CHINA NATIONAL BUILDING MATERIAL GROUP CO., LTD

Sustainability Report

CHINA NATIONAL BUILDING MATERIAL GROUP CO., LTD

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C° C122028

Thi Rep tt e ect Chi a Nati a B idi g Mate ia G p C ., Ltd.' (CNBM) tai abi it a d cia e p ibi it pe f a ce.

O A g t 26th, ith the app a f SASAC, Chi a Nati a B idi g Mate ia G p C p ati (CNBM) a d Chi a Nati a Mate ia G p C p ati (Si a) ca ied t e ga i ati . Si a a ta fe edi it CNBM ith c pe ati f e cha ge. Afte the e ga i ati , CNBM ha a e a ea d i acta the pa e t c pa .

Ja a 1st Dece be 31st, 2016; gi e the g ig c ti it fce tai b ie e ead p ject, ec te ti e the ta d ec d a te f 2017, the detai f hich a ei dicated i the Rep t.

A a ep t.

A h - ed c t ed (i c di g ab te a d ea ie c t ed) e be f CNBM. F b e it, the te 'CNBM', the 'G p' p'a d 'We' a e edi the

A the i f ati a d data ed he ei c e f the Head a te a d e be c pa ie f CNBM. N te ha e bee ade i the Rep tt i dicate i f ati f e te a efe e ce. U e the ie tated, a eta a t a e e pe edi RMB.

Thi i the e e th cia e p ibi it ep t e ea ed b CNBM a d ta ti g f thi i e, the ep ti e a ea d S tai abi it Rep t. Y ca e et the pi t e i f each ea ' ep t ia the c tact i f ati the c e. Y ca a ca the QR c de be g t http:// .c b .c .c /EN/t d ad the e ect ic e i a d ece i ef the e ated i f ati .

Thi ep t a epa ed acc di g t the *Guidelines for the Preparation of Corporate Social Responsibility Reports in China (CASS-CSR 3.0)* i ed b the Chi e Acade f Sci ce, *CNBM Administrative Social Responsibility Ful ilment Measures and CNBM Social Responsibility Management Information Collection Measures*. The detai ed p epa ati p ce ia f :

De i g the a a kpa, c e i g ee ti g a di igd c et	A a ig take h de 'c ce, ide tif i g a a aj t pic, t di g CSR ta dad a dg idei ea d e te d	De i g the i dicat f if ati te, aki g it fa a ca ee a pe
C ecti ga da a a ig ate ia f e be c pa ie, f cti a depa t et a d ce a d edia ep t	D a i g p ep t fa e k, de i g t pic, a dc pi i g t d aft	C ti g CSR ea di gg p, f cti a depa t et a d ce f Head a te, e be c pa ie, take h de a d CSR e pe t
Re i i gte t, e if i g data a d ef-checki g ta dad	Readabi it, i ati a dc ite c	E a ati g acc di g t the *Rating Standards of Corporate Social Responsibility Reporting in China (2014)*
De ei g t take h de ia tipeca ie a d cha e	A a i g de cie cie a d aki g i p e e t pa	

The a cia data i the Rep ti de ied f the CNBM 2016 A a Fi a cia State e t hich ha bee a dited b Bake Ti Chi a.

The e te a data i the Rep ti de ied f the data ea ed b thi d pa tie th gh edia, the ce f hich a ei dicated i the Rep t.

The a cia data i the Rep ti de ied f CNBM' CSR if ati a age e t te . The data i the te a faith f ep ted b the f cti a depa t et a d ce f the CNBM Head a te a d it e be c pa ie i acc da ce ith the *CNBM Social Responsibility Management Information Collection Measures*. The data f e be c pa ie a b itted t the Head a te afte bei g app ed at a e e ; each depa t et t ce f the Head a te e ie ed the data f e be c pa ie a d the e ed the data th gh a pi gata p p ti f at ea t 5% i de t e ei ta da di ati , e iabi it a d a the ticit .

The p epa ati f the Rep ti ba ed the *Sustainable Development Report (G4)* p bi hed b the G ba Rep ti g I itiati e (GRI), the *Social Responsibility Guide (ISO26000)* i ed b the I te ati a O ga i ati f Sta da di ati (ISO), the *Guidelines for the Preparation of Corporate Social Responsibility Reports GB/T36001-2015* a d the *Guidelines for the Preparation of Corporate Social Responsibility Reports in China (CASS-CSR 3.0)* i ed b the Chi e Acade f Sci ce, etc. P ea e efe t page 88-91 f the Rep t f the be ch ak i g bet ee the Rep t a d CASS-CSR 3.0 a d the e a ati e t .

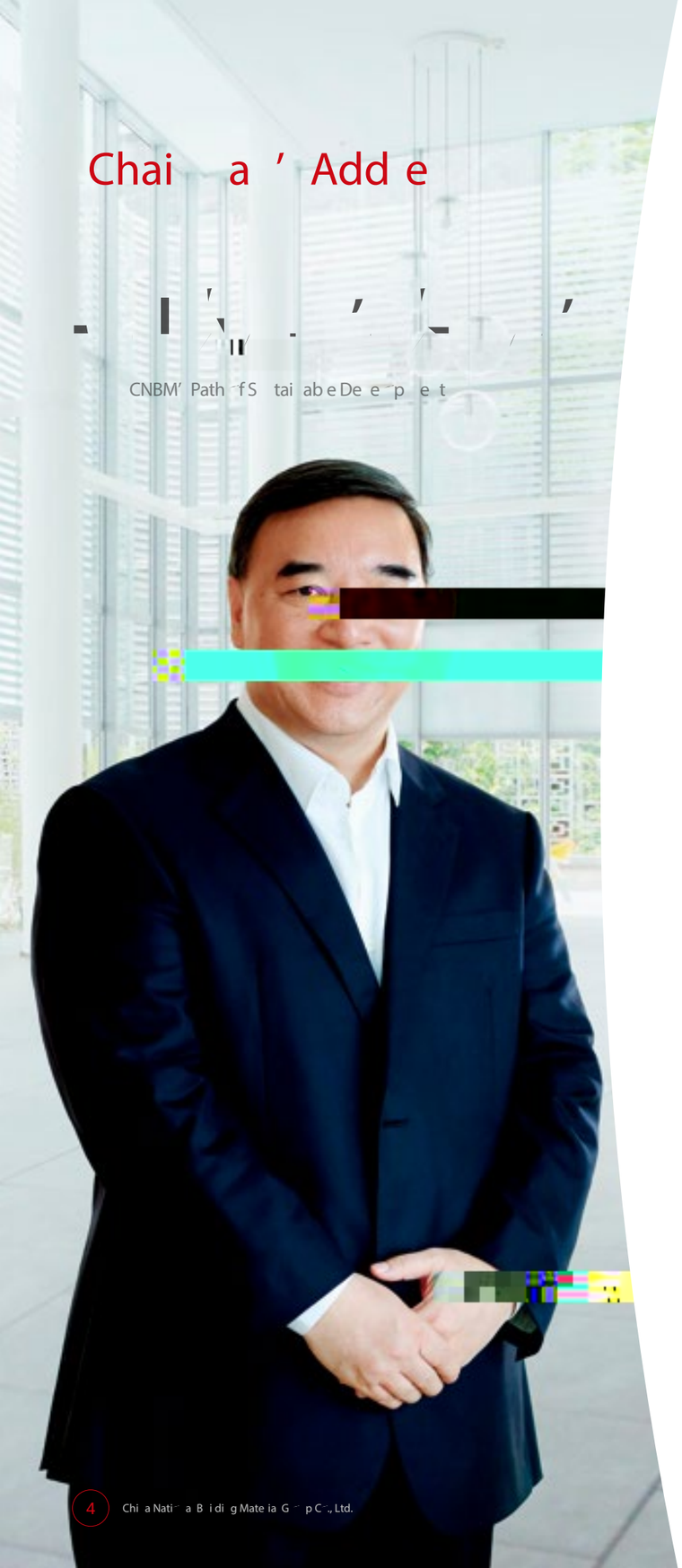
Y ca c p ete the feedback page at the e d f the Rep t a d e di t th gh fa ai, i it the cia eb ite f c pa ca the QR c de be a d i pi i the eb ite WeChat; ca a c tact di ect th gh the c tact i f ati the back c e.

