2016	0.5	0
2015	0.9	3
2014	1.3	2
2013	1.6	1
2012	2.3	3
2011	1.4	19
2010	1.5	24

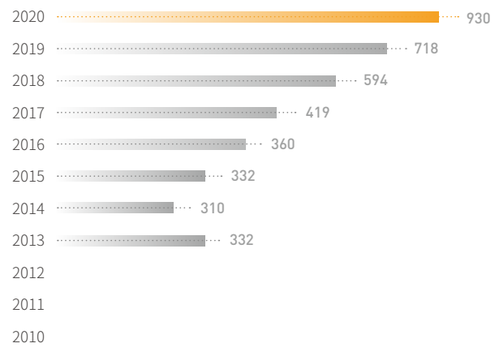
Social Public Welfare Expenditure from 2010 to 2020

Unit: RMB 10,000



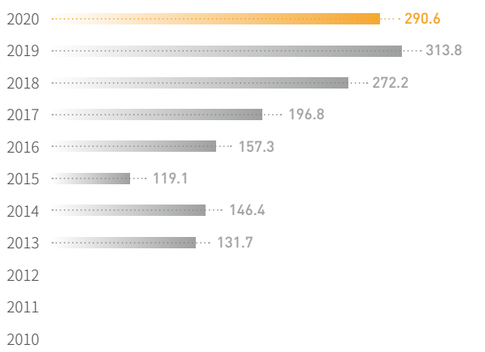
Number of Supported Social Welfare Projects from 2010 to 2020

Unit: Item



Payment of Taxes from 2010 to 2020

Unit: RMB 100 million



Performance in Employment Assurance from 2011 to 2020

Unit: Person

2020	22032	3667	24
2019	27763	3890	22
2018	26553	3626	141
2017	29612	4727	139
2016	22342	3129	23
2015	16929	2473	10
2014	23617	3848	46
2013	16081	4383	158
2012	15901	3743	521
2011	21182	4276	241

Assistance of Students from 2011 to 2020

2020	20	99	298	128	53145
2019	22	113	284	132	52689
2018	18	73	188	118	45464
2017	14	72	155	163	31519
2016	8	37	266	134	34030
2015	8	36	159	47	26586
2014	31	53	227	97	28619
2013	18	112	506	119	36530
2012	20	136	466	98	17815
2011	27	——	727	——	——

Volunteer Activity Organization from 2011 to 2020

				of staff
2020	192	190	10121	49220
2019	213	2219	10343	40192
2018	189	126	6853	44445
2017	335	363	5334	25164
2016	112	344	5646	28157
2015	56	191	2187	14840
2014	65	145	3400	9418
2013	109	145	4864	10681
2012	67	91	3337	39778
2011	——	——	——	10618

Report Norms			102-46、102-50-102-53	P1.1-1.3
Chairman's Address			102-14、102-15	P2.1-2.2、P3.1-3.2、M1.6-1.7、M2.4、S1.4、S4.12
About Us			102-1、102-2、102-4-102-8、102-10、102-18、102-22、102-24、102-16	P4 S1.

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02	Key topics identification and	
03		Acknowledge the index system of the information system
04		
05		
06		and CSR experts
07		Revise texts; verify data and complete standard self-check
08		
09		
10		
11		Analyze shortcomings for rectification and improvement

Rating Report of Sustainability Report 2020 of China National Building Material Group Co., Ltd.

Commissioned by CNBM, a rating panel is set up consisting of experts selected and assigned by the "Chinese Expert Committee on CSR Report Rating" to rate the

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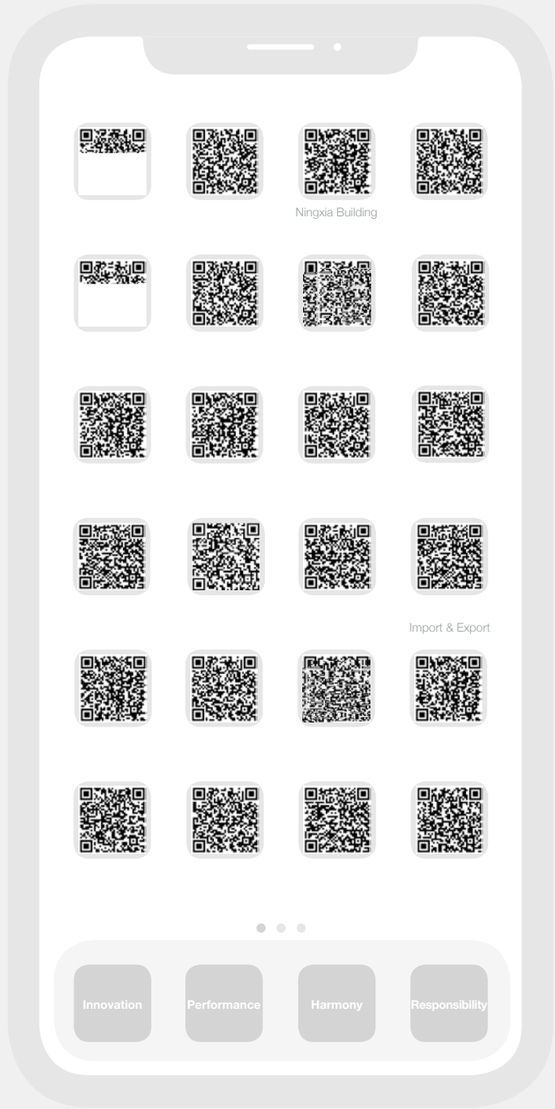

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