

CHINA NATIONAL BUILDING MATERIALS GROUP CORPORATION

Social Responsibility Report



Preparation Notes

About this Report

This is the fifth social responsibility report released by China National Building Materials Group Corporation (CNBM). This Report gives a true picture of CNBM's commitment to sustainable development.

Period Covered by the Report

1 January to 31 December 2013; given the progressing continuity of certain businesses or projects, some contents relate to the first and second quarters of 2014, the details of which are indicated in the Report.

Reporting Frequency

Annual report.

Entities Covered by the Report

All the wholly-owned or controlled (including absolute and relative controlled) members of CNBM. For the purpose of concise description, terms of "CNBM", the "Group" and "We" are used in the Report to refer to China National Building Materials Group Corporation.

Referential Guidelines

Sustainable Development Report (G4) published by the Global Reporting Initiatives (GRI); Social Responsibility Guide (ISO26000) issued by the International Organization for Standardization (ISO); China CSR Reporting Guidelines (CASS-CSR3.0) issued by the Chinese Academy of Social Sciences, etc.

Data Sources

All information and data used herein are from the headquarters of CNBM and its member companies. Notes have been made in the report for the information from external reference. Unless otherwise stated, all monetary amounts are expressed in RMB.

How to Get this Report

Please ask for the printed version of this Report via the contact information on the cover. You can also scan the two-dimension code below or log onto http://www.cnbm.com.cn/EN/ to download the electronic version of this Report and get more related information.







Assurances

The financial data in the Report are derived from CNBM 2013 Annual Financial Statement which has been audited by Baker Tilly China.

The non-financial data in the Report are derived from CNBM's statistical data system. Data in the system are faithfully reported by functional departments and offices of CNBM headquarters and its member companies in accordance with CNBM Social Responsibilities Management Information Collection Measures; data of member companies are submitted to the headquarters after approved at all levels; each department or office of the headquarters reviews special data according to its function; to ensure the standardization, reliability and authenticity of the data, the headquarters verify data of member companies through sampling at a proportion of at least 5%.

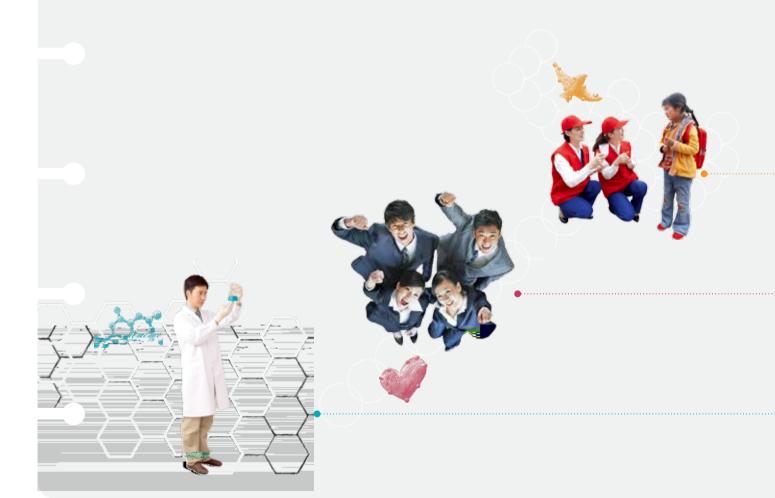
External data in the Report are derived from those released by third parties through media, sources of which are indicated in the Report.

Preparation Process

Project startup	_	Defining annual work plan meeting or document
Defining core topics and boundaries	-	Analysis of stakeholders' concerns Annual major core topics Analysis of domestic and overseas CSR standards and guidelines Study on new standards and trends
Printing and distributing information list	\	Defining indicator system of information system List of annual star cases
Collecting materials	-	Feedback on member companies' materials Feedback on functional departments and offices' material Analysis of stock materials Collection of media reports
Writing report		Drawing framework of the Report Defining the topic Compiling first draft
Consultation		CSR leading group Functional departments and offices in headquarters Member companies Stakeholders CSR experts
Improvement		Text revision Data verification Standard self-examination
Design		Readability Innovation Continuity
Evaluation		Rating Standards of Corporate Social Responsibility Reporting in China (2014)
Issuance		Transmission via multimedia and stakeholders
Summary & Promotion		Analyzing deficiencies and making improvement plan

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Executive's Address

We have established a vigorous internal mechanism through the mixed ownership. Motivated by the mixed ownership, CNBM has upgraded management system, operation system, concepts of staff. We have practiced the operation model of "Market-oriented Operation of Central State-owned Enterprises", obtained finance from the capital market, and realized diversified equities. We have also realized the standardization of governance structure through management integration based on market rules, practiced the marketization of internal mechanism to satisfy the development of various talents, and provided motivation to enterprise development through integrated innovations, driven by the market.

Our active exploration for mixed ownership has promoted the harmony and win-win development of the society. When developing the mixed ownership, we always follow such principles as normative operation, mutual benefit and mutual respect, and long-term cooperation. We combine the development of enterprise with local economic and social constructions and prosperities. We continuously contribute to the harmonious development of regions where our companies are located through paying taxes, driving the development of supply chains and SMEs, creating jobs, supporting local infrastructure constructions, and participating in social public benefit activities. The Group paid taxes amounting to RMB 13.17 billion, and donated RMB 21.95 million in 2013.

Confronted with a more complicated economic, social and environmental situation, we will adhere to the guideline of deepening innovation throughout the development, continue to explore effective methods to develop mixed ownership, timely spread and share beneficial experiences, and cooperate with stakeholders to harvest achievements of reform.

SONG ZHIPING CHAIRMAN OF CNBM

Overview

the largest comprehensive building materials industry group in China. It has been ranked first among the top 500 enterprises in the building materials industry, 46th among the Top 500 Enterprises in China in 2013 and 267th among the Fortune Global 500. Up to the end of 2013, the total assets of the Group amounted to RMB 364.42 billion and the total number of of RMB 252.26 billion with total profit of RMB 11.51 billion, whilst taxes paid amounted to RMB 13.17 billion. With the objective to maximize corporate value and improve core competence, CNBM has developed into a comprehensive building material industry group with integration of manufacturing, scientific research and development, set of equipment, logistics and trading, through asset restructuring, Total assets of RMB $364.42^{\text{billion}}_{\text{in 2013}}$ business integration and management improvement. Headquartered in Beijing, CNBM has 1,113 holding member companies, dominates 6 listed companies, including 2 overseas listed companies. Member companies of CNBM are located in 30 Chinese provinces, municipalities and autonomous regions cover over 120 countries and regions in the world. Revenue of RMB 252.26 billion in 2013 Total import and export of USD 5.69° billion in 2013



Business Activities



With China National Building Materials Company Limited, CNBM Glass Company and China New Building Group Corporation as the mainstay of manufacturing businesses, CNBM has built strong cement, glass, light-weight building material, new building, glass fiber, composites, and refractory platforms, through undertaking consolidation of strategic resources and restructuring, reconstructing traditional industry by new technologies, and developing advanced productivity by incremental input.



Scientific Research and Development

Our scientific research and development business possesses 13 top scientific research and design institutes in building materials and light industrial machinery sectors of China, and a cluster of hi-tech companies. We also have a national scientific innovation platform, which comprise of state key laboratories, engineering (technology) research centers, company technology centers, industrial products QC and technical assessment laboratories, work stations of academician, mobile work stations of post-doctors, scientific research work stations, innovation alliances, etc. We have also established a new technical innovation system of building materials corporate group with international competitiveness.

Cement

The annual capacity of cement is about 400 million tons, ready-mixed concrete is 410 million m³, both of which rank the first in the world. CNBM achieved scale advantage through combination and restructuring, realized energy conservation and emission reduction through technical progress, restrained cutthroat competition through industrial self-discipline, improved profitability through management integration, and showed its value through capital market. At present, CNBM has formed four strategic zones, namely Huaihai Economic Zone, Southeast Economic Zone, North Zone and Southwest Zone, and become leader of industrial integration and development in these zones.

Light-weight building material

The light-weight building material industrial platform includes four business sectors, namely the wall and suspended ceiling system, the housing parts and architectural energy conservation system, the exterior building envelope system, and the new factory housing system. It also possesses internationally recognized high-end brands and proprietary intellectual property rights, as well as 54 major industrial bases, which are rationally distributed all over the country. Its annual productivity of gypsum plasterboard exceeds 1.65 billion m2, ranking the first in the world. The platform provides application solutions pack for public buildings and family housing with its complete product system.

Carbon fiber

We have the 1,000-ton carbon fiber production line, which owns largest scale and most advanced technology in China. We've reached the annual productivity of 10,000 tons PAN silk and 4,000 tons carbon fiber. We are China's first production line successfully producing high-quality T700 PAN silk and carbon fiber, with the productivity of T700 silk reaching 5,500 tons and that of T700 carbon fiber SYT-45 reaching 2,200 tons.

Glass

The glass industrial platform can produce high-quality float glass in various colors and specifications with processing capacity of 10 million m², covering products of vehicle glass, architectural fabricated glass, and decorative glass. We can produce 0.33 mm ultra-thin glass, the thinnest in China, and have the productivity of 40 million pieces of ITO electropane. We also have an industrial base, capable of producing 0.4 mm and 0.5 mm crystal glass substrates.

Fiberglass

The total productivity of fiberglass has reached 1 million tons, which ranks the first in the world. With four production bases in China and Egypt, and the largest fiberglass R&D center and laboratory with the most advanced equipment in China, it also possesses world-leading technology of fiberglass tank furnace design and building, such as the world's largest alkali-free tank furnace production line with an annual productivity of 160,000 tons, the alkali tank furnace production line with an annual productivity of 40,000 tons, and alkali-free environmentally-friendly tank furnace production line with an annual productivity of 30,000 tons, which utilizes only wasted silk as raw material.

Rotor blades

We are China's largest and world's top three manufacturer of megawatt rotor blades, covering most complete megawatt blade products in China with categories varying from 1.25 MW to 6 MW, and length of blade varying from 31.5 meters to 62 meters. Our products cover all categories of products for land and marine use. We have established a R&D center in Germany and other four production bases, with a total productivity of 15,000 blades. We also own a national blade testing center and overseas R&D subsidiaries, possessing strong R&D and technical abilities.



We have the productivity of solar PV parts and industrial bases covering several provinces of China. We have also directed constructions of many PV power stations both at home and abroad.

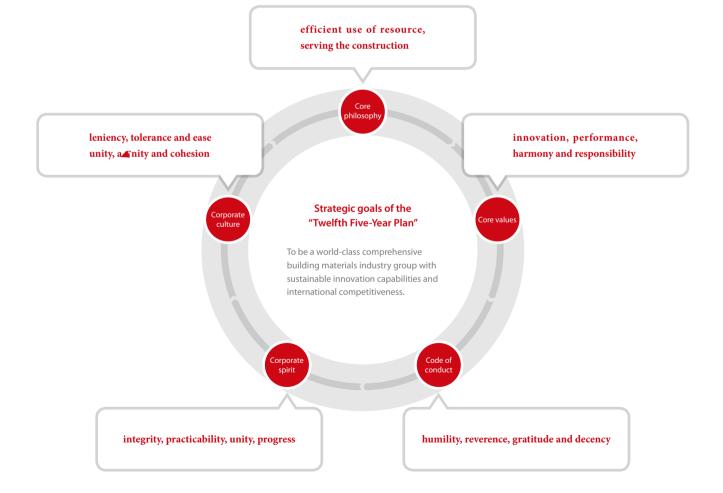
Logistics Technology Set of and Equipment Service Trading Our set of equipment business is based on over 20 Based on the experience and advantages of international Our technology service business consists of technology equipment manufacturers. We've established an trade of bulk building materials, our logistics and trading consulting, testing and verification, It is CNBM's practical equipment industrial service platform for the building business utilizes our experience of new Internet technology measures in service-oriented transformation of traditional materials industry, the light machinery industry, the and e-commerce operation, and adopts the mode of crossbuilding materials industry. Backed by the Group's strong mining equipment sector, and the environmental research and technical capabilities, the technology border e-commerce+ oversea location. We have rationally protection equipment sector of China. The platform and effectively integrated suppliers of bulk building materials, service business covers design, contracting, consultation, covers all categories, providing leading edge technology, banks, logistics and transportation, insurance, inspection and supervision of international and domestic construction fine equipment, advanced techniques, and complete quarantine, distributors, and purchasing agents; we provide projects, as well as other testing and verification service, comprehensive solutions covering all links of international including certification test, energy efficiency assessment, supporting services. trade, including customs clearance, storage, logistics, contract energy management, comprehensive utilization insurance, financing, credit information, certification; we and evaluation of resources, production approval and have established an integrated service platform for the evaluation of green building materials, energy-conservation supply chain of international building materials trade, which building materials, and supporting building materials products for constructions. We provide technical guarantee provides online one-stop management of export services With products and brands enjoying international popularity for the QC of building materials products, and the sound and independent intellectual property, we've become a and sustained development of building materials market. comprehensive building materials service provider for the international market, and listed as key export support enterprise and key commercial distribution enterprise by Refractories Pre-fab housing As the animateur and promoter of the environmenta world's largest profession production base of fusion-east refractory, whose armual productivity is near 40,000 tons, an automatic production line of unshaped ual productivity is nearly friendly and energy-conservation pre-fab housing industry of China, we integrate R&D, design, production and refractory with an annual produ rity of 100,000 tons, an installation with system integration. As one of the first industrial production base of "environmentally-friendly national demonstration bases of housing industrialization, basic refractory for cement kiln", which is included in the we have many demonstration bases of pre-fab housing in

Strategic Philosophy

Taking "efficient use of resource, serving the construction" as the core philosophy and technical innovation as the guide, CNBM optimizes and integrates industrial and social resources, adheres to circular economy, promotes combination and restructuring, structural adjustment, and energy conserving and emission reduction of such industries as cement and glass. CNBM vigorously develops new building material, new energy-saving buildings, new energy and materials, advanced technology and set of equipment, providing high-quality products

and services for urban-rural development and the construction of urbanization, energy-conservation and land-saving buildings, and national key projects. CNBM endeavors to develop enterprises with innovative performances, resource conservation capacity, environment conservation awareness, and social responsibilities, advancing towards the leading position of the industry with international competitiveness, contributing to the sustainable development of the industry and society.

CNBM implements three major strategies: first of all, "scientific innovation", namely to enhance core competitiveness of the enterprise with scientific innovation; secondly, "internationalized grand building materials", which includes "grand building material" strategy and internationalized development; thirdly," vitalizing enterprise through talents"—we firmly believe that talents are the key for an enterprise to develop competence, and we should be in full swing to cultivate and introduce talents, establishing professional human resource management teams.



Management mode

grid-management and control

We promote "grid" management and cooperation mode, and fix the function d operation mode and development orient of the enterprise in specific grid through accurate management and control, thus keeping orderly and concerted operation each enterprise. This management and cc system include governance standardizatic function stratification, building platform f business, delicacy management and cultu integration.

Development mode

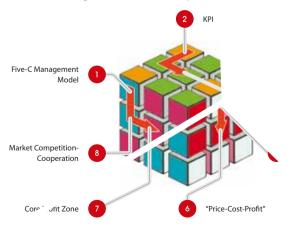
four wheels-

We have resolutely followed the developm path of capital operation, combination and restructuring, management integration and integrated innovation, managed to find the sources of capital, resources and core competitiveness, realized the rapid development of enterprises, and promotec transformation and upgrade of the industry

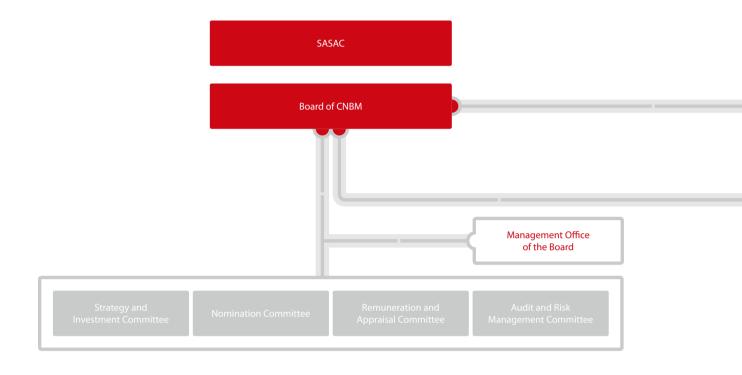
Management method

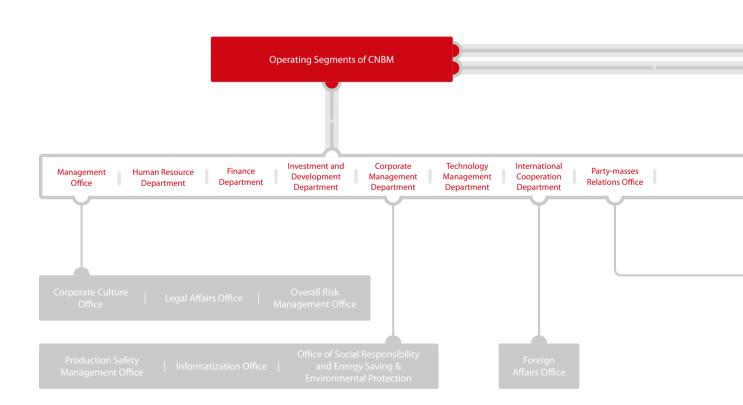
eight management measures-

We constantly improve management integr with complicated affairs. This business mananamely good performance, delicacy manage contributing to the increase of enterprise co



Governance Structure





Member Companies

China National Building Materials Company Limited

China United Cement Corporation

South Cement Company Limited

North Cement Company Limited

Southwest Cement Company Limited

BNBM Public Limited Company

China Composites Group Co., Ltd.

Lianyungang Zhongfu Lianzhong Composites Group Co., Ltd.

Zhongfu Shenying Carbon Fiber Co., Ltd.

China Triumph International Engineering Co.,Ltd.

Nanjing Kisen International Engineering Co., Ltd.

China Fiberglass Co., Ltd.

Jushi Group Co., Ltd.

CNBM Investment Co., Ltd.

China Building Materials Academy

China Building Materials Academy (Beijing Headquarters)

Ruitai Materials Technology Co., Ltd.

China Building Materials Test & Certification Group Co., Ltd.

Hefei Cement Research & Design Institute

Bengbu Design & Research Institute for Glass Industry

Anhui Huaguang Photoelectricity Materials Technology Group Co., Ltd.