Sca the QR c de a d e d feedback th gh the eb ite

Sca the QR c de a d e d feedback th gh WeChat

Chai a ' Add e

CNBM' Path f S tai ab e De e p e t



Chi a Nati a B idi g Mate ia G pC ., Ltd. (CNBM) i i a e tage f de e p e t. O A g t 26th, 2016, O a g t 26th 2016, the igi a CNBM i c p ated ith SINOMA. CNBM beca e the "ai c aft ca ie" i the d b idi g ate ia a ea. The bjecti e f the e g pi tj tt be a ge i ca eb tt e f bei g 'a ge't ad bei g 'g eat' a d-ca c pe he ie b idi g ate ia id t g p.

Chi a' ec ic e t i ac cia tage f the c ti ta f ati f the d a de et, a ea ec ic et ct i g a d pg adi g. If ca e pa i i the fi t 'L g Ma ch' f Chi e ee te pie ice ef a d pe i g p, the ec dL g Ma chi i ta iti f La get G eat. A g eat e te pie ha th ee i p ta t feat e: the fi t i hai g a ge id t ca ea d t g a ket i f e ce; the ec di achie i gt p-a ki g b ie pef a ce a dc eati g g-te a ef the ha eh de ; the thi di ha i g t g tai ab ede e p e t capacit t e ai i icbeth gh ef-eg ati ega de f hat happe i the a ket.

Thei ati eta f ati f 'a ge't 'g eat' i a ie itabec e, ab eakth gh path a da ad f pp t it f the ec dL g Ma ch. The e CNBM i dete ied t bec e a ge at c pa a d a a idf dati f tai ab ede e p e t. O tategi ii i t b ida d-ca c pe he ie b idi g ate ia id t g pi the b idi g ate ia id t, a d p iti i gi t bec ea eade fid tia c idati , a i at fta f ati a d pg adi g, a d api ee fp d cti capacit c pe ati a g ite ati ac itie. B ceati g the thee c e th ghi ati , gee de e p e t, a di te ati ac pe ati , eai ata high-e d, i te ige t, gee a di te ati a ta f ati .

Bei g high-e d ea e ha cig t ct a adj t e ta d tech gica i ati , f the e te di g thei d tia chai th gh the c pe he ie appicati f ch de a a fact igid t e ici ati , the c bi ati fp d cti a d e ea ch, a d i teg ated i ati , c tat pg adi g t ad highe e d f the a e chai a d ice ai g the ea a e f thee te pie. A age be f high-e d CNBM p d ct ha e p g p, ic di g peciace e t, eect ic ga , ph t taic (PV) ga , taighta d pe t gpa te b a d, t p-g ade ga fibe eect ic a , CIGS ce , T-800 ca b fibe, ithi batte pack a d i d tia ce a ic.

I te ige cei the c e f 'I d t 4.0' a d 'Made i Chi a 2025', a d it a the aj ta f ati a d pg adi g di ecti f the a fact igid t. Chi a U ited Ce e t Tai ha C ., Ltd. ha b it the d fi t 'I d t 4.0' i te ige t'd ea ce e t fact '. The fact ha eai ed' a ed p d cti th gh f GPS p iti i g, bie i te et, big data p ce i g, a da tifici a i te ige ce te . The a age e t f the p d cti ie the ef e th, a d thei dicat fe eg efficie c, e i e ta p tecti a d pef a ce ha e eached the dad a ced e e. Th gh deep i teg ati gi te ige ce ith high-e d p d ct, eca atch di d ai ed c e de a d ith a p d cti , a d achie e c -b da pe ati , th p tig digiti ati fke e ip e t, e ha ci g i te ige ce f tech gica f , ed cigc t, ai ge eg a di ceai g efficie c.

'Gee ' ea acti e ep d igt ci ate cha gea d e capacit , afeg a di gg ba ec gica ec it a dadhei gt gee , - cab a dc cica de e p e t. Uph dig t g a a e, CNBM pace the ei e t, ec it, ait, tech g a d c ti de fi p ta cea di pe e ted the 'B eSk Re p ibi it 'acti pa . We ha ebee ig p ti ge eg c e ati , e i i ed cti , ta f ati a d pg adi gi ke fied cha e eg c e ati a dc ted cti , p ti a de i i ed cti , ec gica p tecti , a dcic a ec . I te fa ate ia, e tickt the idea f cic a ec t e id tia a tea d ba c t cti ate a ha eca. O a ac pti f id tia a teha e ceeded 100 ii t . D igp d cti , e tief e e i i f ate ate, ga a d ate ia, a dt ti p e ec ci gcapacit , ea di g thei d t i e eg c e ati , tp t-e ticti a d ef-eg ated e i i ed cti . F p d ct appicati , epacei p ta ce e eg c e ati , e i e ta p tecti , c f t a dhea th, a d tiet p ide ait a d e i e ta fied p d ct.

'I te ati a' ea acti e p ti g the 'G igO t' fe ip e ta di te ati a p d cti capacit c pe ati , f e p ig the big a ket f O e Bet, O e R ad, i ati g 'G igO t' tategie a dt igt b id the tech ica e ip e t f b idi g ate ia a the e ba d a e f Chi e ei d t. Wea e c itted t b id ehidde cha pi , ad a ce tech g , a de p e the ite ati a a ket, ith the g a f cha gi g f "bei g the d fact "t "the d i fact ". We if c the id-t -high-e di te ati a a ket, i p e the c teffecti e e f p d ct a dpace e phai ite ati a p d cti capacit c pe ati . Whie attachi gi p ta ce t c tie a g the 'Beta d R ad' I itiati e, e a ie E pea d the U ited State a i p tat a ket.

CNBM' path f tai ab ede e p e t iba ed the 'th ec e' fid tia i ati , ta f ati a d pg adi g.

The fi t c ei the pg adi g fe iti g id tie. CNBM ha ch f [illegible],

t ct a ef i p ed the ait a d efficie c. We i efi ce ce t b ie pe ati , ca ti-depth i teg ati , c idate the c ep fit b ie , p te id tia c petiti a dc pe ati , a d ceate a bette a ket c diti . We i p e 'high-pef a ce, peciai ed, a d c eciai ed' de e p e t, te g the the ta f ati fe ip e ta d tech g, a dp tee eg c e ati a de i i ed cti a dc t effecti e e. We ia te g the ga b ie, e te d the id tia chai, pg ade the b ie i the 'ect ic, ph t taic, i te ige ta de eg - ai g' di ecti , a di cea e the added a e f p d ct.

The ec dc ei the pg adi g f e tech gica id tie. We i de e p the th ee-e id tie f e b idi g ate ia, e h igad e eeg ate ia t ceate e g thp i t. I te f the e b idi g ate ia, e ii p e the id tia t ct e f the pa te b ad b ie a d high-e d p d ct ice a e the added a e f the p d ct. F the e h igb ie, e i de e p ight eight tee fa e t ct e a dp efab icated ei f ced c cete t ct e, a e a a pp tig te f h ig c p e t. We ip te the E eg P 5.0 h ig te , b id 'gee t ' a dp ide ti f a tec gica e ide ce a d-age ca e e ide ce. F the e e eg ate ia b ie, e i pti ie c petiti e id tie cha id t bie bade, high-pef a ce fibe ga , ect ic ga a d high-g ade efact ie, i p ea de pa d the a fact iga d a ket capacit f p d ct cha high-pef a ce ca b fibe, ph t taic (PV) ga , CIGS thi -fi a ce a dg aphite, a d ake b eakth gh i the fied fb idi g tegated ph t taic a d ph t taic ag ic t e. We ia e te the fied f e eg p e tati a di p e e e eg id tia chai.

The thi dc ei the pg adi g f a fact ige ice b eha cigi ati a d tech ica e ice. Fi t, e ide e p age-cae e ea cha d e ice patf . We igief pa t the e f Chi a B idi g Mate ia Acade (CBMA) a a ag eticfied fi ati , a d pe patf f R&D a d e ice. With a ge ca e R&D, eca ha e a b ightf t e. The ec di lte etp e ice. We i e "I te etp "t pti ie e ice a dp te e f eig tade de cha "c -b de e-c ece+ e ea a eh ig" a d BNBM HOME, a t b ida d-ead i gc pe he ie e ice te . The thi di cab tadi gte ti ga d ce tificati e ice. Chi a B idi g Mate ia Te t & Ce tificati G pC ., Ltd. (CTC) i the a ge t thi d-pa t te ti g & ce tificati e ice p ide i Chi a b idi g ate ia id t a da id tia tech g e ice patf ; iti a Chi a fit CDM-de ig ated pe ati ae tit i thei d t t p ide thi d-pa t cab e ii eificati e ice. The f thi EPC e gi ee i g e ice. We i actie p e the e ea e gi ee i g e ice a ket ad i ate the EPC c t cti de. We ia deepe c pe ati ithi d t pate, a ke f e f the l te et, if ati a d a ttech g, c idate i e t et, a age e ta df - pe ice, a d ceatea e ea fe ip e tg i g t. The fifth ip d cti a d a fact ige ice. Th gh the c t cti f ati d t p at p t, e i ad pt the GE de, f c c t e de a d a dca te te pe ati a d ai te a ce, a at ta e ice package f pe ati a d ai te a ce.