Harbin FRP Institute

CNBM Design & Research Institute

Qinhuangdao Glass Industry Research and Design Institution

Xi'an Research & Design Institute of Wall & Roof Materials

Xianyang Research & Design Institute of Ceramics

Horological Research Institute of Light Industry

China National Building Materials & Equipment Import & Export Corporation

CNBM International Engineering Co., Ltd.

CNBM International Corporation

CNBM Technology Co., Ltd.

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

INTECH Building Co., Ltd.

China National United Equipment Group Co., Ltd.

China New Building Group Corporation

CNBM Glass Co., Ltd.

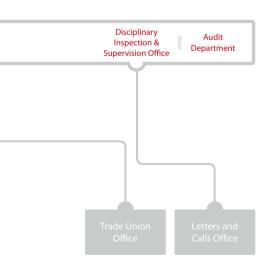
China Luoyang Float Glass Group Co., Ltd.

Henan Zhonglian Glass Co., Ltd.

CNBM Assets Management Corp.

Zhejiang Leomax Group Co., Ltd.





Management Team





















Board of Directors

	Song Zhiping Chairman			
Yao Yan Vice Chairman	Cao Jianglin Director	Ni Xiaoting External Director	Zhao Xiaogang External Director	
	Zhuang Laiyou External Director	Lu Xiaoqiang External Director	Zhu Yanfu External Director	Peng Xuefeng External Director
		Wang Yumeng Staff Director, Chairman of Trade Union		













Management

Cao Jianglin General Manager	Hao Zhenhua Deputy Secretary of Party Committee	Guo Chaomin Deputy General Manager		
		Ma Jianguo Deputy General Manager	Huang Anzhong Deputy General Manager	Wu Jiwei Chief Accountant

Responsibility Footprints

2010.1

CNBM organized the study on and arranged the promotion of social responsibilities work.

2010.2.1

CNBM started the preparation for CNBM 2009 Social Responsibility Report—the first social responsibility

2010.5.13

CNBM established "CNBM Leading Group to Advance Social Responsibility Work" with Chairman Song Zhiping as the group leader.

2011.1.21

CNBM established Social Responsibility and Energy Saving and Emission Reduction Office, which is responsible for social responsibility work of CNBM.

2011.4.20

CNBM prepared and applied CNBM Social Responsibilities Management Data Indicator System, which included 319 quantitative indexes.

2011.6.17

CNBM, awarded with the highest honor of "Special Award of Social Responsibility "in 2011 China Corporate Social Responsibility Annual Meeting, was the only enterprise in the building materials industry listed in the "Top 100 Enterprises of Social Responsibilities".

2012.3.3

CNBM enabled the mechanism of internal expert's advice and feedback for social responsibility, and took advice from internal stakeholders into social responsibility management.

2012.4.18

CNBM enabled CNBM Information System of Social Responsibility Management to collect data of social responsibility management.

2012.6.30

CNBM released 2011 Social Responsibility Report. The Report was rated 4.5-star by Chinese Academy of Social Sciences, which was the highest evaluation among CSR reports in building materials industry.

2010

2011

2012

2010.5.19

CNBM employed international verification ς Jup to review and verify the report.

2010.9.20

As the first enterprise releasing an annual corporate social responsibility report in the building materials industry of China, CNBM released 2009 Social Responsibility Report.

2011.6.27

CNBM released 2010 Social Responsibility Report of CHINA NATIONAL BUILDING MATERIALS GROUP CORPORATION themed on "Innovation for Sustainable Development in the Future", which was the first themed report in the building materials industry. The Report was rated 4-star and excellent by CSR Research Center of Chinese Academy of Social Sciences, which was the highest evaluation among CSR reports in the building materials industry.

2011.7.28

CNBM formulated annual promotion plan for CSR.

2011.11.8

In 2011 Research Report on CSR of China released by Chinese Academy of Social Sciences, the "social responsibility development index" of CNBM ranked the 15th, which was among the leading group.

2012.7.30

CNBM released the English version of 2011 Social Responsibility Report, which was the first English report in the building materials industry.

2012.12.22

Social Responsibility Management System Construction of Large Building Materials Enterprise with Sustainable Development as the Guide, the social responsibility management practice of the Group, was awarded with the second prize of the 19th National Award for Innovation Achievements in Modernization of Management, and the first prize of Innovation Achievements in Modernization of Management of the Building Materials Industry.

2013.1.14

CNBM was awarded with the Award of "2012 People's Enterprise of Social Responsibility" in the "Positive Energy · the 7th People's Award of Social Responsibility" hosted by People's Daily Online.

2013.2.26

CNBM officially issued three management systems, including CNBM Instructions on Implementation of Social Responsibility

2013.6.30

CNBM released 2012 Social Responsibility Report. The Report was rated 5-star by Chinese Academy of Social Sciences, which was the highest evaluation among CSR reports in the building materials industry.

2014.1.17

CSR Research Center of Chinese Academy of Social Sciences officially released 2013 White Book of Corporate Social Responsibility in China, in which CNBM 2012 Social Responsibility Report ranked the 2nd among five-star reports.

2014.2.25

CNBM joined United Nations Global Compact, and attended the annual meeting of Global Compact Network China and the transition meeting of presidium as the member of presidium of Network China. Chairman Song Zhiping was named as member of the second presidium of Global Compact Network China.

2014.6.6

"Green Town' Facilitates the Construction of New Urbanization" project of BNBM Public Limited Company. was listed as an example case of products and services for sustainable development.

2014.6.26

Chairman Song Zhiping attended 2014 China Summit on Caring for Climate of UN Global Compact China Network and delivered a keynote speech. CNBM was awarded with the honor of "2014 Pioneer Enterprise of 'Care for Climate · Ecological Civilization"

2013

2013.11.14

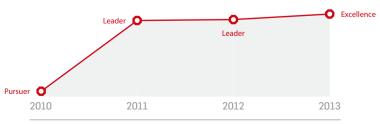
Research Center Social for Corporate Responsibility of Chinese Academy of Social Sciences officially released 2013 Blue Book of Corporate Social Responsibility, in which the social responsibility development index of CNBM was 80.5 marks, ranking the 7th among top 100 enterprises in China. CNBM managed to break into the team of "excellence" among Chinese enterprises in terms of corporate social responsibilities.

2013.12.20

CNBM was awarded with the "2013 Demonstration Enterprise Award of Public Transparency Among Top 50 Enterprises in China".

2010-2013

CORPORATE SOCIAL RESPONSIBILITY DEVELOPMENT INDEX OF CNBM



Source: Research Report on CSR of China (2011-2013)

Responsibility Performance

Market Performance

2012-2014

Fortune Global Top 500 Building Materials Enterprises 5579 18219.9267319365CNBM41027.94 1.3China



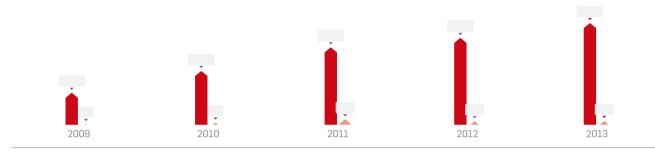
2013 Performance of Holding Listed Companies

	Stock Name	Stock Exchanges	Stock Code	Dividend per Share (RMB)	Earnings per Share (RMB)
	CNBM	Hong Kong Exchanges and Clearing			
	BNBM	Shenzhen Stock Exchange			
	China Fiberglass	Shanghai Stock Exchange			
Fang	king Science & Technology	Shanghai Stock Exchange			
	CLFG	Shanghai Stock Exchange			
	Luoyang Glass	Hong Kong Exchanges and Clearing			
	Ruitai Technology	Shenzhen Stock Exchange			

2009-2013

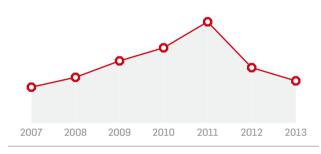
Main Business Revenue and Total Profit

Unit: RMB 00' million



2007-2013

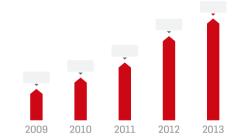
Return on Equity



2009-2013

Total Assets

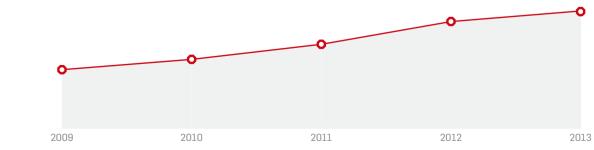
Unit: RMB 00' million



2009-2013

Cement Production Capacity

Unit: 00' million tons

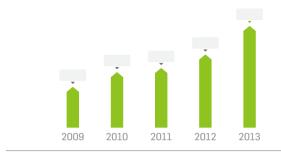


Energy Saving & Environmental Protection

2009-2013

Energy Consumption

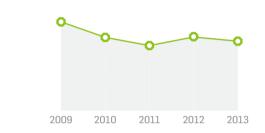
Unit: Million tons of standard coal



2009-2013

Comprehensive Energy Consumption per RMB 1,000 **Output Value**

Unit: tons of standard coal per RMB 1,000 output value



2013

Main Energy Consumptions

Indicator	Unit	Consumption
Total Energy Consumption	Million tons of standard coal	
Of which: Coal	Million tons of standard coal	
Power	GWh	
Natural Gas	Million standard m ³	
Other Resources	Thousand tons of standard coal	

2013

Energy Consumption Structure

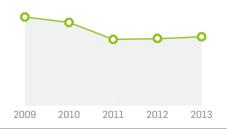




2009-2013

Unit Energy Consumption of Cement Products

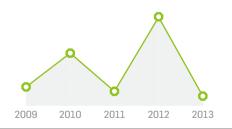
Unit: kg standard coal/ton



2009-2013

Unit Energy Consumption of Glass Products

Unit: kg standard coal/weight case



2010-2013

Capital Investment for Energy Saving & Environmental Protection

2013 **Incentives for Students**

Indicator	Unit	2013	
Special scholarship	Number		
Total scholarship	RMB39(P)25(erson-dic8(da)8	S)3y4.435 scn/TT2 1 Tf7.542 717825 Td(18)Tj3653Tq0 g0.597 0.11 scn/T1团 1veColorimetric ri42.52 0 1 230.8i

Employee Care

2010-2013

Employee Profile



2010-2013

Coverage Rates of Labor Contract, Social Insurance and Employees Joining **Trade Union**

 Coverage rate of labor contract Coverage rate of

social insurance Proportion of





2010-2013

Progress of Enterprise Annuity



2011-2013

Performance of Staff Training

Indicator	2011	2012	2013
Employee training programs			
Training time	(thousand hours)	(thousand person-times)	(thousand hours)
Number of diplomas or degrees obtained by in-service employees with our assistance			

2009-2013

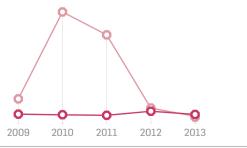
Investment in Production Safety

Unit: RMB Million 2009 2010 2011 2012 2013

2009-2013

Performance of Production Safety

- Recordable injury rate per 1,000 employee
- Number of new occupational disease cases



Technological Innovation

2009-2013

Technology Awards at Provincial and Ministerial Levels

Unit: Number of Awards	2009	2010	2011	2012	2013
Scientific and technological awards at Provincial and Ministerial level or above					
Of which: National level Scientific and technological awards					
Technical innovation awards					

2009-2013

The Standards of Presiding or Participating in Preparation or Amendment

Unit: Number of Standards	2009	2010	2011	2012	2013
Total number of standards					
Of which: International					
National					
Industrial					

2009-2013

Application and Grant of Patents

Unit: Number of applications and patents	2009	2010	2011	2012	2013
New applied patent					
Of which: invention patents					
Newly granted patents					
Of which: granted invention patents					

2009-2013

Accumulative Patents Owned

Unit: Number of Patents













2009-2013

Expenditure on R&D Activities

Unit: RMB 00' million













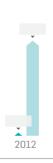
2009-2013

Income of Technological Innovation and Sales Revenue of New Products

2010

Unit: RMB 00' million



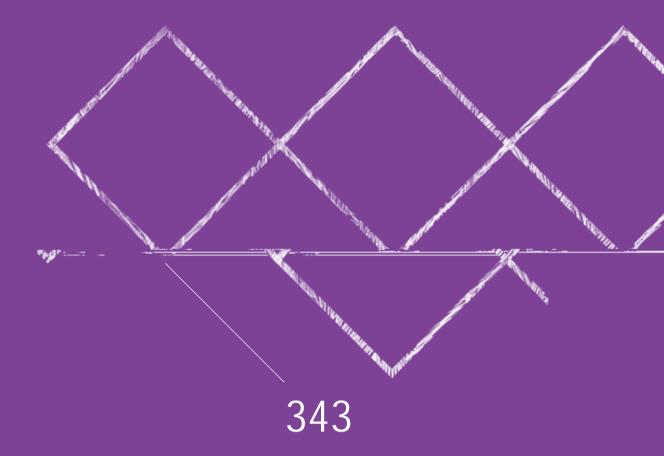




▲ Income of technological innovation Sales revenue of new products









Responsibility Management

We pay close attention to the demand of stakeholders, including investors, employees, clients, partners, related groups, communities, media, environment and government. We adhere to the core philosophy of "efficient use of resource, serving the construction". We integrate social responsibility with daily management, practically implementing the idea in five aspects, namely market performance, energy saving & environmental protection, corporate citizen, employee care and technological innovation.

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- **30** Promotion of Responsibility
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- 34 Sharing Responsibility



Responsibility Philosophy

We pay close attention to the expectations of stakeholders such as investors, government, employees, clients, partners, related groups, communities, media and the environment. We insist on the core philosophy of "efficient use of resource, serving the construction" and regard "innovation, performance, harmony and responsibility" as our core values. We stress both technology and management innovation in our development, pursuing a coordinated and win-win situation with the market, the environment and the society. We insist on establishing a harmonious relationship with competitors, nature, employees and society, performing social responsibility in five aspects namely market performance, science & tech innovation, energy saving & environmental protection, employee care and corporate citizenship. We are committed to becoming a worldclass comprehensive building materials industry group with sustainable innovation capabilities and outstanding international competitiveness.

Core Topics

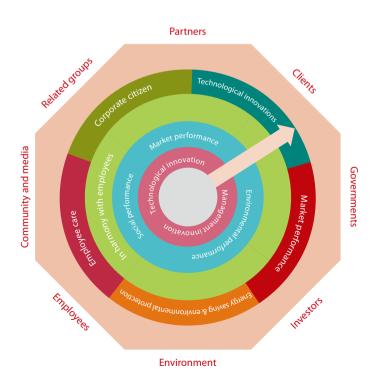




We reward our shareholders and investors with excellent operating results, serve our clients with quality products and services, growing together with our suppliers and industrial partners, and providing a platform for all the stakeholders to create values. Meanwhile, upholding the philosophy of "industry interest overweighs corporate interest", we are dedicated to promoting industry restructuring, transformation and upgrading, and seek to achieve mutual development and create win-win situation with the industry and peers of the same industrial chain.

We take up the task of industrial innovation with our strong scientific prowess, advance industry transformation and upgrading with our forward-looking vision and advanced technology, disseminate and share technical information, devote ourselves to creating greener, more comfortable and intelligent living environment.

Responsibility Model





Energy Saving & Environmental Protection

We comprehensively utilize industrial and urban wastes, producing low-carbon products with minimized consumption and emission. We are committed to providing reliable and green building materials, rendering products and service support to the industry of new energy, sharing effective green technology and management experience, exploring development modes for the harmonious coexistence of industries

and nature, and advocating sustainable

development of industry and society.



Employee Care



We pledge to guarantee the safety and health of our employees, safeguard their rights, respect their differences and make the Company a reliable partner and a happy and comfortable home to our employees. We'll build a sustainable and better future together with all our employees and deliver happiness to the society.

In the process of production and operation, we pursue mutual development and growth with the region where we operate; our achievement cannot be realized without the support of relevant stakeholders and the society, we reward the society through characteristic public undertakings. Our employees are pleased to contribute to the society and actively participate in voluntary service, practically performing the responsibilities of corporate citizens.

DEMANDS OF STAKEHOLDERS IS THE DRIVING FORCE OF THE ESTABLISHMENT OF SOCIAL RESPONSIBILITY SYSTEM

The development of an enterprise depends on the environment where it operates, and even more on the harmonious coexistence and mutual progress between the enterprise and its stakeholders. For the sake of a truly sustainable development, an enterprise shall maximize its value while satisfying the demands of all stakeholders, which are the essence of corporate social responsibility and the inevitable choice of enterprises.

We value the demands of stakeholders, adhere to the corporate's core philosophy, define the philosophy, vision and values of corporate responsibility, and establish the social responsibility mode. We respect the management experience and performance of advanced enterprises, and take an active part in benchmarking with leading enterprises both at home and abroad. Based on report studies, face-to-face interviews, on-site investigations and surveys, we have explored and established a social responsibility management system, which conforms to the actual situation of the enterprise and interests of stakeholders.

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Responsibility Governance

Organizational System

Organizations and personnel are the organizational guarantee for the implementation of social responsibility. With several years' effort, we have established a top-down organizational system of social responsibility, and formed a social responsibility management network covering organizations at all levels and member companies all over the Group, jointly performing the Group's social responsibility.

We take leading organization of social responsibility as the core with "CNBM Leading Group for Promoting Social Responsibility" headed by the Chairman. The Leading Group, the highest leading organization to promote social responsibility endeavors, is in charge of guiding and making decisions for social responsibility initiatives.

We rely on the social responsibility management functional organization of the headquarters to organize and coordinate social responsibility management, directing and supervising member companies in performing their responsibilities.

According to the unified requirement of the headquarters, each member company defines functional departments and assigns management personnel to perform social responsibility plan and scheme of the group and satisfy work requirements.

We give full play to the talent resources of management experts within the Group, and take their suggestions and advice in terms of adjustment of concept and strategy of social responsibility, preparation and revision of management systems, and the establishment and quantification of social responsibility indicator system, ensuring the feasibility and operability of social responsibility management mechanism.

We strive for social resources, actively seek help from professional consulting agencies, learn new trends of social responsibility theories, grasp latest international development tendency of the social responsibility, further study the new standards and requirements of social responsibility management, and guarantee the professionalism and compliance of the Group's social responsibility management system.

RESPONSIBILITIES OF CNBM SOCIAL RESPONSIBILITY **MANAGEMENT DEPARTMENT**

- To organize the preparation of the Group's strategic goals, planning, annual plan and implementation programs of corporate social responsibility;
- To establish and constantly improve the management system of social responsibility, and to prepare the Group's CSR management system:
- To establish and maintain the Group's organization and management system of CSR; to guide, assist and urge member companies to orderly implement
- To organize the preparation and release of the Group's annual CRS report; to guide, approve and assess the preparation and release of each member company's CRS report:
- To establish and constantly improve the social responsibility management performance indicator system; to organize, guide and assess the social responsibility information management quality of the Group.
- To establish and constantly improve the communication mechanism with stakeholders; to guide, trace and assess the communication performance with stakeholders of the enterprise.
- To organize and implement social responsibility publicity and philosophy promotion; to supervise and advance the disclosure of social responsibility information of member companies at all levels;
- To establish and constantly improve the evaluation system of social responsibility performance; to organize and carry out the evaluation of social responsibility management performance in member companies; to organize the appraisal of social responsibility; to release notifications and announcements related to social responsibility management;
- To organize and develop talent team building of social responsibility management and training sessions for social responsibility management personnel;
- To organize study on theory and practice of social responsibility, and to constantly improve the management level of social responsibility.



System Guarantee

CNBM Instructions on Performing Social Responsibility, CNBM Methods of Social Responsibility Management and CNBM Methods of Information Collection of Social Responsibility Management are released and implemented. We aim at systematically and normatively promoting the fulfillment of social responsibility by our member companies and make our social responsibility management system systematic, institutional, procedural and standardized. 3 social responsibility management systems are

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Incorporating management of social responsibility into the Group's strategic management and the overall development planning, we define work goals, guarantee measures and promotion plans, and continuously improve the performance of social responsibility management. Based



CNBM Social Responsibility Implementation Goals

Social Responsibility Philosophy	Social responsibility philosophy and key topics have certain international influence, and have already become global typical cases.
Social Responsibility Strategy	Taking harmonious development between enterprise and social environment as the core philosophy of the enterprise's development strategy.
Social Responsibility Work System	The managers in charge of the enterprise are the primary persons responsible for social responsibility matters. Developing effective and feasible social responsibility management tools, and applying these tools in the daily social responsibility management. Participating in the preparation of domestic and international social responsibility standards with certain authority.
Fully Incorporation of Social Responsibility into the Operation of Enterprise	Good performance in integrating CSR into corporate management with certain international influence.
Social Responsibility Report	The quality of CSR report has some international influence, and is highly appreciated by international authoritative organizations.
Participation of Stakeholder	Innovating participation mechanism of stakeholders as an important member of respected international organizations.
Social Responsibility Indicator System	Social responsibility indicator system has certain international influence, contributing to the improvement of global social responsibility indicator system.



Performance Evaluation

Social responsibility performance evaluation is an important method to review the corporate's responsibility performance. We take an active part in the external performance evaluation, analyze evaluation results and define key issues for improvement. We organize internal evaluations, review member companies' performance in their implementation of social responsibility through the performance evaluation system, and guide the social responsibility work of the enterprise.

We implement the external rating of the annual social responsibility report, and improve the quality of report according to the rating and suggestions of experts. We participate in performance evaluation of CRS, and carry out performance benchmarking

with corporates in this industry, and review our work progress and responsibility performance. We constantly improve and enrich the internal indicator system of social responsibility key performance, providing data basis for external submission of evaluation information and internal monitoring.

We expand the coverage of social responsibility management, and promote the performance evaluation of social responsibility management among member companies. Through comprehensive evaluation of the establishment of CRS management system, we analyze the current situation of CRS management, and formulate improvement schemes and promotion plans, continuously improving the management level.

Social responsibility management indicator is an important standard for social responsibility management, an important tool in defining the scope and content of social responsibility management, as well as an important yardstick for the evaluation of social responsibility management performance. The establishment of social responsibility management indicator system should keep some stability for benchmarking with historical data to realize self-improvement, and advance with the time to suit the development of society and enterprise. To guarantee the scientificity and feasibility of the social responsibility management indicator system, we revised the System of Social Responsibility Management Indicators of CNBM with reference to standardization documents at home and abroad, including Guidelines for Sustainable Development Report (G4) published by the Global Reporting Initiatives, and CSR Reporting Guidelines for Enterprises in China (CASS-CSR3.0) issued by the Chinese Academy of Social Sciences, incorporating features of our industry as well as the development of the Group. We added new monitoring indicators, simplified similar indicators, and deleted some inapplicable indicators. The adjusted indicator system includes six parts, namely Corporate Profile, Market Performance, Technological Innovation, Energy Saving & Environmental Protection, Employee Care, and Corporate Citizen; and the number of quantitative indicators is reduced to 343.

Responsibility Communication

Communication is the best way to

Investors	Regular reports Corporate reports Marketing activities Shareholder dialogues and feedbacks	Protecting the interests of shareholders and creditors Ensuring truthfulness, accuracy, timeliness and integrity of information disclosure	Improving information disclosure mechanism Enhancing corporate values Regulating corporate governance Improving relations with investors
Government	Releasing laws and regulations Feature reports and visits Information submission Evaluation of work targets	Requirements on safety, environment protection and compliance Securing supply Offering employment opportunities Boosting regional economic development	Lawful operation and implementation of government policies Sustainable quality operation Paying tax Offering employment opportunities
Clients	Meetings and consultation with clients Daily contacts Client feedback mechanism Telephone service	Speed of response Quality of service Special requirements Complaint handling	Offering quality product and service Advocating green consumption Improving quality management Protecting clients' privacy
Partners	Contract negotiation Bidding sessions Management meetings Correspondence exchanges Daily business communication	Price and timely payment Long-term partnership Profit distribution Information sharing Integrity and mutual benefit Risk reduction	Honest operation Promoting supplier responsibility Building effective partnership Building effective communication mechanism
Employees	Employee representative meeting Publicity of factory affairs Employment contracts Rational proposals Regular communication Petition	Employee rights Career development planning Complaint handling Occupational health Democratic management Publicity of factory affairs	Protecting employee rights Offering competitive remuneration Improving employee benefits Enhancing employee training Offering safe working environment and health protection Building effective communication mechanism Improving democratic management
Community and media	Signing public welfare agreements Taking part in voluntary service Daily contacts	Environment protection Jointly building a harmonious community	Timely information disclosure Increasing participation in public welfare Participating in community activities
Social organization	Taking part in meetings or activities regularly Daily contacts	Environment protection Jointly advocating sustainable development	Playing the role as a member Offering economic and technical support Building cooperative relationship

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We have established a sustainable communication mechanism with external stakeholders, continuously expanding the channels and scope of communication. We value communication and cooperation in our daily operation and integrate the idea of social responsibility into our daily operation and communication; we inquire opinions and suggestions through questionnaires, visit important stakeholders to understand their demands. We have built a convenient and smooth online feedback channel, keeping us informed of the opinions of stakeholders. We regularly collect and collate the evaluations from stakeholders, which become important reference for the management decision; based on the feedback of stakeholders, we continuously improve our work and respond in an active manner.

The management of the Group highly values social responsibility communication. They participate in social responsibility communication activities at various levels and scopes. Through the means of forums, leader mailbox and meeting

of employee representatives, they have actively communicated with internal stakeholders; they are also presented at the communication activities with external stakeholders, timely arrange improvements according to key opinions and suggestions; when taking part in external activities, they are willing to share their experience in fulfilling social responsibility, playing an active role in spreading the idea of social responsibility. The active participation and promotion from management of the Group have significantly enhanced the performance and quality of the Group in fulfilling social responsibility.

We timely publish information regarding responsibility fulfillment in the column of social responsibility on our corporate website, continue to issue annual social responsibility reports, present our achievements in social responsibility and respond to the demands from stakeholders; we have established information release mechanism on emergencies for timely information disclosure, enhancing the enterprise's transparency and credulity.

Nearly

18,000

person-times participated in the external communication of stakeholders in 2013.

5,068

occasions of communication with external stakeholders were presented with corporate senior management in 2013.



Sharing Responsibility

Organizational Action

Responsibility Research

We have actively participated in compilation and specific studies of social responsibility standards. We have continuously assigned management experts to join the compilation of amendment to the "Guidelines on Corporate Social Responsibility Reporting for Chinese Enterprises 3.0", an authoritative standard issued by Chinese Academy of Social Sciences on preparation of social responsibility reports in China; we participated in the studies of "Social Responsibility, Corporate Governance, and Internal Control Programs" hosted by China Group Companies Association and provided opinions for Chinese enterprises to fulfill social responsibility and achieve sustainable development. We have also actively participated in events specialized in social responsibility, focused on the latest trends in the field of social responsibility to acquire information resources for the Group's continuous improvement in fulfilling social responsibility.

We attach great importance to the research of social responsibility management. Through the research and benchmarking, system and continuously enhanced the competence of our management. Based on a thorough research on relevant standards and sustainable development at home and aboard, we have established an indicator

system for the Group's social responsibility management; based on the results from benchmarking on social responsibility management systems of overseas building materials companies and domestic enterprises, the framework of the Group's social responsibility management system has been set up and improved. We carefully organize benchmarking for the improvement of the enterprise's management and the benchmarking of social management, further define the focus and goal of improvement, solidify and maintain the leadership of the enterprises and strive to reach world class through specific improvement.

we have further improved the management concerning social responsibility management

United Nations Global Compact

United Nations Global Compact is the world's largest and supreme initiative on corporate social responsibility and sustainable development with most extensive influence. The organization was proposed by Kofi Annan, then Secretary General of the United Nations, in 1999 at the annual meeting of the World Economic Forum in Davos and officially launched at UN Headquarters in July 2000. "Global Compact" is established to mobilize worldwide enterprises to abide by the standards with shared values, implement a set of necessary social rules, directly participate in the actions for



external researches on social responsibility were participated in 2013.

31

national social organizations were joined by the headquarters of the Group.

2

international organizations for social responsibility and sustainable development were joined.

Responsibility Spread

We endeavor to disseminate the concept of responsibility to suppliers, clients, and industrial partners through value chainbased activities and cooperate with them to carry out responsibility-based activities. We share knowledge in social responsibility management and publicize corporate practices of social responsibility on corporate website; we actively participate in professional forums, share achievements in social responsibility management, and advocate the culture of social responsibility; suppliers' grade on quality, creditability, environmental protection, occupational health, and employees' rights are included

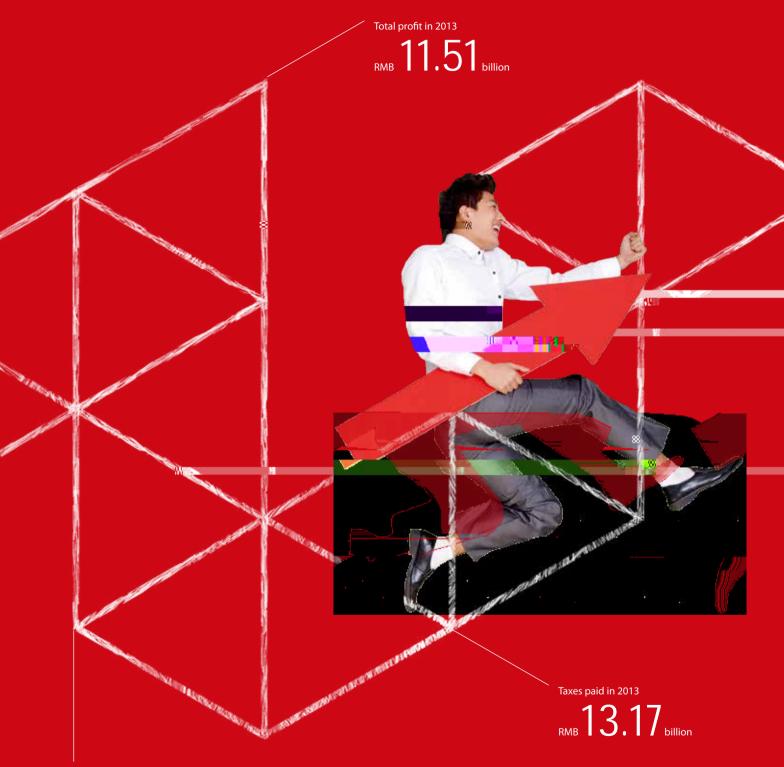
into evaluation system, and they are provided with free trainings on safety, laws, and environmental protection. We guide suppliers to provide responsible products and services, introduce green and environmental concept into the system of products and services, disseminate the concept of green consumption and low-carbon life among consumers; we consciously abide by industrial self-discipline rules, advocate industrial reengineering and value improvement, and cooperate with industrial partners for sustainable development.





We reward our shareholders and investors with excellent operating results, serve our clients with quality products and services, grow together with our suppliers and industrial partners, and try to become a platform for all stakeholders to create values. Meanwhile, upholding the philosophy of "industry interest overweighs corporate interest", we are dedicated to promoting industry restructuring, transformation and upgrading, and seek to achieve mutual development and create win-win situation with the industry and peers of the same industrial chain.

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Sales revenue in 2013

 $_{\mathsf{RMB}}\,252.26_{\,\mathsf{billion}}$

Excellent Corporate Management

CNBM establishes a standard parentsubsidiary corporation management system. As the strategic, resource and cultural center, the headquarters of the Group exercises the rights and functions of capital contributor. The subsidiaries (sub-Group) serve as business platforms, focusing on their expertise and principal businesses to develop profit centers based on their brand awareness and market share. As operating entities, the enterprises at the primary level implement strict cost control while assuring quality. By establishing and implementing a "standardized and stratified model" of management, we align the pace of different enterprises with orderly management in the course of rapid development.

We create new development concept and transform development mode, through which we not only achieve our own leaping development, but also lead the industry of building materials in China to a significant transformation of traditional operation mode and promote the transformation and restructuring of the industry. We adhere to the path of capital operation, consolidation and restructuring, and integrated innovation, creatively propose and implement a series of new concepts and measures, namely "market-oriented operation of central SOEs", "five-mode management", "instructor system", etc., whichhelp us not only achieve leaping development and become one of Fortune Global 500, but also provide solutions to the sustainable development of the industry with overcapacity and enterprises in the fields with full competition, boosting the development of enterprises with ownerships, providing new perspective of market-oriented reform for central SOEs".

We focus on the problems occurred during the process of rapid expansion through consolidation and restructuring, and theorize the typical practices and understanding learned from management, with the concepts of "eight management measures" and "six-star enterprises" proposed.

"EIGHT MANAGEMENT MEASURES"- BENCHMARKING MANAGEMENT

The purpose of benchmarking management is to improve and progress through learning from better enterprises. Through systematically benchmarking against management indicators of advanced enterprises in "human resource, financial resource, and materials". Sichuan Yunlian Southwest Cement Co., Ltd. (hereinafter referred to as Yunlian Southwest" includes all factors concerned with its production and operation into benchmarking, with a closed circle of management procedure from problem input to result output formed, which is necessary for the company promoting digitalized and standardized management. The indicators of "human resources" refer to "morality, capacity, attendance, performance, and integrity"; the indicators of "financial resources" refer to "price, cost, profit, loans receivable, and cash flow"; the indicators of "materials" refer to "output, sales, quality, coal consumption, and power consumption". According to its actual conditions. Yunlian Southwest has achieved gradual improvement (from revision to standardization and then innovation) through making new benchmarking forms and crosswise and Depending on management improvement and the construction of internal control system, we deepen the management integration and promote managements towards routinization, normalization, institutionalization, and standardization. We strengthen the leading role of strategic planning, complete the mid-term review on the implementation of "Twelfth Five-Year Plan", and launch the formulation of "Three New" strategy and development planning on the development of glass sector; we improve the assessment on business performance, deeply advance EVA evaluation, intensify the guidance in restructuring and scientific innovation, and utilize the leading role of performance assessment; we continue to streamline and integrate companies to shorten management chain and improve operation efficiency; we strictly control guarantee risk and further guide companies to reduce capital costs and preventing business risk; we deeply investigate and immediately adjust the thinking for risk management and expand all-round risk management and the

coverage of prevention against legal risk; we intensify the management on the audit plans of subsidiaries, with 614 audit projects implemented in the full year.

We firmly transform the Group's control and management from qualitative mode to quantitative mode, from administrative management to business management, and from consolidation prior to integration to consolidation and integration at the same time through the integration of informationization and industrialization. Five subsidiary enterprises of the Group have been successively honored as "Benchmark Enterprises for Integration of Informationization and Industrialization" by the Ministry of Industry and Information Technology; The Construction of Safe **Production Management Information** System For Improving the Groups' Capacity of Management and Control was awarded with the 2nd Prize of the National Awards for Innovative and Modern Corporate Management; 14 projects concerned with the integration of informationization and

industrialization, including The Research and Application of Production Management Information System for Cement Production Line with a Daily Capacity of 10,000 tons, have been awarded with 1st Prize and 2nd Prize of Modern and Innovative Management Achievement in the National Building Materials Industry.

Creating Excellent Performance

The domestic building materials industry revived in 2013. Data published by Ministry of Industry and Information Technology indicated that over the year, the main operating income of the industry achieved RMB 6.3 trillion (increasing by 16.3% on a year-on-year basis) and the profit of RMB 452.6 billion (increasing by 18.2% on a year-on-year basis); the domestic cement output was 2.42 billion tons, increasing by 9.6% on a year-on-year basis; the domestic sheet glass output was 0.78 billion weight cases, increasing by 11.2% on a year-onyear basis; the commercial concrete output was 1.17 billion m³, increasing by 22.5% on a year-on-year basis. An initial success has

been achieved in curbing excess production capacity in the fields of cement and sheet glass. A good development trend has been presented and a positive progress in structural adjustment has been made in both fields of building materials product and deep processing.

In 2013, to actively address the challenges of economic slowdown, short demand, excess production capacity and price fall, we carefully studied on the market situation, timely adjusted the operation strategy, and took effective measures according to the deployment of "integration, optimization, efficiency improving, debt reducing", based

on which, stable progress has been made. By Dec 31, 2013, the total assets of CNBM have reached RMB 364.4 billion, accompanied with the operating revenue of RMB 252.3 billion (increasing by 16% on a year-on-year basis), a total profit of RMB 11.5 billion (increasing by 3% on a year-on-year basis), a net profit of RMB 8.8 billion (increasing by 2% on a year-on-year basis) and paid taxes of RMB 13.2 billion. In the end of 2013, assetliability ratio was 81.89%, decreasing by 0.06 percentage points on a year-on-year basis; the SSCM (security surplus cash multiples) was 1.6, increasing by 0.29 times on a year-on-year basis.