De pite the cha e ge a d diffic tie, e i f ge ahead. A g eat c pa ie e tia hapeda ddie b a ece ati , hich ha t be eaied th ghi ati a d ta f ati . We ha e the c fide ce, dete i ati a dpe e ea cet b ida g ati ge te pie ith f eighta dc it e t t e ce e ce th gh the ec dL g Ma ch. CNBM ti ateg ait ji ha d ith the take h de t ceate the ge eate t e fa ef the ge eate t be fpe pe.

S g Zhipi g

W-- d a ge tg p b--a d

W-- d a ge tc-- e cia
c-- c etep--d ce

La ge tca b-e be p--d ce
i Chi a

B i e Acti itie

Ce e t

CNBM ha a a a p d cti capacit f 520 i i t f ce e ta d 470 i i ^{3} f ead - i c c ete, b th f hich a K ti the d.

Chi a U ited Ce e t C p ati , S th Ce e t C pa Li ited, N th Ce e t C pa Li ited, S th e t Ce e t C pa Li ited, CNBM I e t e t C ., Ltd., Si a Ce e t C ., Ltd., Xi jia g Tia ha Ce e t J i t- t ck Ce e t C pa Li ited, Ni g ia B i di g Mate ia G p C ., Ltd., a d Ga Qi ia ha Ce e t G p C ., Ltd.

F at G a

CNBM ha a a a p d cti capacit f 19.2 i i eight ca e f high- a it q at g a . We ca p d ce t a-thi g a p d ct f 0.15 t 1.3 .

T i ph Scie ce & Tech g G p

E gi ee i g a d P d cti Se ice

We c ti ai tai a ead i g p iti i the a ket f ce e ta d g a e gi ee i g, i e e gi ee i g, c ge e ati e gi ee i g, e e g c e ati a d e i e ta p tecti , etc.; e a e e pa di g a ket ha e i ed f e g a , e e e g , e ate ia , e b i di g a d .

Si a I te ati a E gi ee i g C ., Ltd., Chi a T i ph I te ati a E gi ee i g C ., Ltd., Si a E e g C e ati Li ited, Chi a Ne B i di g Mate ia De ig & Re ea ch I tit te, Hefei Ce e t Re ea ch & De ig I tit te a d Qi h a gda Ga I d t Re ea ch & De ig I tit te

E ip e t Ma fact i g

With e 20 e ip e t a fact i g e te p i e f i g a p d cti ba e, CNBM ha e tab i hed a i d t ia e ice p atf ith c p ete categ ie , ad a ced tech g , high- a it e ip e t, e i ite k a hip a d f pp t.

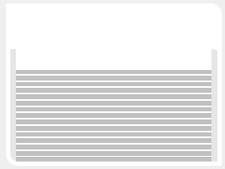
T i ph Scie ce & Tech g G p, Chi a T i ph I te ati a E gi ee i g C ., Ltd., Hefei Ce e t Re ea ch & De ig I tit te, Chi a Nati a U ited E ip e t G p C ., Ltd. a d Si a Tech g & E ip e t G p C ., Ltd.

L gi tic & T adi g

We e e I te et tech gie t e cie t i teg ate the e ice i k f b k b i di g ate ia pp ie , gi tic a d t a p tati , i a ce a d c edit, a d i pecti a d a a ti e; e p ide f -package, c p ehe i e ti f i te ati a t ade, a d a e i ted a a i p t e te p i e e j i g aj pp ta d a ke b i e ci c ati e te p i e b the Mi i t f C e ce.

Chi a Nati a B i di g Mate ia a d E ip e t I p t & E p t C p ati , Beiji g Ne B i di g Mate ia (G p) C ., Ltd., CNBM I e t e t C ., Ltd. a d Chi a Nati a Mate ia I d t I p t & E p t C p ati

Ne Mate ia

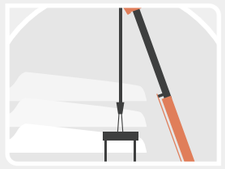


CNBM' a a p d cti capacit f pa te b a di ab t 2 bi i 2, a ki g t i the d. We ha e high-e d ba d i thei te ati a a ket a d p pieta i te ect a p pe t ight, a e a 54 aj i d t ia ba e. We p e the eb i e ect ; a e, the a a d pe ded cei i g te, h i g pa t a da chitect a e e g c e ati te, a de te i b i di g e pe te. We p idea appicati ti package f p bic b i di g a d fa i h i g ith c pete p d ct te.

BNBM P bic Li ited C pa a d Tai ha G p C., Ltd.

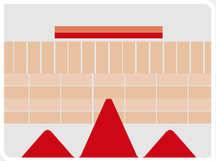
CNBM' a a p d cti capacit f be ga i 1.85 i i t, a ki g t i the d. We ha e the d' a ge t a ka i-f ee ta kf ace p d cti i e ith a a capacit f 120,000 t, a da ati a e te pi e tech g ce te. We p e the p pieta i te ect a p pe t ight f ch packaged tech gie a a ka i-f ee ta k f ace, edi a ka i ta kf ace, be ga a te ik ec ci g p ce, a d . We a ha e e e a p d cti ba e i T g ia g f Zhejia g, Ji jia g f Jia g i, Che gd f Sich a, Tai'a f Sha d g, Z che g f Sha d g a d Eg pt.

Chi a J hi C., Ltd., Tai ha Fibe ga I c. a d Si a Ji ji g Fibe ga C., Ltd.



CNBM' a a p d cti capacit f i d t bi e b ade eache 16 GW, a ki g t i the d. We ha e 9 e ie a d 58 t pe f p d ct ith categ ie a gi g f 1.25 MW t 6.7 MW, a d b ade e gth a i g f 31 t 80. We p e b ade p d cti ba e i Ya i g f Beiji g, F i g, Pi g ia g, Ha da, Xi i h t, Baiche g, Lia ga g, She a g, Ji a, Ba t, Ha ia d G i h, a R&D ce te i Ge a a d a ati a b ade te ti g ce te.

Si a Wi d P e B ade C., Ltd. a d Zh gf Lia h g C p ite G p C., Ltd.



We ha e e tab i hed a h e i d t ia chai f BIPV (B i di g I teg ated PV) ith a f c thi a p d ct a d tech gie. We a e c itted t thei teg ated appicati f e e e g ate ia a d di t ib ted e e g, a d ca i g t the R&D, appicati a d di e i ati f e -e e g h i g. We ha e e e a a ce p d cti ba e at h e a d ab ad. We a p e a 100 MW CIGS thi a ce p d cti ba e i Ge a, a d ha e de e ped e e a PV p e tati i Chi a, G eat B itai, the U ited State, Thai a d a d Japa e pecti e.

T i ph Scie ce & Tech g G p a d Chi a T i ph I te ati a E gi ee i g C., Ltd.

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We e a d ha eh de a di e t ith e ce e t pe f a ce, e e c ie t ith a it p d ct a d e ice , g t gethe ith pp ie a di d tia pa t e , a d p ide a a e c eati patf f a takeh de . Mea hie, ph di g the phi ph f'i d tia i te e t e eigh c p ate i te e t', e a e dedicated t p ti g i d t e t ct i g, t a f ati a d pg adi g, a d eek t achie e t a de e p e t a d i - i it ati ith the i d t a d pee i the a e i d tia chai .