Wang Yong, State Councilor

"In recent years, by persistently implementing requirements of the Party Central Committee, the State Council and the SASAC, CNBM has not only opened up an innovative developing path for traditional central SOEs in the fields of industrial development, technological $innovation, transformation\,\&\,upgrading, management$ improvement and modern enterprise system, but also made outstanding achievements in respect of asset, income, profits, fulfillment of military production, civil production and research

The sales of cement up to 220 million tons (increasing by 33% on a year-on-year basis); sales of commercial concrete reaches about 87 million m³ (increasing by 174% on a year-onyear basis) based on favorable interaction with market; benefited from the value of international brand in the plasterboard business, sales of plasterboards reaches 1.23 billion m² (increasing by 17% on a year-on-year basis); more than 3200 pieces of fan blades are sold based on "dual adjustment of customer and product; sales of glass fibers reaches 820,000 tons by giving play to the advantages in technology and cost; an anti-trend increase is realized in engineering service sector by vigorously developing solar engineering service based on the glass and cement engineering services.

The revenue of the inspection and certification service of China Building Materials Academy (CBMA) increases substantially, and multiple results, including cement application in hydropower project, optd mod ptueu4 -28.763 c2cacueu4.ost; an

























PROTECTING SHAREHOLDERS' RIGHTS AND INTERESTS

As a foregoer of developing mixed ownership economy, the Group holds 6 domestic and overseas listed companies. Non-governmental capitals account for two thirds of the member companies' total capitals. Aiming at maintaining all shareholders' interests, the listed company members, such as China National Building Materials Company Limited, strictly obey related laws and regulations and the articles of association, continuously improve their governance structures, and perfect their governance systems and internal management flows. They practically protect shareholders' interests by continuously enhancing system building and improving the quality and efficiency of investor relation management. Shareholders of company exercise their rights by holding shareholders meetings, including the rights to know, make suggestions on and inquire the operation of the company. They implement daily operation, supervision and management of the company through the board of directors and the board of supervisors. With close attention paid to protecting the rights of medium and small investors to get involved in operational decision-making, these companies give full play to the role of independent directors in protecting interests of such investors, and set up an effective mechanism to maintain seats for and allow disinvestment by such investor. Decision-making by major shareholders or controlling shareholders and their control over board of directors and board of supervisors are regulated to protect interests of medium and small investors. According to the requirements for corporate supervision in listing rules and Information Disclosure System, these companies truthfully, accurately, completely and compliantly disclose periodic financial data, significant matters and the matters required to be disclosed. In case a company encountered an emergency possibly influencing its share prices, the secretary of the board of directors would organize study on handling, and timely disclose related information to investors in accordance with related procedure. Through multiple channels, such as information collection, research analyst's report, road show by management level, attendance at shareholders meeting, inviting investors for field survey and receiving visiting investors, these companies analyzed appeals of interested parties, and built a harmonious relation with shareholders and investors with mutual trusts and win-win situation.

Market Performance

We are dedicated to offering safe, reliable,

Quality Assurance

Based on years of production practice, we have built complete quality management systems and process to implement quality management throughout the procedure from procurement of raw materials to delivery of products. To lay a firm foundation for product quality from the source, we pay close attention to quality inspection and ratio of materials. To assure the quality control level during production based on complete organization systems and procedure control mechanisms, our member companies are instructed to build standard quality management systems. By means of multiple mechanisms and activities (quality group activity, quality benchmarking, quality appraisal, etc.), we continuously improve quality management level and

product quality. Customers are actively invited to get involved in product quality control, and a customer evaluation & feedback mechanism is built to timely and continuously improve product quality upon feedbacks from customers. Our efforts are recognized by customers and national quality supervision and inspection departments. Our products and member companies have been titled as national/provincial/municipal inspection-free products and quality products for many times. In 2013, in the 14th Cement Quality Indicator Inspection & Comparison, 144 enterprises under the Group stood out in near 1000 participants, and five of them won the "Special Prize for Cement Enterprise".

In 2013, the pass rate of quality standard system certification on manufacturing enterprises was

82.6%



Driving Supply Chain to Perform Responsibilities

Supply Chain Evaluation

Performing social responsibilities is included in supplier evaluation system. Our suppliers are dynamically evaluated in terms of law compliance, environmental protection, protection of laborer's rights and interests; any form of commercial bribe is prohibited. We urge our suppliers to continuously improve product quality, supervise and push suppliers to pay attention to physical and psychological health of their staffs, and irregularly assess responsibility management. In each bidding for production line construction, energy saving and environmental protection are essentially included in bidding document. During construction, we pay sustained attention to occupational health, safe production and protection of staffs' basic rights.

Responsibility Procurement

The concept of social responsibility has been integrated into procurement management. We stick to "sunshine procurement", and spare no efforts to eradicate commercial bribes in procurement by pushing regional procurement-bidding integration, bidding process normalization, bidding performance opening and informationbased bidding management. The concept of sustainable development has been integrated into our procurement system. In purchasing materiasl, the products that are manufactured with low-carbon environment-friendly processes and harmless to environment are preferred; in selection of energy, non-fossil energy (low-grade energy, urban refuses, biomass energy, etc.) is vigorously preferred; recyclable products with simple package are preferred in purchasing office supplies and other consumer goods.

In 2013, the pass rate of quality management system certification on suppliers in long-term cooperation with CNBM was

61.4%

In 2013, the pass rate of occupational health and safety management system certification on suppliers in long-term cooperation with CNBM was

44.3%

In 2013, the rate of responsibility-based procurement was

93.2%

person-times of subcontractors' and suppliers' employees participated in safety, energy and law training in 2013.



Compliant Management

Lawful Operation

We insist on the working rules of law compliance and honest operation. A perfect legal affair management mechanism has been built. Major decisions and management contracts must be subject to a strict legal review procedure. Rules and regulations can be issued and put into practice only if approved by the legal affair department.

We insist on the integration of law popularizing activities with legal affair management for interactive promotion. The concept of "compliance creates value" is deeply publicized by means of law-popularizing activities in different forms (National Legal Publicity Day, legal training lecture, legal knowledge contest, etc.). To prevent risks in a systemic way, practical experience is shared in legal case explanations and exchange of experience in legal affair management.

64,000 person-times of employees participated in legal publicity and education in 2013.

In 2013, the rate of legal review of rules, regulations, management decisions and management contracts was

100%



Anti-corruption

We're fully aware that anti-corruption is as important as marketing and management. Both operation performance and anti-corruption are mandatory quotas decisive for development. Anti-corruption is firmly considered as a major agenda, integrated into all tasks of reform, development and stabilization.

We persistently develop anti-corruption and anti-bribery systems, and continuously push high-efficiency running of normalized management activities. With attention paid to integrity in work, efforts are made to build the culture of integrity; to give full play to its effects, efforts are made in efficiency supervision and inspection.

Organizations and teams for discipline inspection and supervision are further

developed. The member enterprises are pushed to establish and perfect bodies for discipline inspection and supervision, organize professional training for discipline inspection and supervision cadres, thus continuously improving work efficiency and quality.

In 2013, the number of efficiency supervision and inspection projects was

145 32**,**000

person-times of employees participated in anticorruption (anti-commercial bribery) training in 2013.

Mutual Trust and Bene_ts

Honest Operation

Integrity has always been our value orientation and code of conduct. The member companies' conducts are widely recognized and reported by the society. Multiple banks have signed cooperative agreements with us to offer general credit limits. We were again awarded as AAA in credit rating by China United Assets Appraisal Group in 2013. In 2013, the performance rate of business contract was 98.0%

Fair Competition

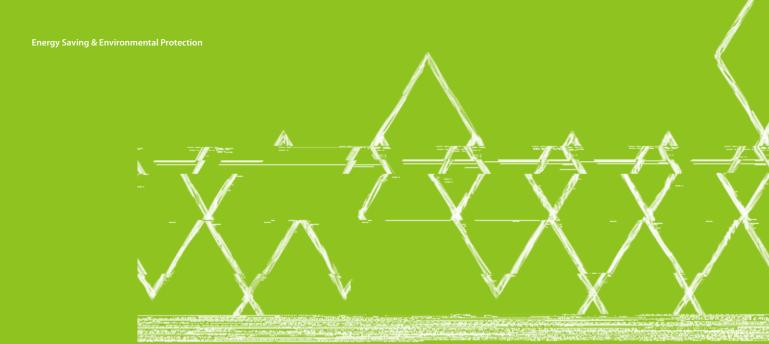
We insist on fair competition without infringing competitor's or partner's rights by improper means or misconducts (fraud, bribery, malicious price cutting, etc.), and advocate building good partnerships based on free will and equality. In operational activities, the concept of "harmonious relationship with competitors" is observed, voluntarily

maintaining harmonious environment of the industry with fair competition. In international operations, we firmly maintain national interests and our dignity, and actively respond to malicious anti-dumping events. With great attention paid to promote the concept of fair competition, staffs are organized for fair competition training.

22,000 person-times of employees participated in honest operation and fair competition trainings in 2013.



Keeping the responsibilities of leading enterprises in mind, we serve economic and social development with unremitting efforts, offer opportunities of employment, pay taxes and support programs for public good during our growth, making contributions to national economy and harmonious development of the





Energy Saving & Environmental Protection

We comprehensively utilize industrial and urban waste resource and manufacture low carbon products with minimal consumption and emissions; we are committed to providing the society with green and environment-friendly building materials with reliable quality and providing product and service support for new energy industry; we are delighted to share effective energy saving technology and management experience, explore green development mode, and advocate sustainable development of the whole industry and society.

- **50** Coping with Climate Changes
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- **58** Green Products System
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In 2013, investment for energy saving and environment protection reached

1.45 billion



Coping with Climate Changes

Since the world today is facing an environmental status quo with resource exhaustion, worsening ecological system, and extreme weather events, all walks of life are highly concerned about climate change and actively exploring an effective way to achieve sustainable environmental development. With great concern over climate change, the concept of sustainable development is integrated into our

development strategy. From the perspective of stakeholders, low-carbon development concept is integrated into the whole process covering product R&D, technical design, selection of raw materials, field management, and customer services. We have established a distinctive and highly effective business model for sustainable development to cope with climate change together with stakeholders.

Ban Ki-moon:

"The Positive Action of Chinese Enterprises like CNBM Tackling Climate Change Is Impressive

Energy-saving and Environment-friendly Management Model of CNBM

We endeavor to reduce resource and energy consumption in manufacturing process and the emission of various pollutants to the natural world. continuously expanding ways to achieve safe and efficient utilization of industrial waste resources in building materials industry, providing service support for efficient and hazardfree disposal of urban wastes; we maintain a clean production environment and protect the ecological environment to achieve a harmonious coexistence with the nature

We share low-carbon product manufacturing processes, energy saving technology and management experience, provide detection, diagnosis, and system optimization solutions in respect of energy efficiency and environmental protection, and constantly strive to achieve sustainable development jointly with our industrial partners through our efforts and professional services.

Green Culture

Green Manufacture Green Products

We utilize reliable techniques and production processes to produce and manufacture green and environment-friendly building materials, promote prefab house system, advocate green consumption of building materials and provide materials to protect energy conservation for buildings; we provide new energy products and services including rotor blades and solar PV modules to boost a more extensive and efficient application of clean energy.

We create and disseminate green culture through green procurement, green R&D, green service, green proposal, and green public welfare, influence and drive stakeholders including suppliers, clients, partners, competitors, and communities to work together with us for the purpose of seeking effective ways to achieve sustainable development.

Responsible and Exemplary

We keep corporate responsibilities in mind and devour to become a practitioner, fugleman, and advocator in coping with climate change. We actively undertake the task of energy saving and emission reduction, contributing to China's national low-carbon action. From 2011 to 2015, 214 member companies of the Group will reduce energy consumption by approximately 4 million tons of standard coal under "10,000 Enterprises Energy Conservation"

It is estimated that from 2011 to 2015, the emission of CO₂ will decline by

9.26

million tons

COPING WITH CLIMATE CHANGE AND WORK TOGETHER FOR A BEAUTIFUL CHINA

In addition to creating social wealth and pursuing economic benefits, enterprises should also focus on social and environmental benefits, adopt the model that is beneficial to both ecological cultivation and corporate development, and achieve sustainable development and win-win cooperation with stakeholders through responsible investment and production and operation. At "China Summit on Caring for Climate" held on July 30, 2013, CNBM and other 50 enterprises jointly signed Proposal for Chinese Enterprises on Coping with Climate Change that was launched by China Enterprise Confederation, China Federation of Industrial Economics, and China Association for Public Companies, promising that: adhering to the general policy of giving priority to saving, protection and natural resilience, focusing on green development, cycle development, low-carbon development, forming an energy-saving and environment-friendly production model, reversing the trend of worsening ecological environment at source, creating a good environment for people to produce and live, contributing to global ecological security.

Green Management

Based on the characteristics of the building materials industry, we set up a green management system, which is appropriate for a diversified and comprehensive industrial Group, aiming at building an energy-saving and environment-friendly enterprise. We strictly abide by national laws and regulations, national quota on energy consumption and emission standard, and execute procedure for examination and approval; we establish and develop institutional system, assign professional managers, and continuously improve the quality of the management on energy saving and emission reduction; we make management strategy, objective, and management system on energy saving and emission reduction, as well as guide, monitor, and assess the energy-saving and emissionreduction practices of member companies;

we carry out standardization management to achieve energy saving and consumption reduction by efficient management; we advocate the implementation of new management methods and mechanisms on energy saving and environmental protection, finance through multiple channels, expand investment in energy saving and emission reduction to ensure available financing and remarkable benefits; we establish information disclosure mechanism, consciously accept the supervision from stakeholders, and integrate the opinions of stakeholders into energy saving and environmental protection management system; we propose green office and create strong low-carbon culture through characteristic publicity and experience activities.



Energy Saving and Environmental Protection Management System of CNBM

57,000

employees of the Group attended trainings in regard of energy saving and environmental protection in 2013.

Approximately

70

on-site conferences were replaced by video conferences in 2013.

We strictly implement relevant national laws, regulations and standards. We strictly abide by industry access system, quota on energy saving, standard on pollutant emission, and requirements on clean production, carry out "three simultaneousness" policy for energy saving and environmental protection on fixed assets investment projects, and carefully perform feasibility and environmental impact assessment of new, rehabilitated, or expanded projects. We establish early warning system for environmental risk and contingency plan to prevent and reduce possible environmental hazards.

We've set up a leading group responsible for energy saving and emission reduction, established a social responsibility and energy saving and emission reduction office at the headquarters of the Group. Member companies have established energy saving and emission reduction functional organizations of different categories and levels, achieving an overall coverage for the Group's energy saving and emission reduction management system.



We integrate annual fund for energy saving and emission reduction into the overall budget management system, formulate expenditure plan for energy saving and emissions reduction, and guarantee the implementation of technological upgrades and management improvement. In order to ensure investment in energy-saving technological transformation, we support enterprises to use cooperative energy conservation and environmental protection such as energy performance contracting, clean development mechanism, etc.

We gradually establish and improve information disclosure mechanisms for energy saving and emission reduction. We regularly report information about energy consumption and pollutant emission to stakeholders and accept the supervision of stakeholders by releasing annual energy saving and environmental protection performance via annual social responsibility report. We continuously improve the communication mechanism for stakeholders and regularly report environmental performance to local residents.



We attach great importance to the construction of energy saving and emission reduction team. Our industrial enterprises assign personnel to be in charge of energy saving and emission reduction in accordance with relevant national laws and regulations. Management personnel on key positions have obtained professional certificates. We make full use of internal and external educational resources to intensify the training provided for management personnel on key positions, enrich employees' knowledge on energy saving and emission reduction, and improve the management competence of employees.

We make strategies, general policies, plans and systems on energy saving and emission reduction, improving our work through three systems covering measurement and statistics, monitoring and analysis, evaluation and assessment. We implement category-based management for the Group's member companies and formulate classified objectives and assessment schemes according to the characteristics of member companies.

Standardization management system is implemented. Manufacturing companies of the Group have established standardization management systems regarding quality, environment, and energy, most of which have been certified.

During the feasibility research, construction, renovation, and acceptance check of projects, we actively collect advice from local residents and main local stakeholders, minimizing the negative impact of our business activities on society and environment.

Adhering to the concept of green office, we have formulated detailed plan on saving electricity, water, and office consumables. Performance on green office is included in routine monitoring and evaluation system. We actively promote the construction of video conference system to reduce on-site conferences; we arrange business travel in a scientific way and prefer low-carbon vehicles.

Resource Conservation

Production Improvement and Consumption Reduction

We value mineral resources. In respect of mine production and development, we adopt top-down bench mining approaches, combining with open-pit mining, road development, lateral stripping and bench mining, so as to prevent geological disasters at the mining areas. In respect of production blasting, multi-row hole and millisecond blasting method is adopted to reduce the waste of resources and environmental pollution caused by blasting vibration. In respect of ore crushing and transportation, ores are usually transported

by conveyer belts connecting pits and plant areas. These conveyer belts are enclosed, thus avoiding fugitive dust caused by vehicles transport and reducing energy consumption as well lessening the impact on the surrounding living environment. In respect of mineral resources utilization, we accurately determine the composition of mineral resources of different batches, make reasonable formula for raw materials compounding, efficiently using low-grade ore and fully demonstrating the value of every mineral resource.

Efficient Use of Energy

We strive to improve energy utilization efficiency and level. Effective transformation of energy-saving techniques is implemented for the purpose of achieving continuous reduction in consumption and emission per unit of products. Backward production equipment is eliminated timely. Combustion efficiency is continuously improved through upgrading furnaces; power utilization efficiency is increased through promoting energy conservation of motor systems; the consumption of fuel oil for transportation is reduced through performance assessment and benchmarking. The Group's energy consumption for per unit of main products continues to be leading in the industry.

We strive to reduce use of fossil energy in the production process and make full use of low-grade energy and renewable energy, with comprehensive utilization of coal gangue, sludge, urban wastes and other combustible wastes to replace fossil energy including coal at our production lines. We have constructed cogeneration systems at our qualified cement and glass production lines, recycling and converting the waste heat produced during production into electricity for production purpose, reducing the amount of our purchased electricity. Cement manufacturers newly incorporated into our Group have actively carried out technical verifications and developed plans for the construction and coverage of wasteheat systems. To constantly improve the efficiency of waste heat reclamation, on one hand, we improve management and include the rate of service power at waste heat power station and cogeneration rate per unit of products into the system of key monitoring indicators and constantly improve operation through benchmarking and assessment; on the other hand, through active technical innovation and renovation, we operate intelligent control and improve overall efficiency of the system.

In 2013, the percentage that the cement-related cogeneration output accounted for the total electricity consumption was

23.3%

In 2013, the energy consumption per output value of RMB 10,000 declined by (on a year on year basis)

6.0%

Water Conservation

We attach great importance to the protection of water resources. The water used in residual heat systems and cooling systems of our manufacturing member companies is recycled. Other water resources for auxiliary processes such as flushing are effectively recycled through the settlement and sewage systems treatment. In 2013, the Group's commercial concrete business expanded further. Due to its production process, compared with cement production, concrete products consume much more water, which

affects the Group's water consumption structure. Fresh water consumption per unit of output value rose on a year-on-year basis. We took the water consumption per unit of cement products as a key monitoring indicator and enhanced benchmarking with water consumption indicators of advanced enterprises to continuously improve our capacity and efficiency in water conservation and ensure efficient and rational utilization of water resource.

In 2013, the utilization of recycled water accounted for

96.4%

Recycle

We make full use of our edges over techniques to recycle industrial waste resources. Under the precondition of guaranteeing quality and safety, we continuously expand portfolio of waste resources that can be recycled and increase the utilization efficiency. We have gradually achieved effective utilization and harmless

disposal of industrial waste, industrial byproducts, environmental by-products, sludge of sewage plant, construction waste, and urban waste at production lines of building materials, thus avoiding resource waste or environmental pollution.

tons of industrial by-products and solid wasted were consumed by the Group.

82,000 tons of urban waste were consumed by the Group in 2013.

COMPARISON OF INDICATORS RELATED TO CO-PRESSING WASTE BETWEEN NEWLY-BUILT REFUSE INCINERATION POWER PLANT AND CEMENT KILNS



Note: *If we utilize the existing cement kilns with new-type dry process the estimated investment will be about RMB 30 million.

Protecting Ecological Environment

Environmental Improvement

We are committed to development in harmony with nature and endeavor to reduce environmental pollution and ecocide caused by the companies' operation.

We strictly abide by relevant national laws and regulations, policies and standards on environmental protection, and strive to reduce the discharge of wastewater, waste gas and waste residue in the production process. Through effective technologies on environmental improvement and delicacy management systems, we have reduced discharge of wastewater, waste gases and residues discharges at production lines to or below the national emission limit.

We reduce the formation and emissions of pollutants such as SO2 and NOx in waste gas through the application of clean energy and increase of oxygen content in combustion systems. We actively advance the construction of denitration systems

in cement production, under which we can sharply reduce the emission of NOx by effectively utilizing technologies on low-nitrogen combustion and selective reduction; we explore the construction of matching information control system, rationally control the usage amount of reducer, extend the service life of the system, and control the consumption of reducer and the cost of denitration; the dust in waste gas is effectively reduced through dust removal technologies, namely bag type dust removal. We have achieved integrated utilization of technologies on desulfurization and denitration, dust removal, and residue heat power generation to systematically control the quality of waste gases. We strive to achieve "zero" discharge of wastewater through the construction of sewage treatment and recycling system at the production base of galls fiber.

We attach great importance to waste residue management. Through technological innovation and delicacy management, we have been able to reprocess wastes generated in production process, recovered product packaging and substandard products and recycle those are tested to be qualified as raw materials, thus realizing the recycling of self-produced solid wastes. We pay close attention to noise control and employee protection, monitor and control the impact of production noise on the health of our employees and neighboring communities in accordance with national noise control standards. We strive to reduce noise hazards through optimized layout of production lines, use of physical isolation, green shielding and occupational protection. 93.6% of our manufacturing member companies reach the noise control standards

Cement industry, a resource-intensive industry, the pollutants of which cause relatively heavy environmental load. Backward cement production always leaves an impression of dirty air and smoke obscuring the sky. Sichuan Wangcang Southwest Cement Co., Ltd. joined CNBM as a member company in 2012. Located in Guangyuan, Sichuan, where there are many mountainous regions and criss-cross ravines and gullies. It is difficult to find a large flat ground. The plant's production is closely related to surrounding environment and residents, with much attention attracted by environmental security.

Wangcang Southwest attaches great importance to protecting ecological environment, proposing the improvement goals of "no dust in w25(n)4(pllutan)4(ts of whiclot4 l22ca)46(en)4n stimizTqu(p)23(no

Green Products System

We integrate low-carbon and environment-friendly concept into the whole production process, including R&D, design, production, package, sale, and recovery of products, providing clients with systematic low-carbon and environment-friendly products and

services. We endeavor to promote low-carbon achievements, provide green services, and disseminate environment-friendly concept to contribute to the sustainable development of the whole society.

Moisture-proof

We adopt the design of open ventilation layer according to the principle of air heat cycle to achieve cross-ventilation and indoor air ventilation; the main structure and the decoration layer of exterior walls are directly equipped with "one-way breathing paper", an effectively barrier to the entrance of external moisture and other corrosive gases into the main structure, through which the indoor moisture can go out.

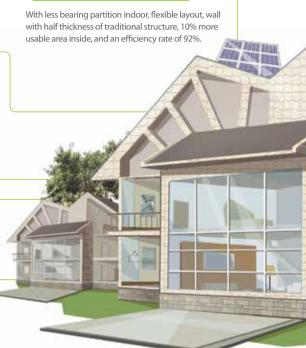
Sound insulation

Compound walls with multilayer cavities made of different textures and of various thicknesses provide even better performance in sound insulation than five-star hotels.

Fire prevention

The materials of exterior walls and for heat insulation are level-A noninflammable materials that can fully meet the national requirements for small and medium-sized buildings to prevent fire.

High proportion of effective area



Anti-seismic and wind-proof

Massive flexible structure, 30% of the weight of traditional brick-concrete structure, lightly respond to earthquakes, with anti-seismic and fastened joint components; it can meet the requirements for protection against 9.0-magnitude earthquake and 12-class typhoon.

Heat insulation

"Dual heat insulation (internal and external heat insulation of exterior walls) + double interlayers (open ventilation layer and closed air layer)", effectively avoid "dew formation in the winter" and "damp in the summer", with energy consumption declining by over 75% compared with traditional housing structures.

Green Building Materials

We adjust the product structure of basic building materials. We actively push cement industry to produce "high-grade, specialized, ready-mixed and commercialized" cement, providing clients with green low-carbon cement products of high quality. We lead the glass sector to manufacture "high-end, LOW-E, ultra-thin and high-performance" glass, with a focus on LOW-E glass, enhancing the functionality of building glass products and offering materials support to architectural energy conservation.

We make research and develop new building materials, which is carried out in accordance with four core concepts, namely energy saving, safety, comfort, and ecology. We aim to enhance the thermal insulation property of products to reduce energy consumption, minimize the use of raw materials that are radioactive, poisonous or harmful, so as to guarantee safe use and living, highlight functions in sound insulation, moisture-proof and permeability to improve living comfort, develop and use

industrial waste resources as raw materials to produce building materials to reduce the consumption of natural mineral resources, and achieve maximized recycle and effective disposal after service life. Currently, the system of new building materials, including gypsum plaster board, GeiL board, GeiL tile, etc. is widely used in architectures at home and abroad, contributing to energy conservation in building industry.

Environment-friendly and convenient

Industrialized prefabrication, field assembly, shortterm construction; environment-friendly construction site, no pollutions of noise, dust or sewage

Long Durability

Highly-galvanized process is adopted for the corrosion prevention of structural steel and bolts; the main structure employs a safe structural design for 95-year service life.



Extensive application

Applicable to a variety of climatic zone (severe-cold or tropical zones), landforms (islands in the sea, flat ground, sloping fields, mountainous regions, desert, etc.), and geological conditions (sandy soil, weak soil, rock, etc.)

Intelligent compatibility

A variety of devices and pipelines can be embedded in compound walls and floor structure; intelligent control is adopted; visual intercom for burglary prevention, fresh air ventilation, central air-conditioning, central dust removal system, ground source heat pump, rainwater collection, and solar system can be integrated well.

Recycling

Over 90% materials of the house's main parts can be recycled, which can eliminate massive building rubbish caused by demolishing the house.

Pre-fab Housing

We supply integration service on housing products, providing the construction industry and residents with systematic construction product solutions and building schemes. Through an industrialized operation mode featuring industrial design and production, field assembly, green and environment-friendly integration of building materials, and rich ecologically functional interfaces, we make the architecture with "negative energy consumption" and "zero release" possible.

BNBM HOMES ASSISTS THE TEAM OF TSINGHUA WITH BUILDING "O-HOUSE"

BNBM HOMES Co., Ltd. (hereunder abbreviated as "BNBM HOMES") has always been committed to providing clients with one-stop "Energy House" housing solution. Thanks to its technological advantages in building structure and walls' energy saving and heat insulation, BNBM HOMES participated in Solar Decathlon together with Tsinghua University and University of Florida as a partner of "O-House", a kind of "zero-energy consumption" building products. After intense competition in ten events, "O-House" obtained good results – ranking 5th in terms of comprehensive performance and ranking 1st in three single areas including "indoor comfort".

The design of "O-House" gives prominence to four features: "Garden-style" residence with cultural connotation, "modularized" residence with redefinition, perfect 'zero-energy consumption" residence, and intelligent and considerate "future-chip" residence. In terms of modular structural design, the wall of each module is equipped with waterproof layer and reinforced insulating layer to ensure self-sufficiency of energy of each module; targeted clients can select different compound modes according to the living



needs of residents. In respect of building energy consumption, the energy consumption for house operation can be fully covered by solar energy. The roof of building siphon drainage, with slope independently formed in each module from south to north and rainwater flowing into the pool for biological cleaning; after the sediment is filtered and the water is disinfected via cleaning equipment, the water is transformed into purified water for use. In terms of technology, the house organically integrates intelligent control with the concept and program of micro-grid system. After a period, the house can clearly aware of the most habitual schedule for working and resting, most comfortable luminance and temperature to the dweller, which can make the house more suitable for individual demands and energy saving. The successful construction of "O-House" demonstrates an environment-friendly living option to the public through utilizing clean energy and recyclable products for construction practices.





Low-carbon Sale

We adopt green sale model. We reduce resource occupation and improve marketing efficiency through establishing modern logistic park and rational plan on supply, marketing and logistics. We provide online transaction service for worldwide building products and reduce the carbon released by business travel of clients and sales personnel through establishing online marketing platform.

Bulk cement means cement is directly delivered from plants to transfer stations or users after produced at factories through specific facilities or containers, without any pouch pack.

Using bulk cement can improve the reliability and safety of constructional engineering. When leaving the factories, bulk cement has relatively high stability and quality. During transportation and storage, they cannot be easily deteriorated by moisture, thus avoiding strength decrease caused by moisture. Developing bulk cement can improve the working condition of workers and achieve civilized production

Green Service Industry

We take our advantages in technology and innovation, closely adhere to the mainstream of low-carbon economic development, and insist on serving the society through independent innovation. We designate green service industry as the new development priority of the Group, creating more environmental and social benefits while bringing economic benefits to the Group. Through years of efforts, depending

on detection and diagnosis, technical transformation, consultation with experts, and financing management, we have gradually established three energy-saving service systems, namely technology-based energy saving, intelligent control-based energy saving, and management-based energy saving, providing green service industry system that includes detection and diagnosis on energy efficiency and environment,

technical transformation for technological equipment, intelligent information-based control, consulting and certification services for management and control system of energy saving and environmental protection, and energy performance contracting for building materials industry and concerned industries, contributing to the improvement of energy efficiency and environmental protection in the industry of building materials.

Three Energy-saving Paths

Technological Energy Saving

Technological energy saving is critical for improving energy efficiency. Advanced, matching, and effective technological equipment is the guarantee for continuous, safe and optimized production. We provide clients with diagnosis on energy efficiency of technological system, evaluation of equipment, technical upgrading scheme and integrated upgrading service, practically increasing their productivity and efficiency.

Management based Farmer Carding

Delicacy management is an effective way to expand space for energy saving. Through management methods such as establishing standardization system for energy management, implementing energy audit, clean production verification, and carbon check, we can effectively improve the efficiency of energy management, minimize the "problems related to formulating and implementing management system", deeply tap into the potential of energy saving, and continuously improve energy efficiency.

Intelligent control-based Energy Saving

We advance the deep integration of intelligent control system and industrialized production. The effective application of informationized technology provides guarantee in intelligent control for the optimized operation of production lines. Depending upon high-quality database resources, we achieve unattended and expert-level management through the utilization of online simulation system and expert control system; we realize the effective link between production

management and current management through the seamless integration of production system and decision-making system for current management; remote control system helps the Group to establish an intelligent control-based energy saving system covering the whole Group from the headquarters to the production base.





Four Service Systems

Technological Transformation

We are committed to providing the industry with efficient and environment-friendly manufacturing process and technology; our independently developed technologies related to cogeneration, desulfurization and denitrification, full-oxygen combustion and integrated utilization technology of solid waste are extensively applied; several technologies have been included into the national list of promoted technologies and equipment for saving energy and water, environmental protection, and recycling of resources. We are committed to advancing the deep integration of industrialization and informatization, integrating intelligent control technology into the manufacturing of outfit and providing large and intelligent outfits for our clients; according to the demands for intelligent manufacturing in the field of building materials manufacturing, we provide production and operation control systems, including energy efficiency control system, environmental protection system, expert control system, online simulation system, safe operation system, etc., and transformation into intelligent factories with functions of procurement, production, sale and current management and into digitalized workshops based on remote control technology.

Test and Diagnosis

We provide assessment service on energy and environmental protection performance, identifying problems for enterprises in the building materials and related industries, providing energy efficiency diagnosis and environmental assessment covering the whole production circle, from procurement of raw materials to delivery of products, serving technological transformation and lean management as the basis of data analysis and guarantee of benchmarking improvement.

Experts Consultation

We employ experts in technology, energy efficiency, environmental protection, and management in the industry to provide enterprises with standard implementation and certification concerned with standardization management systems on energy, environment, and help enterprises deeply tap into the potential of energy saving. We provide services related to management and consultation, including energy audit, clean production verification, and carbon check, to help companies determine improvement path, working goals, and gradually advance energy saving and emission reduction according to the plan.

Financing Management

We provide financing services to those enterprises with financial difficulties in technological transformation of process and informationized energy saving through energy performance contracting, and operation, maintain services for energy saving system, share financial risk and energy-saving benefits with the enterprises.



Corporate Citizen





Corporate Citizen

During production and operation, we seek to achieve mutual development with the region where we operate. Our accomplishment cannot be achieved without the support of the stakeholders and people from all walks of life; we reward the society through unique social welfare projects. Our employees are dedicated to volunteer activities, exercising their responsibilities as corporate citizens with their actions.

- 66 Harmonious International Operation
- **68** Regional Common Growth
- 69 Commitment to Social Welfare
- 70 Warm Ya'an with Lov
- **72** Volunteer Activitie



Total amount of donation in 2013 was

 21.95_{million}



We value the Group's responsibility-related image in overseas operation. In order to bring mutual benefits with host countries and realize coexistence with local societies, we respect local religions and customs, adhere to lawful and honest operation, observe international conventions and local laws, pay due taxes, provide employment opportunities, protect environment, committed to social welfare, and persist in combining our internationalization with local social development.

We bring prosperity and mutual development to local areas through our business in that region. Till the end of 2013, the Group had 45 companies and offices in 30 countries and regions, with overseas assets amounting to RMB 6.35 billion, covering areas of manufacturing, engineering services and logistics. We advocate localized operating management for overseas enterprises, providing employment opportunities to local areas, training local employees and popularizing advanced management philosophy, with a view to realize common and sound development with local societies and environment. Till the end of 2013, the number of employees at the Group's overseas companies hit 1,564, including

1,234 local employees. The localized employment rate hit 79%.

We provide high-quality products, and advanced technologies and management concepts for rapid and continuous development in local areas. We build cement and glass production lines for developTJ01TJ-2_e build

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TJT*ID -1.5 TDau(, pr)10(o)71(on)4(c)6(ed t)6.1(ech.) Iditabilit status, and management of our
advanced tsociaompanies in g IDI aisk-f4(t)6.1(e with sub-inversityatctoes General descriptions and the present of t

as early warning system with risk analysis and emergency mechanism to guarantee a safe and steady internationalization.

We value management on sub-contractors and drive partners to fulfill social responsibilities through cooperation.

We insist on public bidding and lawful procurement; besides price and quality,

sub-ioent/factbes@reddaophaeiskagiehnaubhe prskagemska contractors that have good performance in social responsibilities. In the contracts, we explicitly stipulate the protection of lawful rights and interests, occupational safety and health of employees of sub-contractors, and

regulations on sub-contractors shall be strictly executed.

Our efforts in striving for harmonious coexistence and mutual development are fully recognized by local government and residents; our member companies win honors from governments of the counties or regions where they operate for several times.

during the protection, the management



Approximately

of the employees of our overseas enterprises were local people in 2013.

"CHINESE TECHNOLOGIES, CHINESE MANAGEMENT, OVERSEAS **MANUFACTURE, OVERSEAS MARKETING"**

On September 8th, 2013, a direct-melt glass fiber production line with an annual capacity of 80,000 tons, which is invested by China Fiberglass Co., Ltd. subordinated to CNBM, was completed and put into operation. It is located in Suez Economic and Trade Cooperation Zone that is close to the Red Sea. As China's first overseas large glass fiber production line, it marks Chinese fiberglass industry's first independent investment in overseas large production line, and fills the gap of glass fiber manufacturing in Middle East and North Africa.