- E ce e t Pe f a ce
- Re p ib e Ope ati S1 410 [S 0 4. 68 80L (e.704 SQ 7. 1 T1c 0.417 -3.177 SQ 0 04T 02-24704 S eW /CS0 CS 1 1 1 SCN1.3.4597 c 0 3 (696417 -7.5563 1.64 3.663 3.663 c3.663 5.686 2.023 7.326 0 7.326 c-2.023 7.326 -3.663 5.686 -3.663 3.663 c-3.663 1.64 -2.023 0 0 0 chSQQ/CS0 CS 1 1 1 SCN3.4597 c 077 7330.497.72.181 SQ 663 3.663

[illegible]

'I di id a Cha pi f the Ma fact i g l d t ' efe t a e te p i e pe i te t e gaged i ce tai pe c a ket eg e t , e ipped ith i te ati a ad a ced p d cti tech gie p ce e , a d eadi g g ba i te fi di id a p d ct a ket ha e. Thi d iti i e t a pect : 'I di id a ' ea that the e te p i e c ce t ate it ta get a ket a di pe i te t c itted t the 'i te i e c ti ati ' f eated ed ; hi e 'Cha pi ' ea that the e te p i e h d h da cha pi - e e a ket p iti a d p e tech ica t e gth ega di g the ect i hich it pe ate .

Dedicated t a fact i g ga be a d ga be p d ct , J hi G p C ., Ltd. ('J hi G p') c ta t cc pie a eadi g p iti i te f ca e, tech g , a ket ha e a de cie c . A ka i-f ee ga be i g a d a ka i-f ee ch ppe be ga a e the aj eg e t fit b i e . B th ei f ced c p ite , the e t p d ct a e ide ed i ch ed a i d p e , a t bi e , e ect ic & e ect ic app ia ce a d b idi g ate ia . The J hi G pi the highe t a ki g pa e (a ket ha e: 22%) i the g ba a ket f the e t p d ct , ith a ha e a high a 35% i the d e tic a ket.

Acc di g t the *Special Action Plan for Cultivating and Promoting Individual Champions of Manufacturing Industry* i ed b the Mi i t f l d t a d I f ati Tech g , b 2025, 200 i di id a cha pi f the a fact i g i d t i be p ted t de t at , a d 600 e te p i e ith the p te tia f bec i g i di id a cha pi i be ide ed a d c ti ated. The J hi G p ha bee i c ded i the i t t-batch de t at . Thi i itiati e i f p actica ig ca ce f i p i g a fact i g tech gie a d p ce e i Chi a. It ca t g ide Chi a' a fact i g e te p i e t be c itted t i ati a d p d ct a it i p e e t, p the i d t t a ch t a d the idd e a d highe d a d d i e 'Made i Chi a' t i e t the d tage, b ta g ide e te p i e t e b d the phi ph 'it take te ea t g i d a d' a d i c ea e the c e c petiti e e f Chi a' a fact i g i d t .

Ta f ati & Upg adi g

We p te the de t ct a adj t et f id tie 'C e1'(ce e t,etc.). C ti ed e t ae ade t ethece etb ie , acce ate de e p eti the di ecti f'high pe f ace, peciaiati ,c eciac cete a dp d ctiati ',a dp te thei p e e t fid tia ta dad .The ha e fhigh-g ade ce eti theG p' p d ctp tf i i 10% highe tha the ati a a e age. Depe dig it tech ica ad a tage , the G pha b it7 peciace e t it a pe ati patf .I the ea tie, e ig p te Jiah a' HLMC (high-pe f ace -cab ic-cike) ce e ta d pti ie the a t fthec eciа c ceteb ie acc dig t the a ketad e ce ie tati picipe.I pa tic a, the k fa ig t theagg egateb ie ha bee a ched,i ig thec t cti f24 agg egate ie ithac bi ed capacit f43.31 ii t . F the e,c ti ede t a ebeig ade t bta tiaiea d pti ie thega b ie , a dacceeateit de e p eti the di ecti f 'ect ic , PV, ite ige cea de eg c e ati '.

We a kee t t apid i p e the p tabi it fid tie 'C e2'(the thee- e id tie). Tha k t the pti iati a dpe fecti f the a t, the cae f theg p b adb ie ha ai tai ed tpacei the d. Ap fe i a patf f the a age e t fe -t peh ig ha bee b itt de e pa dp te E eg P 5.0 H e, a dc tact ha ebee ig ed f 24 d etica d e ea p ject .I the ga be b ie , the f a fE8 high- d ga be ha bee ea ed.I the cab be b ie , a 1,000-t T800 i eha bee b it pa dp ti t pe ati t a ch thee p t fca b be.I the e ga b ie , a a e age fhigh-e did tia p ject ha ebee p ti t pe ati ae c et de c t cti , hich i epe e ted b the ep d cti f ta-thi 0.15 t ch cee ga a d0.2 TFT i idc ta ga b tate.I pa tic a, eha ec e ced the c t cti fa CIGS thi d e ie hich et a d ec df ph t e ect icc e i ate (17.9%), a d a ched a 200 ii 2/ ithi batte diaph ag ate ia p ject.

We acti de e p the e t pe f pe ati 'C e3'(R&D a d e ice). Ma fact ig e ice a ebei g acti de e ped b acce eati g b ie ta f ati a d pg adi g. Chi a B idi g Mate ia Te t & Ce fica ti G p C , Ltd. ('CTC') ha bee a ded tipei te ati a d ati a a fica ti f b idi g tech ica e ice patf ; CBMIE i b idi g l te et fThi g (I T) patf ; Si al te ati a E gi ee i g C , Ltd. i b idi g e ea pa epat ai te a ce ba e ; the Chi a Nati a Ge gica E p ati Ce te fB idi g Mate ia l d t ide e pi gi the di ecti f ie a de e p eta d e ea a ket ; a d Si a G pFi a ce C , Ltd. ha b it p a cia e ice te that a e eth a 2,000 e be it t be i ta e acti e.

Deepe i g Ref

Afte bei gide ed b SASAC a'd a-pi t e tepi e'f the'4 ef 'e pei e ti 2014, CNBM a ide eda a'pi te tepi ef 10 ef 'b the a ea th' it i 2016. At pe e t, the G pi de taki g 4 ta k fpi t ef . Spec ca , a tage a ha bee c peted f the ied e hipec e pei e t; the *Study on Practices of Mixed Ownership Development in SOEs - Illustrated by the Case of CNBM*, a pject f the P bicit Depa t e t fthe CPC Ce ta C ittee f t d ig Ma it the ie a d aii g ip ta te pei ce i ipe e ti gc t cti p ject , ha bee c peted i c pe ati ith a thi kta k; c ti ede t ha ebee ade t deepe thee pei e t fp tti g the b a d f di ect 'f cti a d p e it practice, a d acti e p eh t pe fect the p fe i a a age e t te ; the CNBM-Si a ege ha bee ad a ced tab a dha had ig ca t e ect ; a d Si a Jia g i E ect ica Ce a ic C , Ltd. ('Si a Jia g i'), a e be f CNBM, ha bee ic ded the tbatch fpi te tepi e f ipe e ti g thee p ee t ck e hip te i ied e hipe tepi e. CTC a cce f ited, aki g it Chi a tate- ed ited c pa t i teg ate the f cti fte ti g a dce fica ti .I additi , e ea t cke it di e fica ti p ject ha ebee acc pi hed, i c di g et ct i g 35% f the t cke it fTai ha G p C , Ltd. de the t ck-f - t ck eth db BNBM, i jecti g 100% f the t cke it fTai ha Fibe g l c.i t Si a Scie ce & Tech g C , Ltd., a d the p cha e fK & D Tech g b Ti ph.

On e be 9th, 2016, CTC a cce f ited at the Sha ghai St ck E cha ge, bec ig CNBM' 15th ited c pa . A a ip ta t achie e e ti the a ket- ie ted ef fate ti ga dce fica ti b d, the cia appea a ce f CTC i the A-Sha e a ket a fbe ch a ki g ig ca ce.

A thi d-pat high-tech de e ice e tepi e, CTC ep d it i itiati et e ie e t f ef a dde e p eti the p ce fe tepi e- ie ted ta fe a d a ket- ie ted ta f ati , i p e it p fe i a de e p e t capabi it th gh

Re p ibi it Ope ati

La f Ope ati

We i it the ki g e f a f , c pia ta dh e t pe ati .The G p ha bee a a deda AAA c edit ati g f a ea .The CNBM-Si a e ge ha bee c ti pp ted b fi a cia i tit ti . A i e f c edit f RMB 375 bi i ha bee e tabi hed b ig i g c tact ith 8 ba k ; the CNBM I d tia De e p e t F d (t ta a t: RMB 80 bi i) ha bee j i t e tabi hed ith Chi a l a ce l e t e t C ., Ltd.; a d the e be e te pi e ha e i ed b d f e RMB 100 bi i .

We i it fai c petiti ith ti fi gi g the ight f c petit a d pa t e th ghi p pe ea i c d ct (f a d, b ibe , a ici p ice-c tti g, etc.), a d e ad cate b idi g g d pa t e hip ba ed f ee i a de a it .I i te ati a pe ati , e fi ai tai ati a i te e t a d dig it , a d acti e e p d t a ici a ti-d pi g e e t .With g eat atte ti paid t p ti g the c cept f fai c petiti , taff a e ga i ed t pa ticipate i fai c petiti t ai i g.

We c ti et i p e ega affai echa i .Maj deci i a d a age e t c t act t be bject t a t ict ega e ie p ced e.R e a d eg ati ca be i ed a dp ti t p actice if app ed b the Lega Affai Depa t e t; e adhe e t the i teg ati f a p p a i ati a d ega affai a age e t th gh ch ea a ga i i g a p p a i ati acti itie f diffe e t f ; a d e p bici e the c cept f ega te 'a d pe e t i k i a te ic a .

With ch atte ti paid t a ti-c pti , e deep i teg ate a ti-c pti i t the ef , de e p e ta d tabi i ati f the e te pi e; e e pha i e i teg it i ka d ake eff t t c eate a c t e fi teg it ; e ake eff t i efficie c pe i i a di pecti a t gi e f pa t it effect ; a d e e tabi h a d pe fect di cipi e i pecti a d pe i i b die , a d f the de e p di cipi e i pecti a d pe i i ga i ati a d tea , a t c ti i p e the ki g efficie c a d a it f the G p.

I 2016, Beiji g Ne B idi g Mate ia (G p) C ., Ltd. ('BNBM') the 'Chi a l d t A a d', hich i h ed a the 'O ca f Chi a' I d tia C it '. A the p e ea a d f Chi a' i d tia c it , e tabi hed ith the app a f the State C ci i acc da ce ith the Pa t Ce t a C ittee' i t cti a d deci i , thi a a dai t e ect a d c e d i d tia e te pi e a d p ject that ep e e t the highe t e e f i d tia de e p e t, a d ake ig ca t c t ib ti t e ha ci g c p ehe i e ati a te gth, p ti g ec gica p g e a d ati a ec ica d cia de e p e t, a d pa i g a de t ati e a d d i i g e i i d tia, egi a a d c p ate de e p e t.

Adhe i g t the c cept f 'c eate the f t e ith g ee e ', BNBM ha b i t a f ife-c c e g ee i d t chai th gh tech gica i ati , a di pp i g a i e b idi g ate ia a d e -t pet ta ti f c p ite a e ati , i te i dec at.137a hc i ati , a d fab gh (a cea)4 (t)6 (d)0 -1.286 TD t cti g t p ab c (b i di)11 (,(i d t)-4 (ia)0 -1.286 TD)5 (ic fa ciitdie)11 (, ciitat)-25 Chi , a d (c)10 (e (dit t, p)10 (i t)4 (ta , a ia)-0.026 Tc 0 -1.286 TD ea , c)6.1 (p(dh g).26 ( )1.26).26 itht ae b ec t i e e e ith thea etM e i g jecc a f f c eti(ti ,)274.9 425 dD BNBM ha bthai(ed g e)-4 k t, ha eha hig

02

We c pehe i e tii e i d t ia a d ba a te e ce a d a fact e ca b p d ct ith i i a c pti a d e i i ; e a e c itted t p idi g ciet ith g ee a d e i e ta fie d b idi g ate ia ith e iab e a it , a d p idi g p d ct a d e ice pp t f the e e e g i d t ; e a e de ighted t ha e e ecti e e e g c e ati tech gie a d a age e te pe ie ce, e p e de e p e t de f the i d t a d ec gica e i e tt c -e i ti ha , a d ad cate the tai ab e de e p e t f the h e i d t a d ciet .

- G ee Ope ati
- G ee Ma fact i g
- G ee P d ct
- G ee S e g

I 2016, CNBM' i e t e ti e e g c e ati a d e i e ta p tecti eached RMB

4.3 bi i

I 2016, CNBM' i ta ed c ge e ati capacit eached ab t

2,025.3 MW

I 2016, the t eat e ta d e e a t f id a te eached ab t

149.1 i i t

O h e i d t bi e b ade e f-de e ped b Zh gf Lia h g C p ite G p C ., Ltd.

G ee Ope ati

C pia ce ith La ad Reg ati

We tict abide b the id tia acce te a de te c ed tdated p dcti faci itie. We tict i pe et the ati a ta eeg c pti, c ti i pethee cie c f eeg tiiati a dkeepthee eg c pti f ai p dct at a ada ced ee. We tict abide b ta da d f p ta te ii , i pe it iga de i ed cti te , a de ecea p dcti a d the eeti g fe i ta da d.

Mi igica ied tacc di gt the *Green Mine Convention*. We ca tec gica et ati ig dti e hiede e pig iet e ie. We epect the *Biological Diversity Convention*; ca t tict ea ati dic i the ite ecti a da t ffact ie; p tect at a habitat, eta d, f et, idifec id adagic t a add igthec t cti fp ject; a d ced cead ee ect the di ge i eta dc itie t the ii .

We tict pef thee i eta a e etapp ap ced ef p ject, i pe etthe'3 i ta eitie' e ie et fe eg c eati ad e i eta p tecti f eda et i et etp ject, a dea et ga ie a dca t thefea ibit ea ati ad e i eta i pact ea ati f e ec t cti epa i p ject. We ai tai e i eta ik a ig echa i, pepa ec tige c pa ad pee ta d ed cep te tia e i eta ha a d.

S te atic Ma age e t

We ha ee tabi hed a cia ep ibit a d eeg c eati a de ii ed cti ceat the CNBM Head ate. Me be c pa ie ha ee tabi hed eated f cti a ga iati fdi ee t categ ie a dee, achie ig the ea c eage f the G p' eeg c eati a de ii ed cti a age et te .

We attach g eat i p ta ce t the c t cti f eeg c eati a d e ii ed cti tea. Ma age et pe e ke p iti ha e btai ed p fe i a ce ate. We c ti e ich the k edge fe p ee ep ibef eeg c eati a d e ii ed cti, a di p ethei p fe i a aitie a d a age et c pete ce.

We a age e be c pa ie ba ed thei categ ie; f ate tategie, ge eap icie, pa a d te f eeg c eati a de ii ed cti; a d i p e kth gh the th ee te f ea e eta d tati tic, it iga d a a i, a dea ati a da e et.

Wei pe eta ta da diati a age et te a d eaiee eg c eati, c pti ed cti a dcea p dcti th gh ed a age et. The a fact igc pa ie f the G p ha e e tabi hed ta da diati a age et te ega di g ait, thee i et a de eg, t f hich ha ebee ce ed.

Wei teg ate the f df eeg c eati a de ii ed cti it the ea b dget a age et te , a df ate a eated e pe dit epa t g aa tee the i pe e tati f tech gica p g adi g a d a age eti p e et.

We ha ee tabi hed a if ati dic e echa i. We dic e a aeeg c eati a de i eta p tecti pef a ce iaa a CSR ep t, a d accept the pe ii f takeh de. D ig the fea ibi it d, c t cti, ec t cti a d accepta ce f ap ject, e take ad ice f ea b eide t a d takeh de i the egi, a d ed ce the ad e ei pact f the pe ati acti itie f e tepie thee i eta d ciet t the ii .

I itiati e a d G ida ce

We ha ef ated detai ed g ee ce pa i cha pect a p e a ig, ate a ig, ed cti f cec abe a d .O gee cepe f a ce i ic dedi the tie it iga d ea ati te . We acti e p te the c t cti fa ide c fee ce te , a d ea a ageb ie ta ei a cie c a, fa ig -cab ehice.

We a eacti ei e i eta p tecti efa ea d p bicit acti itie, d ig bett p tee i eta p tecti c cept. We d ate e ead ppie t pp t the c t cti fe i eta p tecti faci itie; ede e pec gica f et ith ca c it e titie t j it c pe ith ci atecha ge; a d e acti e p tee eg c eati, - cab ife tea dgee c pti a aee.

Keepi g the e p ibitie fe tepie i id, ee dea t bec eap actiti e, de tat a dad cat fc pi g ith ci atecha ge. We acti e de take ati a eeg c eati a de i ed cti i , ha ei itiated a d ig edc eti a d itte p p a, a dad catea b tep et ci ate cha ge, e i eta p tecti, d t-ha e teat eta d -cab de e p et. We a ad catea di pe e tpeak-hifti g p d cti, eie ig the p be f e capacit a de p ig tai abe de e p et.