As a key and backbone enterprise of CNBM, Jushi Group Co., Ltd. has been leading technological upgrade of glass fiber industry for many years. The Egypt-based project of Jushi Group is a typical project of CNBM's exploration in the new model of "Chinese Technologies, Chinese Management, Overseas Manufacturing, Overseas Marketing" and "Internationalization", with world-class indicators concerned with technology, environmental protection, etc., which is a significant step CNBM takes to implement our globalization strategy and a milestone in the course. Jushi's Egypt-based Project, an important achievement of China-Egypt economic cooperation, with largest investment, most advanced equipment and fastest construction time among China's industrial projects in Egypt, opens a field of industrial cooperation between the two countries. The project is located in Suez Economic and Trade Cooperation Zone in Suez province, Egypt, with Phase-I investment of USD 223 million and an annual capacity of 80,000 tons. Presently, over $800 \ Egyptians \ have \ been \ employed \ under \ the \ project, \ with \ a \ view \ to \ gradually \ realize \ localization \ of$ management in three years; in the future, Jushi Egypt Company will invest additional USD 300 million according to market changes to set up the only world-class large manufacturing base of glass fiber in Africa, with an annual capacity of 200,000 tons, which will meet the growing and diversified demands from surrounding areas. The completion and operation of the project will not only promote the development of the company, but also help Egypt establish and develop the industry of fiberglass composite materials, contributing to the economic and social development of Egypt.

As the achievement of China-Egypt cooperation in economic special zone and CNBM's first overseas extralarge glass fiber project with new technology, advanced equipment, and large investment, CNBM will endeavor to make good construction, operation and management for the project and help the regions expand employment, increase tax revenue, and promote development, thus developing the project into a sample case for Chinese enterprises to operate in North Africa.





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Regional Common Growth

We continuously contribute to the harmonious development of the local region through creating tax revenue, driving the development of supply chain and small and medium enterprises, providing jobs, supporting the construction of local infrastructures, and committing to social welfare.

By means of localized operation, we've always been devoted to integrating the growth and development of the enterprise with local economic and social construction and prosperity.

We actively promote localization of human resources, through which hiring rate of local employees has reached 69.4% in enterprises producing bulk building materials products (such as cement, glass and gypsum boards) which offer relatively more jobs.

We've put great efforts in popularizing localized procurement strategy, implementation of which drives co-growth of supply chain enterprises and fosters a large amount of suppliers and retailers of high

quality. In 2013, 90% of raw and fuel materials of the Group's manufacturing enterprises were procured from local areas.

The taxes we paid and prosperity brought to local economy have won us extensive recognition from local governments and all walks of life. Long-term strategic win-win cooperation mechanism has been established with nearly one hundred local governments. The taxes we paid to local government in 2013 amounted to RMB 9.06 billion.

We value the opinions of stakeholders. Prior to the construction, reconstruction and expansion or suspension, merger, and production change, we strictly implement project impact assessment, evaluate the economic and environmental benefits of our projects, and fully collect the opinions from stakeholders of local regions according to national regulations, striving to meet the demands of stakeholders and minimizing the adverse environmental and social impacts of corporate operations.

With great concern over regional social welfare, we innovate poverty relief and assistance mechanism, actively implement technology and industry-based poverty relief by combining poverty relief to specified assistance recipients with strategic corporate distribution, combining local resource advantages with corporate premium resources.



Commitment to Social Welfare

Adhering to the principle of making donations on a voluntary basis, with clearly defined responsibility and subject to our resource capability, we provide support for disaster affected areas, poverty-stricken areas, science, education, culture, and hygiene causes, welfare projects, and environmental protection causes in kind and capital. We put our best efforts in supporting social development by facilitating mutual development in the areas where we run our business.

We believe that a comprehensive donation management system is not only beneficial for us to play a better role in national disaster relief, help the distressed, promote social equality and perform the social responsibility of a central SOE, but also important for safeguarding contributor's interests and national assets. When major natural disasters hit, we provide support in kind and capital as soon as possible; we are committed to supporting the social welfare and public facilities construction; we pay special attention to the development of environmental protection and education causes. In line with

the principle of guaranteeing the rights and interests of stakeholders and shareholders, we carefully assess invitations for social welfare support prior to implementing any donation and cautiously select projects to support in order to guarantee the public rights and interests by evaluating importance of projects, reliability of executing units of projects, and public benefits of projects as well as our annual business performance.

Our donation management system is established and improved. We have established and perfected management and organization system, formulated management measures on donation, and made strict donation approval process, and managed our member companies in a unified way. The donation outlay has been incorporated into the budget management system; limits and authorities relating to donation expenditure are specified; the approval and filing system of donation has been carried through; we provide statistical analysis of donations in each quarter and intensify internal supervision; we have established a

mechanism for periodically analyzing and reporting the donation project progress, evaluating effects and conducting return visits when the project ends, so as to guarantee that the donation projects serve social welfare purpose as expected.

In 2013, the Group and its member companies carried out 332 donation projects, with the amount of donations up to RMB 21.95 million, of which 31% was donated for the construction of public utilities, 15% for disaster-affected areas, 11% for designated poverty alleviation regions and 8% for social welfare and charity.

In 2013, the amount of donation hit

21.95 millio

In 2013, the number of donation projects was

332



SUPPORT KNOWLEDGE-BASED FUTURE

We have developed close cooperation and consecutively entered into strategic cooperation agreements with a number of renowned universities and colleges, including Wuhan University of Technology, Tongji University, Nanjing University of Technology, etc., pursuant to which fellowship and scholarship are founded to help needy students finish their studies and for brilliant students to make their dreams come true. We take advantage of our top-ranking production, experiment and application platforms, and establish an experimental teaching base for teenage students and an internship base for college graduates, providing opportunities for young students to practice or even start their own business. Teenage students can therefore get access to combine their knowledge with production and corporate management, laying a solid foundation for their future career.

A post-doctoral research center and post-doctoral research workstation are established in the Group, which becomes a channel for universities, R&D institutions, and enterprises to communicate and cooperate in the fields of talent, technology, and project, providing guarantees in capital and practical environment for excellent scientific research personnel. It also prompts the close combination of production, learning and research and the commercialization of research findings, establishes a new production-study-research relationship on the basis of mutual benefit.

Warm Ya'an with Love

In 2013, the amount of donation made to Ya'an earthquake reached

On April 20, 2013, 7.0-magnitude earthquake hit Ya'an of Sichuan, causing mass human casualties and property loss in disasteraffected areas.

After the earthquake, CNBM quickly launched the earthquake contingency plan and established "Emergency Command Center for 4-20 Earthquake Relief" to arrange and deploy emergency rescue, securing the safety of our employees and their families, minimizing property loss, resuming production as soon as possible, and guaranteeing the supply of basic building materials in the affected areas. The member companies in Sichuan were required to strengthen their leadership and organization, well check and monitor dangerous cases to prevent secondary disasters, investigate disaster situations of the companies, make careful statistics analysis, and officially launch information releasing

platform for earthquake relief, carefully and immediately managing the submission and release of related information. Our achievement in the earthquake relief work was substantial, with no casualty among employees or their families. Three days after the earthquake, Shifang Southwest Cement resumed its production, providing building materials for disaster relief and post-disaster reconstruction.

The Group's enterprises at all levels utilize their advantages to actively participate in earthquake relief, reconstruction and recovery in affected areas. The Group's member companies and employees donated RMB 3 million to support earthquake relief and post-disaster reconstruction in Ya'an. The enterprises in the area increased the output of various building materials and anti-seismic houses required by earthquake relief and reconstruction to ensure market supply and relief demands, effectively maintained the production, operation, and market order in the affected areas. Three days after the earthquake, the enterprises provided the first batch of 100 tons of cement to power supply bureau of Tianquan County, Ya'an City to ensure immediate reinstatement of power supply in the affected area; Shifang Southwest Cement Company dispatched professionals in civil engineering, electromechanical, and technique areas to those affected enterprises in Tianquan County, assisting them with hidden dangers assessment, rescue and relief; China Triumph International Engineering Co., Ltd.(CTIEC) dispatched professionals in civil engineering and machinery fitting to Tianquan County, Ya'an City, providing professional assistance for affected enterprises to resume production; INTECH Building Co., Ltd. has been organizing technical experts to research and compile technical proposal for anti-seismic houses in Ya'an; scientific research institutions and enterprises of the Group utilize their specific advantages and technical excellences to actively provide expostulation and suggestions for earthquake relief, reconstruction and recovery.



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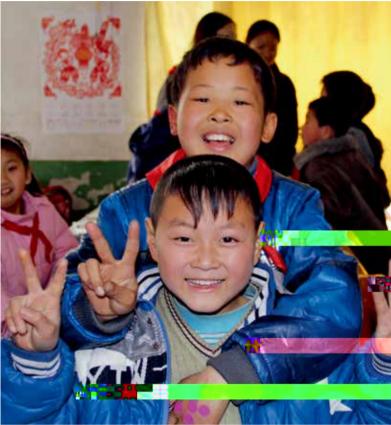
"DREAMY" HOUSES HELPED THE AGED PEOPLE IN THE AFFECTED AREA REALIZE THEIR HOUSING DREAMS

To relieve the difficulty in resettling the aged people in the affected area, Jackie Chan and Jackie Chan Charitable Foundation Beijing worked together with BNBM Public Limited Company (BNBM PLC) to provide assistance in constructing nursing home for the aged people in Tianquan County, Ya'an City. Overcoming a number of adverse conditions in the affected area, including the blocked roads, uneven ground, rainstorm, etc., BNBM PLC completed the design and construction of eight buildings in two months, including residencies and supporting public facilities, which covers an area of about 3,700m². In terms of design, BNBM PLC fully considered the safety of usage and barrier-free design for passageways. In terms of selecting materials, BNBM PLC adopted the package of its "Longpai" series products: world-leading wall structure-based thermal insulation and energy saving technology through "double thermal insulation" and "double interlayers" result in over 75% of building energy reduction; the unique design of open ventilating zone can prevent the immersion of moisture or other corrosive gases into the main structure; "one-way breath paper" between the main structure and decorations on exterior wall can help indoor moisture go out and prevent outdoor moisture; the sound insulation meets the national standard for five-star hotels; the main housing structure meets the requirements of the safe design of a 95-year structure and can resist 9 magnitude earthquake.

"Tianquan County Tianmin Heyuan Nursing Home for Aged People" was officially put into service on September 8, 2013. The construction implemented by BNBM PLC, with disaster prevention, environmental protection, livability as the core, provided a sample for reconstruction work in the affected area and won wide acclaim from local government, residents, and all circles of society. The aged people who live in the nursing home were very excited and said "The house is good! The house is good! The house is good. Thanks to Mr. Jackie Chan, Jackie Chan Foundation, constructors of BNBM PLC, and the government! Living in such a good house represents the realization of our Chinese Dream!"

Volunteer Activities





We advocate a harmonious social atmosphere. To this end, we encourage and support our employees to participate in social welfare activities and provide volunteer activities.

Adhering to the principle of serving enterprises, the young and the society, and taking the communist youth league organizations as our core, we proactively commence and advance volunteer activities, unite and lead League members to spread love and care, make enthusiastic dedication,

fulfill social responsibilities, practice the Group's corporate culture and demonstrate the Group's youth image, making our own contribution to a more harmonious society, happier people and better environment!

An extensive platform is established to guarantee and support the launch of volunteer activities in terms of organization, work mechanism, time arrangement, capital support and communications.

Our employees are actively engaged in the volunteer activities. Member companies, such as China National Building Materials Import & Export Corporation, BNBM Public Limited Company and, Bengbu Design & Research Institute for Glass Industry have launched diverse volunteer activities and obtained positive effects.









volunteer groups were established in 2013.

was invested into volunteer activities in 2013.

Approximately

hours of volunteer services were provided by our employees in 2013.

ĠĊ,

Wa.

4,864

employees became volunteers in 2013.

"LEI FENG AROUND YOU" MODEL TEAM

Association of Young Volunteers of China National Building Materials Import & Export Corporation was founded in April 2011, with the purpose of systematically organizing and guiding the activities of young volunteers in the enterprises. The association advocates the spirit of "Boundless Love, Dedication, Inclusiveness, $and \ Fraternity ", aiming \ to \ enhance \ the \ responsibility \ sense \ of \ young \ employees, assuming \ the \ social \ responsibility \ of \ the \ enterprises, \ promoting \ social \ harmony$ and progress, and implementing the principle of "serving the society and disseminating civilization". The association combines young employees' competence improvement and talents show with activities concerned with social welfare, continuously carrying out activities concerned with environmental protection, as well as children and old people care. Since the foundation of the association, it has carried out over 20 social welfare activities, including planting trees, teaching at schools for migrant workers' children, caring for autistic children, donating clothes to poverty-stricken areas, caring for old people in nursing home and community, etc., with over 400 person-times of participation, 75-hour service per capita. The number of donated clothes and books hit over 6,000, amounting to the value of RMB 500,000.

The continuous efforts of young volunteers make love boundless, help more people in need, attract more young volunteers to join the association to help others, making greater contributions to the construction of a harmonious society, assuming corporate social responsibilities, and improving the competence of young people. In 2013, the Capital Civilization Office hosted the event of "Lei Feng around You – the Most Beautiful Beijing People", in which Association of Young Volunteers of China National Building Materials Import & Export Corporation was honored with the title of "Lei Feng around You" Model Team.



At the end of 2013, the total number of employees reached

179,000

Employee Care

We make every effort to safeguard the rights of our employees, respect their differences and make the company a reliable partner, a happy and comfortable home for the employees. We try to build a sustainable and better future together with all our employees and deliver our happiness to the

Protection of Employees' Rights and Supporting Employees' Growth Implementing Democratic Management 83 **Creating Happiness for Employees 78** Production Safety Guarantee

The Most Adorable Employee





The ratio of salary of male employees to that of female employees was

2.8:1

In 2013, our coverage rate of collective bargaining and contracts was approximately

35.7%

Protection of Employees' Rights and Interests

We respect and support the international covenants on human rights and labor standards and strictly prohibit and reject employing child laborer in any form according to laws including "Law of the People's Republic of China on the Protection of Minors", "Provisions on Prohibition of Child Labor", etc.

Forced labor and discrimination are strictly forbidden. Employees are guaranteed with a decent working environment of freedom, fairness, safety and dignity.

We adhere to equal employment, respect and equally treat employees of different nationalities, ethnics, genders, ages, religions and cultural backgrounds. Employees are recruited and employed in an open, fair and impartial manner. In line with the principle of equal pay for equal work, we equally treat part-time employees, day laborers, and the workers of our subcontractors. Their legitimate rights and interests are well protected.

In strict compliance with "Labor Contract Law of the People's Republic of China" and relevant laws and regulations, we sign labor contracts with our employees and standardize the labor contract management. We respect the working privacy right of employees and establish a privacy management system that covers all of links of human resource management, including recruitment, assessment, health files, etc.

We pay our employees basic pension insurance, basic medical insurance, unemployment insurance, work injury insurance, maternity insurance and other social insurances in accordance with laws, and establish schemes of supplementary medical insurance, corporate pension, and periodical physical examination system. We also encourage our member companies to purchase accident comprehensive insurance and other supplementary insurances for employees in line with their actual conditions.

We adopt a paid leave system according to laws, give our employees access to physical examination and health assessment, and continuously carry forward the corporate pension scheme. We encourage member companies to offer employees working lunch, recreational and sports activities, and mental health consultation, provide traffic and housing allowances for special employees in accordance with actual conditions in a bid to provide a complete remuneration and welfare security system for employees.



Implementing Democratic Management

We keep widening our trade union network, setting up and improving the trade union organizations and work organizations at all levels; newly established enterprises and the enterprises newly affiliated to the Group are required to set up and improve trade unions to boost unionization and to make trade unions more attractive and cohesive.

We implement the Workers' Congress system, through which employees

participate in corporate management, express legitimate appeals and defend their own rights and interests. Mainly through the Workers' Congress, the member companies pursue democratic management and push ahead with the establishment of a managerial mechanism featuring democratic participation, management and supervision.

We consistently promote dialogues and collective bargaining, encourage employees to deal with the issues of their concern through collective bargaining, thereby fully protecting their rights and interests.

We have set up channels through which the employees could freely send their suggestions to the senior management. Through the trade unions, we collect proposals and reasonable recommendations from the staff, drawing on the talent and wisdom to sustain the growth of enterprises.

We continuously consolidate, deepen and perfect the disclosure mechanism of factory affairs and take the hot, tough and key issues of concern to the employees as the priorities in the disclosure of factory affairs, so as to expand their rights regarding participation, information and supervision. We share the corporate operation information with the employees through channels such as the disclosure board of factory affairs, employees discussion meetings, manager's mailbox and the company's website.

90.7%

of the proposals of the Workers' Congress were handled and settled in 2013.

PARTICIPATION OF EMPLOYEES IS THE GOLD KEY TO ENTERPRISE MANAGEMENT

The Logistics Center of Beijing New Building Materials (Group) Co., Ltd. is an operation and service platform integrating metal trades, storage and logistics. For years, taking employees' rational suggestions as the entry point, the Logistics Center adheres to the participation of employees in management, respects the initiative spirit of employees, optimizes its management process, and increases its operation performance. It proves that employee is a strong supporter for the management of enterprise, and the participation of employees is the golden key to enterprise management.

Since employees work at the site of management, they have the clearest picture of problems and hidden dangers in field management, and their suggestions are the most authoritative. The Logistics Center takes the participation of employees in the management as a kind of management philosophy and system standard, giving a full play to the enthusiasm of employees at all posts, including field operation, business operation, marketing, risk management; respecting employees and listening to employees' rational suggestions on their posts and the enterprise. They believe and rely on employees, eliminating their worries and allowing them to propose their ideas freely; as for suggestions of employees, leaders of the Center always respond timely, and solve problems one after another. They directly include valuable suggestions into management system or process, and improve the performance of posts and the management of the enterprise.

When their suggestions are respected, the employees will have the sense of responsibility; when the enterprise cares about employees' lives, they regard the enterprise as their family. The wisdom of employees shines in every aspect of the operation and management of the Center. Participation of employees has already become an important part of the management and decision-making of each department, and drives the increase of the operation performance. Leaders and employees understand, trust and support each other. With employees' rational suggestions, the Center has tackled many problems and difficulties in the work, gives a strong confidence to the employees, improves employees' enthusiasm, and increases their operational performance. In the past six years, the performance of the Center had been increasing year by year, and the Center has been evaluated as "Star Team" for many consecutive years. Every employee has a sense of pride in his heart, and believes that the Center is a big family deserving their care and devotion.

Production Safety Guarantee

We have established a domestically top-ranking management system for safe production with safe production accountability system, standardization of safe production, and operation specification of safe production as the core.



fatal accident in 2013.

person-times of employees received training in occupational health and safety in 2013.