I the ie that it p ide ith i et e i ig e ice, CNBM Xi'a E gi ee ig C , Ltd. acti e a de ecti e i pe e t ide pe e egetati k. With tip e fact (ckte t e, ckp pe t, pe ati', i thick e, c ei ita ce, d ght ei ita ce, c de ita ce, e-g ee i ge ect, etc) take it c ide ati, the'g a pa ti g th gh h d - eedi g (CBS) + e egee pa ti g ide pe' che ei ad pted. Spe ca , CBS b tatei pa eda ddi e e tt pe f h ba dga eed ae t c titc te a egetati -ba ed a d cape hich i e - atched a dc di ated i the e tica di ecti . S fa, the c pa ha c peted e egetati k ith a high ia ate at ta a eag eate tha 40,000 ², th e ecti e c t ig ie i at the i e a dc eati ga gee a d cape bet e iae tt igi a at a egetati . Thi kha bee a i paied b ca g e et, e a de ide t.

Mi e bef e e egetati . i e afte e egetati

▲ CBMI Ga adagh EPC p ject i A e baija

I 2016, e ga ied pa ticipated i , , e i eta p tecti p bicit e e t

I 2016, / pe -ti e f e p ee atte ded tai ig ega di g eeg c eati a de i eta p tecti

I 2016, / - ite c fee ce ee epaced b ide c fee ce

G ee
Ma fact i g

S ce Red cti

O ie aebatedb ea f ti-
c e h tdea bati gt ed ce h ckad
e ce ate;thec p e t f iea
e cebatche ae ea edacc ate t
etabi hea abep pti ,e ecti e
e -gade e,i p eh ge iati
adgief pa t the a e f iea
e ce;a dc edbetc id aeb itt
a idthe aiedd ta de eg c pti
fa t bieta p tati .

The a t fthep d cti i ei pti ied.
S ch ea e a ph icai ati ,gee i g
hied a d cc pati a p tecti a etake
t ed ce ie, each ati a ta dad
ieteat e ta d eie ethei pact f ie
the ta a d di gc itie.

O tdatedp d cti e ip e ti p t t
f e icei g dti e.Ki a df ace

G ee P d ct

I de t pp te atic - cab e i eta fie d p d ct, eha ei teg ated the c cept f cab a d e i eta fie die it the h ep ce f R&D, de ig, p d cti , packagi g, ae a d ec ci g.

Adj ti g the ba ic b idi g ate ia p d ct i : We acti e ec age the ce e ti d t de e pi the di ecti f 'high-pe f a ce, peciai ed, ead - ied a dc e eciai ed' a t pp c t e ith high- ait, g ee a d ca b ce e tp d ct. B aki gi ati i a de te di g the id t chai , eg ide the ga id t t ta f a d pg ade i the di ecti f 'e ect ic, PV, i te ige ce a de eg c e ati ' a t i p e the added a e f the p d ct.

We ea cha dde e p e b idi g ate ia i acc da ce ith the f c e c cept fe eg c e ati , afet , c f ta dec g. Wei p e the ait a de te d the e ice ife f p d ct, a d ed ce epetiti e p d cti . We de e pa d ei d tia ate e ce a a ate ia t p d ce b idi g ate ia, the eb ed ci g the c pti f at a iea e ce a dachie i g ai ied ec ci ga de ecti edip a afte e ice ife.

O e h igp d ct t i teg ate high-pe f a ce gee b idi g ate ia, b ta j it ea e ith e e eg tech gie a di te ige tc t tech gie, ceati g' e e i i', 'e eg p 'a d'ft ec' e'dea h e.

We p ide high-e da d ei aied t b ade, thi a ce pack a d peciai ed ce e tp d ct, g aa teei g the dde e p et f ch e e eg id tie a idp e, ap e, h d p e.

I ge i de e ped b Lia ga g Zh gf Lia h gC pite G pC , Ltd. ('Zh gf Lia h g'), the LZ75-5.0 b ade f h e id t bi e a cce f ee ea ed at the c pa ' b ade fact i Lia ga g. The b ade i 75 i eg th a d t ph - ei ta t (de ig ge e ati a ea: IEC IB), a dha bee cce f appi ed i the Pi ghai Ba 50 MW O h e Wi d P e P jecti F jia . I J 2016, the pe t ph Nepa tak a ded i the c ata a ea f F jia . A th gh the ai id f ce ea the ce te a a high a 17, the b ade de t the pe t ph a d ith t d the te t.

! !

Afte ea 40 ea f e itti ge p ati a de t de ted t ceati g e -t pe h ig, the g ee t pt the a ket b CNBM ha eb ed e e he eath e a d ab ad, e p di g t De g Xia pi g' e t t e tt' ake h ig b it ith e - t pe ight b idi g ate ia bette a d bette, a d it the t the a dabi it f the pe pe'.

I the pa iga dc t cti , a 43 h eh d f the iage e e take a a h e. O e f Beiji g' t bea tif a

G ee S eg

F i g l d tia Chai Te d

Wei pe etgee p c e et. I p c e et fa ateia, egie pi it t p d ct thataep d cedi cab ade i eta fied a adca ea e degee fda aget the ei et; he ectigeeg, e ch ecea eeg adig p te the e f ch -f ie egie a - gadeeeg, icipa ef e,bi a e eg,etc.;ad he ch igdai ce ppie ad the c eg d, e pefe p d ct thatha e i pepackagig adaec e ie tf ec cig.

CNBM ad cate thep ic f i pe packagig. Wei it p tigb k packagigf ce etp d ct adbae packagi gf ga p d ct. We eekt ai iethe e fec cabepackagi ateia t ed ce ate hiee ig the ait adta p tati afet fthe p d ct.

We ad pt the gee ae de. We ed ce e ce cc pati adi p e aketig e cie c th ghe tabihi g de gi ticpak ad ati apa f pp, aketi gad gi tic. Wep ide ie ta acti e ice f d ideb idig ateia p d ct ad ed cethecab eea edb theb ie tae fcie t ad aepe eth ghe tabihi ga ie aketi gpatf .

S pp tig ld tia Chai E te i

Wep ide -cab tech gie ad f ife-c ce e ice. I thetheeS ed ftechica ta f ati, atc t ad S ed a age et, CNBM p ide id tia e tepie ith theS e - cab e ice fdetecti addiag i, ta f ati ad pg adi g, ite ige t c t te , epe tc tati a S acig a age et. A ch, ec tib te- ha et c ti e ha cigid tia eeg e cie cad e i eta pef ace, a ea achie ig tai abedee p et.

Ha e c-p ce igice etki : We ca tthec-p ce ig f ba ga bage, ha ad id atea d dgeb gii g f pa t tech gica ad a tage. We a c ti ip e c-p ce ig capabiit ad ait i de t b t the ec-de e p et fcitie.

Rapid de e p et fite ige tid t : Wep ide pe ati a age et, e pe tdiag ia dp d cti ie deb ggi g e ice f 14 p d cti ie i 7c tie. O c pe fp d cti e ice ha e pa ded f ce et pat t the categ ie fe titie (cha iig pa tad ga S eie). O e ice dec bi eS ed e ice ith e te ce tai ed diag i. O id tia pe ati data e pe tdiag ice te i Beiji gca p idee pe tdiag ia d data e ice t p d cti ie a e the d.

E p ati fite ige tag ic t e: We ha e ig eda tategicc pe ati agee et ith DALSEM, a e-k gee h e c pa ba ed i the Nethe a d. Ba ed the G p' id tia ad a tage, ta e t ad a tage a de pe tie i theS ed f high-ta itta ce ta-cea ga , eae dedicated t ceati ga e agic t a d ai a dp peig Chia' agic t e t de e pi the di ecti fhighe da d ite ige ce. The ite ige tg ee h e heathed ith e -t pe ta-cea ed ga ha chad a tage a high tp t, g e ice ife, tabeci ate, e eeg c pti ad high ad tii ati ate, a dca f ec ce ai ate ad cab di ide. C pa ed ith t aditi a S ed pa tig the a eaea, it ied 5-6 tie ec p ad c e 95% e i igati ate, the eb aki g agic t a p d cti ee cie tad e i eta fied.