In 2013, the number of accidents of minor wounds declined by (on a year-on year basis)

In 2013, the person-time of the minor wounds declined by



We set up the organizational system for safe production with the principles of comprehensive coverage and practicality. The managers in charge would be the primary persons responsible for safety in the workplace and take charge of safe production matters. All key production safety enterprises within the Group employ full-time production safety management personnel. We attach great importance to building up a safety management team. We have continuously fostered the sense of responsibility and awareness of safety procedures in the workplace and improved the professional quality of safety management personnel.



We have established safety production management system covering penalty for safety violations, etc. We have also introduced special regulations and work guidelines for managing occupational health, major hazard sources, overseas projects and non-coal mines, Informatization technology is applied for the purpose of safe production management. The safety management information system independently developed by CNBM has also been included as one of the "Integration of Informationization and Industrialization" key projects by the Ministry of Industry and Information Technology. Online



We continue to improve the emergency management system. In the system that covers all layers of the Group, the Group's emergency management team takes the general charge, while the emergency management teams of the member companies would be responsible for specific measures. A comprehensive

emergency response plan is established, supplemented by special emergency response plans and on-site response schemes. We organize member companies to check the reserves of emergency supplies regularly, take emergency response drills, and give on-site instruction on emergency response work.



2

We strictly follow CNBM Safety Training Rules, popularizing safety knowledge, enforcing safety procedures, and implementing contingency plan. We provide training for company staff and suppliers' staff to vertically and horizontally establish safety training system with supply chain incorporated.

3

We advocate the implementation of standardized management for production safety. As a state-level pilot enterprise for production safety standardization, we embark on standardization work across the Group by improving the safety management system, as well as safety managerial expertise and performances.



national safety standards had been compiled till the end of 2013.

2

national research subjects on safety had been completed till the end of 2013.

management has covered all key procedures and links of safe production management, including qualification management for safe production, basic files of safe production, eradication of hidden dangers, danger source management, safety checks, and safety trainings.

We give importance to financial investment in safety and occupational health in order to improve and maintain the safety equipment and facilities, implement technical innovations for the purpose of essential safety, organize training in safety procedures, raise safety awareness and foster safety culture.



We actively carry out benchmarking on safety management compared with renowned transnational enterprises of building materials; we closely follow the Group's development strategy and implement special researches in safe production, covering mines, ready-mixed concrete, and houses; through over-one-year continuous efforts, the Group has steadily improved the production safety and achieved the goal that there was no case of death in line of duty caused by dereliction of the entity with ultimate liability in the full year.



We encourage the staff to participate in the management of safe production and occupational health by establishing smooth channel for them to deliver opinions and suggestions to leading bodies, including corporate management committee for safe production, so as to effectively improve the level of essential safety and the management on safe production.

Sun Huashan, vice director of State Administration of Work Safety:

"CNBM adopts safe production standardization as an effective means to achieve integrated corporate management; through the copy of the management model of safe production standardization, CNBM regularizes and integrates enterprises newly affiliated to the Group, with digestion and absorption achieved quickly, which helps the member companies improve their production environment, guarantee the Group's implementation of large-scale consolidation and restructuring, and contributes to sound and sustainable corporate development.

Wa.

Around

95.4%

of staff had occupational diseases examinations in 2013

99.4%

of the staff passed occupational disease examination in 2013.

1

new case of occupational disease was found in 2013.

160

member companies set up mental health management systems for employees in 2013.

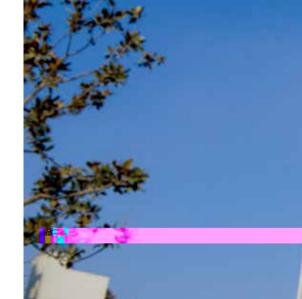
Value Occupational Health

We have installed and optimized supporting facilities for dust prevention, gas defense, noise reduction and emergency alerts as well as first-aid equipment in the production place, based on our in-depth study and analysis on the features of building materials production. For the purpose of labor protection, we offer labor protection articles like overalls, helmets, protective footwear, gloves, noise-proof ear covers and anti-dust masks, which are put in place and replaced in a timely manner to ensure their efficacy. We provide equal protection of occupational health and safety for part-time employees, contract employees, and day laborers, require our subcontractors to provide occupational and safety protection for their employees according to the Group's regulations on occupational health and safety. We standardize the management system on occupational health and actively implement occupational health system certification.

We attach great importance to the training of occupational health, raise the awareness among the staff of protection against health and occupational hazards and impart relevant knowledge. Through regular training sessions and assessments, we improve the self-protection capacity of our employees.

We put occupational diseases prevention and warning in the first place. It's an established practice to organize employees to take health examinations, arrange extra heath checks for staff in jobs with exposure to dust or radiation, establish Personal Health Record and keep reexamination.

We explore ways to establish mental health management system for employees and gradually incorporate mental health into the occupational health management. We encourage member companies to set up mental health consultancies or cooperate with mental health institutions to build health record archives and pay attention to the mental health of our employees.



FORGE IRON DEFENDER FOR FRONT-LINE WORKERS

Besides establishing protection system for staff's occupational health, we also actively and continuously improve production environment and the safety of working process through technical upgrade and transformation. The traditional glass production process requires that the stacking and packaging of products are completed in a semi-mechanization way, and the packers face such occupational injuries as incised wound caused by glass fragments produced during the incision and packaging of glass products, dust pollution, etc. To avoid these risks, we transform the stacking and packaging process of glass production lines and adopt precise mechanical arms to achieve fully mechanized operation. It helps operators to avoid injury risks, fully improves packaging efficiency, and guarantees the safety of the employees. Accidents related to cleaning cement warehouse often hit the industry of cement and once such an accident comes, the survival rate is extremely low. We organized resources and independently developed, designed, and manufactured equipment for warehouse cleaning, which completes the cleaning work without personnel entering into the cement warehouse. This project, highly valued and praised by State Administration of Work Safety, has been put into batch manufacturing. Mechanical equipment and devices have become iron defender for front-line workers, which essentially help staff concerned achieve occupational health and safety.

Disseminating Safety Culture

We actively organize safety promotion activities like "Safe Production Month" and "Safe Production Year", incorporate the idea of "people first and life foremost" into the corporate culture, and forge corporate atmosphere of safety culture. Additionally, we share safety knowledge and experience in safe production management with suppliers, clients, and communities for creating the culture of safety ecology.

Fuyang Shanya South Cement Co., Ltd. adheres the general management policy of "safety first, prevention prior, and comprehensive improvement", and follows the development concept of "respect, care for, and take good care of people", "cherish lives and emphasize civilized production", and "protect the physical and mental safety and health of labors during production and operation". The company has established a corporate image and culture that the employees regard the company as their homes and are proud of working in the company. It has put the concept of "striving for safety and



Supporting Employees' Growth



Employee Incentives

A scientific evaluation system is established; an incentive mechanism is formed and dynamically integrated with the remuneration system, pegging the employees' personal qualities, work performance, contributions to the company and their development potential directly to remuneration and promotion as well as the enterprise's development, and bonding the employees' development to the enterprise's growth. We set two career paths for employees' promotion, leading to management positions and professional positions respectively, through which we manage to meet the development needs of different kinds of talents. Grounded on the mechanism of intragroup communication and on-position learning for employees, we effectively allocate the human resources within the Group, and provide a broad platform for the employees to develop their careers.

Employee Training

We spare no efforts in the construction of learning groups. We aim to build a multi-channel, multi-form, multi-level and differentiated employee cultivating and training platform, taking account of the objectives of promoting employees' occupational abilities and overall qualities as a whole, building sound and harmonious corporate culture which values mutual growth with employees. Following the training approach of "based on internal training and supplemented by external training", we share the education resources to build a comprehensive training system for the Group.

Approximately

RMB 100 million was invested in training in 2013.

About

100%

of our manufacturing offered starting salaries of post wage higher than the locally specified minimum in 2013.

Creating Happiness for Employees

Helping Employees in Need

We continuously improve the system of employee support and relief, and help employees to overcome difficulties by various ways. We do practical things, solve tricky problems and do good deeds for employees in difficulty, and make such actions regular, institutionalized and standardized. We create and maintain the records of poor employees to keep track of the practical situation of poor households and give them timely assistance through many channels and in various forms.

To help employees suffering serious and severe illness, we set up a mutual fund to

combat serious illness; we help the employees' children in need to complete education with the "Golden-autumn Grant-in aid" program; we implement the "Sunny Employment Project" and give assistance to the "households with nobody working", helping the employees' children in need to find jobs after graduation and help their laid off family members for re-employment; we stick to the custom of visiting needy groups in winter and two major festivals, mainly including childless and widowed elderly people, families of martyrs and poor retired employees.

RMB 26.97 million
was spent to help and reward special group of

9,233

person-times of special group of employees received help and rewards in 2013.

ώ¢,

Caring about Special Group of Employees

We care for the health and life of female employees, value their professional growth and treat them equally with male counterparts in salary, management position, professional training and vocational development opportunities. We buy maternity insurance for female employees and implement flextime for female employees in maternity and lactation. We also provide antenatal examination, maternity leave, breastfeeding leave, and birth allowance for female employees.

We are concerned about the work, life and mental needs of young employees. We bring young people together through the communist youth league, providing them a platform to demonstrate their talent and exchange ideas. We hold parties for young single employees to create opportunity for romance and organize group weddings to send the best wishes from the Group.

We care for the work and life of expatriates, especially those who stationed abroad or in the communities of minority ethnic groups for long, offer regular home leave, hold special after-work activities and provide mental health counselling so as to relieve their pressure and promote happiness.

We also pay close attention to the working environment and living quality of disabled employees and provide them with a convenient working environment and necessary amenities.

Enriching the Life of Staff

In an effort to make the company a reliable partner, a happy and comfortable home of the staff, we establish gymnasiums, recreation rooms, reading rooms and psychological counselling rooms, providing the staff with places for recreation activities; we organize colorful cultural and art activities and sport competitions to offer a broad stage for the staff to show their gifts; we arrange various visits and trips, pay close attention to the development of the staff's abilities and awareness of self-improvement, family care and giving back to society. We assist in the establishment of clubs and associations of photography, cooking and dancing where employees receive professional instruction and communicate with likeminded colleagues.

In 2013, the number of participation in various cultural and sports events by employees was

 $152,\!000_{\text{person-times}}$

e Most Adorable Employee

In 2013, average employee turnover rate was around

10.8%

In 2013, the number of member companies carried out employee satisfaction surveys was

453

We always adhere to the "people-oriented" management concept, promote the environment of "San Kuan San Li" (being lenience, tolerance and ease; unity, affinity and cohesion), vigorously implement the strategy of "talents-invigorate-enterprise" and strive to create a "one-CNBM family" corporate environment. Our work has also been recognized by the community.

Our efforts have been recognized by the staff, as indicated by the ever-increasing employee satisfaction level. Our employees strive to excel in the Group and in their own professions, serve the companies and the community by strenuous efforts that deliver good results. Our employees show their talents and encourage other people in their own specific fields.





YOUTH, FAMILY AND COUNTRY, AND DREAM - POSITIVE ENERGY OF WORKERS IN THE NEW ERA

Su Zhixiong, a young man born in the 1980s, was a project director of BNBM Homes Co., Ltd. He led a team to build green pre-fab housing in the desert, overseas, and rural areas. The experience records the lively outline of common workers. The story of Su Zhixiong is not only a story of a person; it is one of thousands of green leaves of the towering tree-CNBM and the song representing the youth of Chinese workers in the new era, through which we can find youth, family, country, dream, and the Post-1980's responsibilities for the country, their careers, and their families.

Workers in the new era keep the country in their hearts and mark their youth with responsibility. When Su Zhixiong went to build Lotus Project in the desert, his wife just got pregnant; when he went to build pre-fab housing in Zambia, his daughter was barely one-month old. However, he was very proud of building Chinese green pre-fab housing overseas. He adhered to the national commitment, by paying attention to details and strictly controlling the quality of the project to carefully defend China's national dignity in housing quality.

Workers in the new era are professional workers with specific knowledge; they utilize knowledge to pursue their dreams. Su Zhixiong, major in civil works, has strict control over selecting materials and construction of projects. He always solves problems related to construction in innovative ways. According to the report of Xinhua News Agency, we find such a detail - "in China, keel frameworks of pre-fab housing are installed and jointed by specific equipment, but Zambia doesn't have such equipment. How should they do to ensure the progress of the project? To overcome the difficulty, Su Zhixong made numerous drawings and improved samples for many times; finally, by utilizing basic mechanical principle and handmade methods, he made a simple replacement of the complex and precise equipment, which consists of screw stem, steel tube, and clamping components. Such a simple device not only quarantees the quality of installation, but also reduces the period for jointing by 1/3."Who can insist that young workers like Su Zhixiong lack the tenacity of the older generations? They are even better.

Young workers in the new era adhere to their dreams, and incorporate their own dreams into "green dream" and "Chinese dream". Su Zhixiong said: "BNBM Homes Co., Ltd. is my battlefield, green and environmental protection is my dream. For my dreams, I will continue to strive and go forward!" As mentioned in Making Drawings Reality, a report on the front page of Guangming Daily, "Up to now, Su Zhixiong still remember that when he was a child, he wrote the word 'engineer' on a questionnaire about his dream at class; at that time, he longed for 'making a drawing reality". As Worker's Daily said, Su Zhixiong is committed to "seeding" green pre-fab housing: "Lotus Project' attracts wide attention after which he answered many consulting telephones. Every time answering the telephone, he never forgot to emphasize that 'pre-fab housings are not only beautiful, but also green and environment-friendly."

Behind Su Zhixiong, several generations of Chinese workers in building materials once devoted themselves to new-type building materials and pre-fab housing, publicizing green and environment-friendly products. Nowadays, workers like Su Zhixiong make their dreams come true. Excitingly, after the 18th National Congress of the CPC, China's urbanization has opened a new chapter about green building materials. CNBM's dream of "Beautiful China" is being rapidly realized at home and aboard.





Technological Innovation

We shoulder the responsibility of innovation for the industry by leveraging our strong research capabilities. We also promote transformation and upgrades to the industry with our foresight, vision and advanced technology. We promote and share our technical information. We are committed to building a more environment-friendly, comfortable and intelligent living environment and creating a sustainable future.

- 88 Building a Super Power of Scientific Researches
- **89** Gathering Pioneers of Scientific Researches
- **90** Guarantee of Investment in Scientific Research
- 91 Improvement in Innovation Activities
- **92** Acting as the Engine of Innovation
- **93** Expediting the Transformation of Achievements
- **96** Science and Technology Serve the Society

RMB 25.94 billion was recorded from sales of new products in 2013.



Building a Super Power of Scientic Researches

Dedicated to developing an innovation engine in the industry, and by integrating and optimizing technological resources under the Group, we have established a science & technology innovation platform and system centered on China Building Materials Academy (CBMA) and become a comprehensive scientific research and development organization of the largest scale and strongest capability in the building materials and inorganic nonmetallic materials sectors in China.

national and industrial key laboratories.

national research centers.

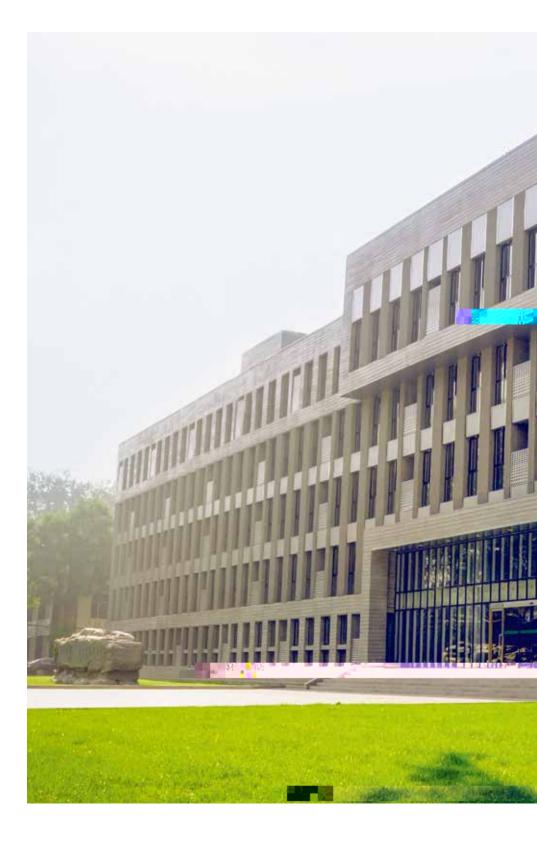
mobile post-doctoral studies.

academician workstation.

industrial products quality control and technical assessment laboratories.

post-doctoral scientific workstation.

national demonstrative base of international scientific and technological cooperation.





Gathering Pioneers of Scienti c Researches

We pay close attention to the development of scientific research teams. In 2013, the number of personnel engaged in scientific and technological activities in the Group totaled nearly 14,000, approximately accounting for 8% of the total number of employees in the Group. The Group also has 1 academician of Chinese Academy of Engineering, 6,069 R&D personnel, and 13,959 engineering technicians. As a national innovative and venture base for overseas top talents, we attach great importance to the introduction and selection of senior scientific research talents. As of 2013, we had successfully recruited 41 overseas top talents, three of whom were selected in the "Thousand Talents Program".

We continuously deepen talents team building, and spare no efforts to improve the quality and vitality of scientific research teams. We have gradually established the talent development mechanism to promote the development of talents, and the assessment and reward mechanism according to their performance and contribution. Through such ways as establishing the Youth Science Foundation and organizing youth scientific research contests, we promote the development of key young personnel, and provide a continuous flow of talents for the scientific research team of the Group.

In 2013, the number of personnel engaged in scientific and technological activities in the Group was nearly

14,000

In 2013, the percentage that the science and technology personnel of the Group accounted for the total number of employees was

8%

Guarantee of Investment in Scienti_c Research

Financial support for science and technology is an important guarantee for scientific and technological progress, so we attach great importance to the investment in science and technology. In addition to guaranteeing the study of basic theory and cuttingedge technology in materials science, we especially increased investment in research of low-carbon environmental protection technology and R&D of products. In 2013,

the total expenditure of scientific and technological activities was RMB 5.49 billion, taking up 5% of product sales revenue, of which the expenditure of corporate research and experimental development was RMB 3.62 billion, increasing by 8% on a year-onyear basis.