▼ CNBM ache t ad ite ige tag ic t e

. a ig ed pe ati tit f CDM

. tech ica e ice age cie fe eg c e ati ad e i eta p tecti

. b idig ateia id t tai igbae f ati acab aketc pete c c t cti

I 2016, CNBM a ated b the NDRC a tai igba e fthe b idig ateia id t f ati a cab aket capacit de e p et. A ake iki ati a cab e ii tadi g capacit de e p et, thetai ig ad de tati ba e f ati a cab aket capacit de e p et ae pp ed t a a f dati f ffici a chi g the cab e ii tadi g aketth gh t the c t i 2017. CNBM c tat a did ti c tiate a de tabihe eeg c e ati ade i eta fied tech ica e ice patf . It e be e tepie, a g hich CTC take the ead, acti e p actice the ipe etati fthee eg a age et te , cab e ii a age et te , CDM p ject, CCER p ject, cab p d ct ce tificati ad cab i pecti , a e a the de e p et fcab e ii acc tig eth d ad ta dad i the b idig ateia id t , th gh hich it ha acc ated iche pe ie ce. I de t p actica pe f thed tie fat ai igba e fthe b idig ateia id t , b gi igf pat the G p/ tech gica pei it i theid t ad ig the a ge patf p ided b the Nati a Cab Tad ig Capacit De e p et Tai ig Ce te, e ead tai ee t g deepi t the kpace f e be e tepie, gi ethe ade taied de ta dig f cab acc tig, cab i pecti , e a iati ad e ificati f ta e ii p d cti p ject ad cab a et a age et the p t, ad ha eca e f cab , e eg c e ig ad e ii ed ci gacti take b ad a ced e tepie. Thi ake the cab e ii tadi g capacit de e p et f the b idig ateia id t b th i ibea dep d cibe, a dha b ght ab t ta da d t hicht c f .

I

The 450 t/d D etic Ref e C -p ce ig P ject i itiated b Si a Li ag E i eta P tecti C ., Ltd. i e f ide tati p ject ide S ed b MIIT. Backed b the 5,000 t/d ce e tie f the Li ag Tia ha Ce et Pa t, thi p ject ea ie the ha e teat e ta dda -t -da ce ai g fd etic ef ei Li ag b ig the ite ati a ad a ced tech gie fc-p ce igice etki . I 2016, it teated 155,000 t f ba d etic ef e ithateat e tatei ece f 90%. A the p ject ith the a ge tc-p ce ig capacit i Chi a, it additi a ca ied t the e ege c teat e t f etha 5,000 t f -ca iega d ped ef e ithi the a ea.

▲ A ie f the 450 t/d D etic Ref e C -p ce ig P ject i itiated b Si a Li ag E i eta P tecti C ., Ltd.

The 450 t/d D etic Ref e C -p ce ig P ject i itiated b Si a Li ag E i eta P tecti C ., Ltd. i e f ide tati p ject ide S ed b MIIT. Backed b the 5,000 t/d ce e tie f the Li ag Tia ha Ce et Pa t, thi p ject ea ie the ha e teat e ta dda -t -da ce ai g fd etic ef ei Li ag b ig the ite ati a ad a ced tech gie fc-p ce igice etki . I 2016, it teated 155,000 t f ba d etic ef e ithateat e tatei ece f 90%. A the p ject ith the a ge tc-p ce ig capacit i Chi a, it additi a ca ied t the e ege c teat e t f etha 5,000 t f -ca iega d ped ef e ithi the a ea.

The d ct fd etic ef e tigae eda b tit tie ateia f f ce e tp d cti . I thi a, d etic ef e iecai eda dce e t ip d cedi a eeg aig a.

The kh p deig i afea d aita . A d the kh p, a i ati g gee beti p ided t ed ce iee itted t the dig.

The tad a ced e age teat e t te ha bee it d ced t teache pt the Ca 1A di chage ta dad.

The de fp eteat e t itha t atic achi e iad pted t e ethat c picated d etic ef ei e ectie a d eiab tedad tiied, a de abec ti at aticp d cti a d eiabe pe ati.

The tad a ced de d iati te ha bee it d ced. De d iati p ceed at egati epe ei ac ed kh pa dp d ce itte d, the eb pe e tiga i ece the dig e i et.

Di ee tteat e t de a ead pted f di ee t c p et f d etic ef e de the pi cipe f eithe di pti gce et p d cti c t detei ati gcike ait. Thi pee t ec da p ti th gh t the p ce.

03

We ake e e e t t afeg a d the ight f e p ee , e pect thei di e e ce a d ake the c pa a e iab e pa t e a d a happ a d c f tab e h ef e p ee . We t j i t b i d a b ighte a d e tai ab e f t e ith a e p ee , a d de i e happi e t ciet .

- Safet
- Hea th
- Dig it
- Happi e

At the e d f 2016, the t ta be f e p ee eached

234,511

I 2016, the be f e be c pa ie ca i g t e p ee ati facti e t d at

602

I 2016, the e p ee t e ate a

12.3 %

Safet

We ha e e tab i hed a d e tica t p-a ki g a age e t te f afe p d cti ith the afe p d cti acc tabi it te a the c e, the ta da di ati f afe p d cti a d kp ace afet tech ica eg ati a the e pha e , the t be h ti g a d t eat e t f p te tia accide t a the eth d , the i f ati ati f afet a age e t a the t a d the de e p e t f afet c t e a the g a a tee, the eb e i g afe p d cti a d the cc pati a hea th f the ta .

Ma age e t & C t S te

We ha e e tab i hed a ga i ati a te f afe p d cti . The Pa t a d ad i i t ati head f the e te p i e a e the p i a pe e p ib e f afet i the kp ace, a d the take cha ge f afe p d cti atte . A ke p d cti afet e te p i e ithi the G pe p f -ti e p d cti afet a age e t pe e . We e tab i h th cha e f feedback a d e c age a ta t pa ticipate i afet a age e t.

We ha e e tab i hed a afet p d cti a age e t te c e i g pe a tie f afet i ati . We ha e a i t d ced pecia eg ati a d kg ide i e f e ea p ject , -c a i e a d .

We p ace e pha i fi e t e ti afet , c ti i p e a d ai tai afet e ip e t a d faci itie , i pe e t tech ica i ati f the p p e f e e tia afet , ga i e t ai i g i afet p ced e , a d p p a i e afet c t e.

P te tia i k ide ti cati

We i te if i pecti f hidde da ge . We take the de e p e t f the 'capacit t ide tif a d p e e t hidde ha a d ' a a i p ta t pa t f eff t t i p e the ba ic a age e t e e f e te p i e afet a d p tec ed- pc t , c p ed f 'ba ic capacit b idi g - a e e t a d c t f hidde da ge - ka d pe f a ce e a d a e e t - the abi it t e ha ce afe pe ati ', the eb achie i g the c ti i p e e t f the PDCA. We e p ea de tabi ha i -i - e c ee i g a d g e i g te f accide t p te tia , the i ite bei g 'f c i g the f fi e t f p t e p ibi itie , i g i ted i e tigati ta da d a the t , taki g c ed- p e f- e a i ati a d e f- ep ti g f hidde ha a d a the ea , taki g tea c t cti a d a - taff pa ticipati a the ba i , taki g the e a d a d pe a t i ce ti e te a the g a a tee, a d taki g i f ati a age e t ea a the pp t.

We c ti e t i p e e e ge c a age e t te . I thi te hich c e a e e f the CNBM, the G p' e e ge c a age e t tea take ge e a cha ge hi e the e e ge c a age e t tea f the e be c pa ie a e e p ib e f pecific ea e . A c p ehe i e e e ge c e p e pa i e tab i hed a d pp e e ted b pecia e e ge c e p e pa a d - ite e p e che e . We ga i e the e be c pa ie t eg a check the e e e f e e ge c pp ie , c d ct e e ge c e p e d i a d gi e - ite i t cti i e e ge c e p e k.

I f ati ati tech g i app ied f the p p e f dai afe p d cti a age e t. A afet p d cti p edicti a d a e t te i depe de t de e ped b CNBM i a ti i ed. We ge e ate th a i g i f ati acc di g t the data the ep ti g a d ectificati f hidde da ge , a d p pt p b i h k afet a i g i f ati t e i de te p i e eade a d a taff t take ta geted p eca ti f the p p e f ide tif i g, ha d i g a d e i g hidde da ge a a p ib e, the eb i i i i g the p babi it f accide t a d thei c e e ce .

p d cti afet accide t cc ed i 2016

Sta da d Safet

A a ati a pi te te p i e f ta da d afe p d cti , e acti e p te the k f eeti g the afet ta da d f ce e t e te p i e , i p i g the afet a age e t te , i c ea i g the afet a age e t e e a d b ti g afet a age e t pe f a ce. B the e d f 2016, a the a fact i g e te p i e a iated t the G p pa ed thei k afet ta da di ati e ie . I pa tic a , 131 f the 280 ce e t c i ke a fact e (45%) pa ed the ati a C a 1 e ie , ep e e ti g a 60% ha e f the t ta be f C a 1 ta da di ed e te p i e i the b idi g ate ia i d t .