In 2013, the expenditures of scientific and technological activities amounted to

In 2013, the expenditures of research and experimental development amounted to

experimental 2.62 billion



Improvement in Innovation Activities

We have established "Science and Technology Progress Award" and "Technical Innovation Award" within the Group and set up a "Technical Center Project of the Group" to give financial support and incentives. We normalize scientific research activities, demonstrate scientific research practices, and guide scientific researches, providing accumulation and guarantee for tackling difficulties in scientific researches and practicing innovations.

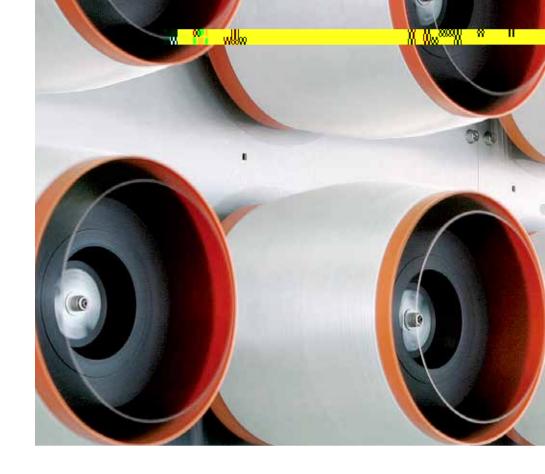
We attach great importance to cooperation with famous universities and professional institutions in jointly tackling key problems, technical cooperation, academic exchanges, talent cultivation, incubation and transformation of achievements, etc., establishing an innovation alliance with various levels. We provide technical innovation of the Group with strong technical support, building an external system of technical innovation and forming a new mode in which production, study and research are integrated, enterprises and research institutions can develop in coordination.

Focusing on such aspects as the protection of intellectual property, the management

of scientific research funds, and the confidentiality of information, we have combined the development of internal control system and the requirement of risk management, formulated several management systems and methods, formed a scientific research management system which conforms to national requirements of scientific research management and has the feature of building materials industry, providing the efficient progress of scientific researches with mechanism guarantee.



We actively undertake tasks of tackling key problems and researches of key technologies in related fields, and shoulder





We lead independent innovation and intellectual property protection. The Group's patents increased steadily in 2013. There were 1,262 new patent applications including 373 patents for invention, and 848 newly authorized patents including 128 patents for invention. A total of 3,231 valid patents were accumulated, including 589

patents for invention. The Group has also made breakthrough in the authorization of international patents, with 4 international patents authorized in the US and some other countries.

848
patents were newly authorized in 2013.

Expediting the Transformation of Achievements

We proactively promote the technology innovation system according to the principle of "enterprise-based, market-oriented, integration of production, study and research", and pay close attention to the transformation and application of scientific achievements. The Group continuously optimizes and integrates its scientific and technological resources; proactively organizes and builds the technical innovation system with the national enterprise technology center as the framework; encourages and guides

enterprises to improve the ability of independent innovation; emphasizes the major position of enterprises' technical innovation and investment in science and technology; and further promotes the core competitiveness of production and manufacturing enterprises in products and technical innovation. In recent years, the Group has gained approvals for national enterprise technology centers in four fields, namely composite, equipment

manufacturing, fiberglass, and cement equipment, and built the technical innovation system consisting of one National-certified Enterprise Technology Center (Group), namely CNBM Enterprise Technology Center, and six branches of National-certified Enterprise Technology Center.

Under the technical support of China Building Materials Academy, 3 achievemes 4015 mDndepemeseseapemesch coop4(i5(t)6(eion, inclu M)-6spec A) cwemeserhepemesojecyna BuilUni

Branches of Nationalcertified Enterprise Technology Center

Beijing New Building Materials (Group) Co., Ltd. Technology Center China Luoyang Float Glass Group Co., Ltd. Technology Center Lianyungang Zhongfu Lianzhong Composites Group Co., Ltd. Technology Center Hefei Smarter Technology Group Corp. Technology Center Jushi Group Co., Ltd. Technology Center Hefei Cement Research & Design Institute Technology Center



PUSH APPLICATION OF NEW MATERIALS BASED ON PRODUCTION-RESEARCH INTEGRATION

Jointly founded by Lianyungang Zhongfu Lianzhong Composites Group Co., Ltd. and Harbin FRP Institute, subordinating to CNBM, Zhongfu Carbon Fiber Core Cable Technology Co., Ltd. is dedicated to R & D, production and sales of carbon fiber compound core conductors in dependence on the advanced technologies of Harbin FRP Institute for producing such conductor. The carbon fiber compound core conductor independently developed and produced by the company is a new-type conductor based on the high strength and excellent corrosion resistance of carbon fiber. Compared to ordinary steel core aluminum strands, it has the advantages of light weight, high tensile strength, high temperature resistance, anticorrosion, large current-carrying capacity, less line loss and less sag. As an energy-saving capacity-increasing conductor with brand-new structure, it is favorable to building a safe, environment-friendly, efficient and energy-saving transmission $network.\ Zhongfu\ Carbon\ Fiber\ Core\ Cable\ Technology\ Co.,\ Ltd.\ has\ undertaken\ the\ first\ large-span$ transmission conductor project (max. span, 1180m), which was the first application of carbon fiber compound core conductor in the world.

Science and Technology Serve the Society

Guarding the Development of the Industry

We actively participate in the formulation and amendment of national and industrial standards, and contribute to improving the quality and performance of building materials, reducing pollution and safeguarding employees' health through promoting the application of standards and regulations. In 2013, we formulated and amended 1 international standard, 5 national standards and 50 industrial standards. We also participated in the formulation and amendment of 7 national standards and 9 industrial standards.

In 2013, the Group led the official release of ISO 17095: 2013 Fine Ceramics (Advanced Ceramics, Advanced Technical Ceramics) -Test Method for Interfacial Bond Strength of Ceramic Material at Elevated Temperatures, which effectively solved the technical problems of ceramic material assessment at elevated temperatures, filling the vacancy of strengthen assessment of elevated temperature materials. The international standard, ISO 13124: 2011 Fine Ceramics (Advanced Ceramics, Advanced Technical Ceramics) - Test Method for Interfacial Bond Strength of Ceramic Materials, which was also released by us in 2011, won the second prize of Contribution to standards Innovation in China.

We have test and certification resources and quality control and technical assessment laboratories of industrial products (building materials, ceramic sanitary wares, decorative building materials, wall and roof materials, glass, horologe, light industrial machinery), covering the whole industry. Our business scope includes quality, safety, environment production, low carbon, etc. We provide enterprises and consumers with comprehensive, professional and authoritative services, promote continuous improvement of processes, management, and product quality, contributing to the sound and orderly development of the industrial chain.

We hosted and participated in the formulation and amendment of

national and industrial standards in 2013.



GREEN SCALEPLATE - GUARD THE DEVELOPMENT OF THE **BUILDING MATERIALS INDUSTRY**

As a third-party test and certification agency approved by CNCA and accredited by CNAS, CTC is a key high-tech enterprise in the National Torch Plan. CTC, dedicated to five business sectors including building inspection, certification, safety service, R&D of instrument, and extended service, has already been the most authoritative agency providing test, certification and assessment services in the building materials industry. In 2013, CTC undertook numerous test tasks of major projects in China, and issued 550,000 reports in the year. Those projects including nuclear power engineering, Disney Land, the best practice zone of Expo City, main urban rail transit projects in Beijing and Shanghai, providing professional consultation on low-carbon, environmental protection, quality, safety for the main venue of 2014 APEC meetings. It has provided standard assessment services for over 620 enterprises, and offered consultation guarantee for the safe operation of building materials enterprises.



PRACTITIONER OF INTERNATIONAL TECHNOLOGICAL COOPERATION

China Building Materials Academy (CBMA) has organized and undertaken high-level international meetings (e.g. International Symposium on Cement & Concrete), joined and taken important posts in multiple international academic organizations (e.g. RILEM). Since the first international standard for the industry published in 2011, CBMA has successfully published 3 international standards for the industry in 3 consecutive years, which significantly improves the authority and influence of China in the international standardization field. To occupy the international commanding height of the industry, CBMA runs and issues English periodicals all over the world. The successful bid to host the 14th International Symposium on Cement & Concrete realizes the long-cherished wish of a few generations of Chinese cement scientists. Depending on the strong power of innovation and the achievements made by active involvement in international technological cooperation, CBMA was highly appreciated, and identified as a state-level "Demonstrative International Technological Cooperation Base" of the industry by Ministry of Science and Technology of PRC.

Prospering Innovation Culture

Giving full play to our advantage in scientific research and our influence, we have built platforms for communication, promotion and sharing to drive and prosper the innovation culture.

Industry websites and professional publications are run to timely publish frontier information and share technological results and commercial messages. By building resource repositories (technical innovation institutional repository, technological result database, etc.) and information inquiry platforms, we offer multiple channels of information exchange and technical communication to building material enterprises.

We hold overseas and domestic academic meetings, run forums, develop activities of exchange and visits to offer platforms of communication and promotion to specialists and scholars, serve innovation and common progress, accelerate technological upgrading and reform in the industry and related fields, and motivate technological innovations to faster and more effectively serve sustainable development of the society.

Professional exhibitions are undertaken to collectively exhibit and recommend new technologies and products, offering platforms and services to technological result industrialization, thus pushing technological progress and result sharing in the industry.

622

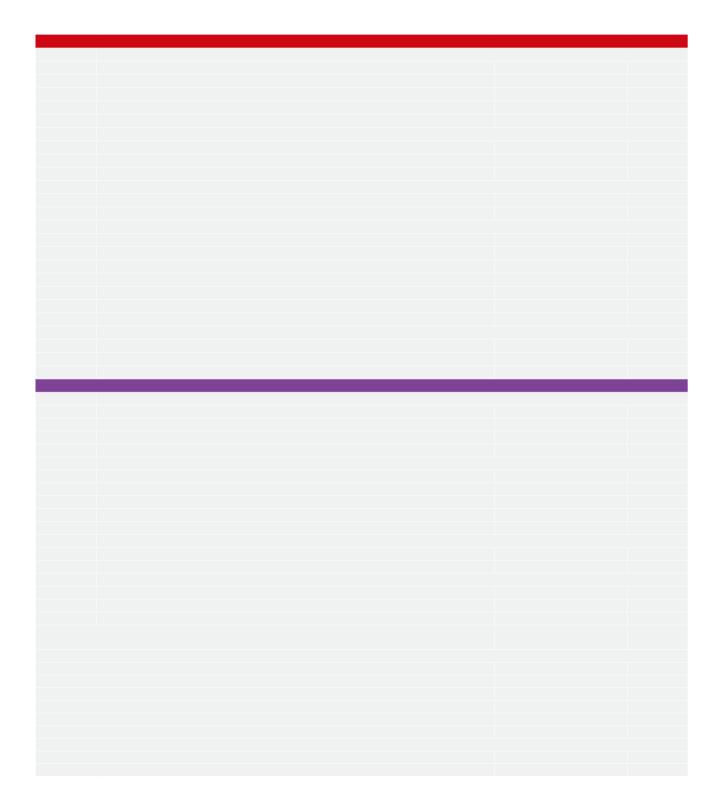
 academic exchange activities were held and organized in 2013.

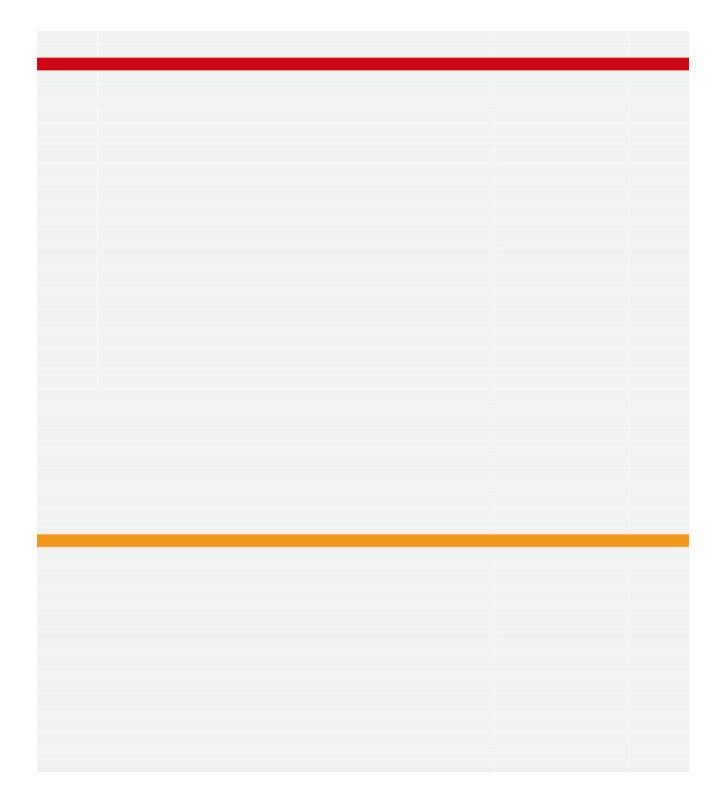
Prospect

Looking forward to the future, a profound change is ongoing in the domestic building materials industry, and structural adjustment and industrial upgrading have been a consensus. Under the new situation, "reform" is a key word for corporate development, and "innovation" is the engine for market competition. The achievements made by CNBM in recent years were attributed to keeping to the path of marketization, observing the model of "Market-oriented Operation of Central Stateowned Enterprises", vigorously developing the mixed ownership and depending on innovations of technology, management and mechanism. On the basis, we have played an active role in making progress while maintaining stability of national economy.

Continue to reform. We will continue to vigorously promote restructuring, transformation and upgrading. On the one hand, the "standardized and stratified" management will be deepened and the "eight management measures" will be put into practice according to the requirements of "beforehand, fine, careful, pragmatic", to build CNBM as a "six-star enterprise" by seizing opportunities, preventing risks, solidifying the development foundation, enhancing the intrinsic quality and improving quality benefits. On the other hand, the institutional and mechanism innovations will be deepened while adhering to principles and directions, emancipating the mind, focusing on innovation and collaboration, keeping the foundation firm.







No.	Content of Indicator	Position in Report	Nature of Indicator
E1.10	Measures for green office	P52-53	Core
E1.11	Green office performance	P52-53	Extended
E1.12	Saving energy by reducing business trips	P52-53	Extended
E1.13	Green buildings and sales network	N/A	Extended
(E2)	Green factory		
E2.1	Establishing energy management system	P52-53	Extended
E2.2	Energy conservation policy and measures	P52-53	Core
E2.3	Total annual energy consumption	P18	Core
E2.4	Comprehensive energy consumption per unit output value of the enterprise	P18	Core
E2.5	Policy and measures for utilization of new, renewable or clean energy	P54-55	Extended
E2.6	Utilization amount of new, renewable and clean energy	P54-55	Extended
E2.7	Policy, measures or technologies for reducing waste gas emission	P56	Core
E2.8	Emission and emission reduction of waste gas	P19	Core
E2.9	System, measures or technologies for reducing waste water discharge	P56	Core
E2.10	Emission and emission reduction of waste water	P19	Core
E2.11	System, measures or technologies for reducing waste emission	P56	Core
E2.12	Emission and emission reduction of waste water	P19	Core
E2.13	Policies and measures for the development of circular economy	P55	Core
E2.14	Cyclic utilization rate of renewable resources	P54-55	Core
E2.15	Building a water-saving enterprise	P55	Core
E2.16	Annual consumption of fresh water/ fresh water consumption of unit industrial added value	P19	Core
E2.17	Volume of neutral water reuse	P55	Core
E2.18	Plan and action for the reduction of greenhouse gas emission	P50	Core
E2.19	Emission and emission reduction of greenhouse gases	P51	Extended
(E3)	Green products		
E3.1	Proportion of suppliers passing ISO 14000 Environment Management System Certification	P51	Core
E3.2	Measures to improve suppliers' awareness and capabilities of environmental protection	P51	Extended
E3.3	Number of suppliers receiving punishments in respect of environmental protection, and number of punishments	N/A	Extended
E3.4	Support for R&D and sales of green low-carbon products	P58-61	Extended
E3.5	Measures and performances of waste products recycle	P61	Core
E3.6	Policies and performances of package minimization and recycle	P61	Core
(E4)	Green ecology		
E4.1	Protection of biological diversity	P57	Core
E4.2	Protection of natural habitats, wet land, forests, wildlife corridor, and farm land in constructions	P57	Extended
E4.3	Ecological restoration and governance	P57	Extended
E4.4	Rate of ecological restoration and governance	P57	Extended
E4.5	Public welfare activities for environmental protection	P51	Core
	Part 6 Report Postscript (A Series)		
(A1)	Future plan: Corporate planning on social responsibility work	P98-99	Core
(A2)	Report Evaluation: Evaluation of experts in social responsibility or industry experts, relevant interested parties or professional organizations on the report	P104	Core
(A3)	Reference Index: Application of indicators as required to be disclosed by the guide	P100-103	Extended
(A4)	Feedback: questionnaire of readers' opinions and feedback channel for readers' opinions	P105	Core

Rating Report



Feedback

For the purpose of better performing our social responsibilities, we would love to hear your comments and advice and earnestly invite you to put forward your valuable opinions on our work and report. If the blank space is insufficient for your response, please use the opposite side or attach an additional page; if you want to reply by electronic means, please log onto our website at www.

nbm.com.cn, click on "Social Responsibility" and then clic	k on "Social Responsibility Communications - Feedback":
. Your overall evaluation of CNBM CSR Report 2013:	
Very good Good Average Poor	Very poor
2. Your views on CNBM CSR Report 2012:	
Contents: Adequate Fairly adequate Avera	age Inadequate Very inadequate
Number of Pages: Appropriate Fairly appropria	te Average Few Very few
Design: Very Good Good Average Po	por Very poor
Comprehensibility: Very easy to understand Fa Very hard to understand	irly easy to understand Understandable Hard to understand
3. What information would you like to get from CNBM CSR	Report 2014?
Corporate profile Responsibility management	Market performance Technological innovation
Energy saving & environmental protection Emp	oloyee care Corporate citizen Others
1. Your opinions and suggestions on our work:	
nformation in confidence.	n timely respond to your opinions and suggestions. We will keep your
Name:	Age:
Gender: Male Female	Occupation / employer:
Department / position:	Address:
Telephone:	
Postal code:	E-mail:



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Social Responsibility and Energy Saving & Environmental Protection Office China National Building Materials Group Corporation

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