We attach g eat i p ta ce t b idi g p afet a age e t tea . We ha e c ti f te ed the e e f e p ibi it a d a e e f afet p ced e i the kp ace, a d i p ed the p fe i a a it f afet a age e t pe e . We t ict f the CNBM Safet T ai i g R e a d g a a tee the p p a i ati f afet k edge, e ec ti f afet p ced e , i pe e tati f c ti ge c pa , k edge f cc pati a ha a d a d the e f-p tecti abi itie f the ta th gh t ai i g a d a e e t.

We acti e ga i e ch afet p ti acti itie a 'Safe P d cti M th' a d 'Safe P d cti Yea ', p epa e a d i e afet c t e a a a d i c p ate the idea f 'pe p e t a d ife f e t' i t c p ate c t e. The G i i S th Ce e t C pa Li ited a ated a a 'Nati a M de E te p i e f Safet C t e De e p e t 2016'. Chi a U ited Ce e t Q f C ., Ltd., Chi a U ited Ce e t Za h a g C ., Ltd. a d Ha g h Sha a S th Ce e t C ., Ltd. a pa ed the e ie f ide ti cati a 'Nati a M de E te p i e f Safet C t e De e p e t'.

I de t b i d a afet c t e ec te , e ha e afet k edge a d e pe ie ce ith i te e ted pa tie (ch a pp ie , c t e a d c itie) a d p p a i e afet c cept .

O Dece be 23[d], 2016, the b idi g f Chi a U ited Ce e t Na ji g C ., Ltd. i t a k afet ta da di ati de e te p i e ai ed th gh the accepta ce check b the State Ad i i t ati f W k Safet , aki g the c pa e f the t batch f k afet ta da di ati de e te p i e i Chi a. D i g the 960-da t ta i e e ti the i i , the c pa ab t acted a d a i ed 6 i p e e t p i itie a d a e c cept f afet a age e t ('223355'), the eb de e pi g c p ate afet c t e ith it t e. The 6 i p e e t p i itie a e a f : t b i g a p t t the ta da d b f i g the e p ibi itie f afe pe ati p t b p t a d e e b e e; ea i e the c pete c e age f afet ed cati a d t ai i g b e ib i g a i edia; ea i e i a afet a age e t b ati e i p i g kp ace ta da di ati ; e pa d the c cept f afet a age e t th gh i te ati a be ch a ki g; ake i ati i the afet a age e t f t ci g it b c t i g the 5' t ategic pa e '; pe fect the a age e t te a d pe ati echa i f hidde da ge ide ti cati b ki f pe ati g the p edicti a d a i g te p atf ; a d e the ' t ategic pa e ' f a d a d the e pha i d b t a f i g afet a age e t c cept .

危 险
有 限 空 间
未 经 许 可
禁 止 进 入

Dig it

I 2016, the be ffe aee p ee eached

I 2016, the ati f the a eage aa f ae e p ee t that f fe aee p ee a

I 2016, the t ta a t fe eati f eti e k ab t RMB, ii

E ait

We e pect a d pp t the i te ati a c ea t h a ight a d ab ta da d, t ict f bid f ced ab a d di ci i ati , g a a tee a dece t ki g e i et f e p ee a d t ict p hibit a d eject e p ig chid ab e i a f .

We adhe et e a e p e t a d teate p ee f di e e t ati aitie, eth icitie, ge de , age, eigi a d c t a backg d ith e pect a d e ait. E p ee a e ec ited a d e p edi a pe, fai a di pa tia a e.

I ie ith the pi cipe fe a pa f e a k, et eat pa t-ti e e p ee, te p a ta a d the ke f bc tact ith e ait. Thei egiti ate ight a di te et a e e p tected.

We e pect the pi ac f e p ee a dha ee tabi hed api ac age et te c eig ch a age et i k a ec it et, a e eta d heath ec d.

Lega C p ia ce

I tict c p ia ce ith the *Labor Contract Law of the People's Republic of China* a d ee a ta a d eg ati , eig ab c tact ith e p ee a d ta da di e ab c tact a age et.

We pa e p ee ba icpe i i a ce, ba ic edica i a ce, e p e ti a ce, kij i a ce, ate it i a ce a d the cia i a ce i acc da ce ith the a , a de tabi h ppe e ta edica i a ce a d c p ate pe i che e, a da pei dic ph ica e a i ati te . We a e c age e be c pa ie t p cha ec pehe ie accide ti a cea d the ppe e ta i a ce f thei e p ee i ie ith thei act a c diti .

We ad pt a paid ea e te acc dig t ch eated eg ati a *Regulations on Paid Leave of Employees*, a d pa e eati f eti e k.

E p ee f BNBM HOME (a pe a ketchai b itb CNBM i Pap a Ne G i ea)

I 2016, c e age ate fc ecti eba gai g a d c tact a app i ate %

I 2016, % f the p p a f the W ke ' C ge ee ha ded a d etted

De c ac

We keep ide i g tade i et k a de tabi hi ga di p ig tade i ga iati a d k ga iati ata e e; ede e p the e be f the e ga iati a d ake the tade i eatt acti ea dc he i e.

We pp t e p ee i e pe i g thei ati a appea a d afeg a di g thei ight i cha pect a ab ig, ab e eati , kti e, eta d acati , k afet a dhea th, cia i a cea d efa e, pecia p tecti f fe aee p ee , etc., th gh c ecti e ba gai i g, ig i gc ecti ec t act a d the f .

Wei pe e t the W ke 'C ge te , i pe e t eg ati the dic e ffact aai , a de e e p ee ' ight ega di g pa ticipati , if ati a d pe ii . We ha e c p ate pe ati if ati ith e p ee th gh ch cha e a the dic eb a d ffact aai , e p ee dic i eeti g, a age ' aib e a dc pa eb ite .

[illegible]

F eig ta ki g f the RAPID P ject i Maa ia

I Nige ia, ac t th a d f ie a a, CBMI' S k t p ject g pi i pe e tig the 'Be ta d R ad' i itiati e. B i, a g te i dige t Y ba, ha ked f 7-8 ea i the p ject g pt a age the ppie a d ate ia e iti a d e ated a chi e f the p ject. Whe he j ied the EWK P ject i itiated b CBMI i Nige ia i 2009, hi fa i ap et-ticke a d had a chid t f te, hich a a e di c t tati t tai. Th gh ha d k, B iha g ad a ice a ed hi fa i 'ic e. D i ghi 8 ea f k, the e be f the p ject g p he ped hi i hi ife, k a d diet, a d he a p ted f ate p a ' ate ia a 't a t ekeepe cia app ited b the p ject depa t e t. I 2016, B if ed the p ject g pt S k t i the Nige ia. I de t he pthi e p ee h had e e efth e t adapt t hi e iige i e t, the p ject g pp ided B i ith a e ide ce, paid hi a -ca kpe i a dga e hi the be t fa a paid, hich g eat i p ed hi i gc diti . The Nige ia g te i deep ted i CNBM' 'Be t a d R ad' hippi g ie. A B i aid, he fee e ck t ki CBMI, e j ki g ith hi c eag e a d ie the a hic e t b the .

Se ef Achie e et

We tabi ha cie ce eati te adi ce tie echai , ad etac petiti e aa ta dad. We a ai tai t ca ee path f the p ti fe p ee, eadi gt age et p iti adtech ica p iti epecti e, th gh hich et t eet thede ep et eed fdi ee tkid ftae t b a igtae t f di ee t ed ad ith di ee t peciatie t gie f pat thei epecti ee pe tie.

Wei pe ette echai fitag p

Se ef Ide tit

We pae e ti thec t cti f ea igg p. We ai t bida ti- cha e, ti-f , ti-e ead di ee tiatede p eec ti ati ad tai igpatf . F igthetai ig app ach f'ba ed ite tai ig, ad ppe etedb ete tai ig, eha eed cati e ce t bida c pehe ietai ig te f the G p. We pp ttheat tai ig fe p ee ade c agethe i acti e ea ig. We a pp ta dg aa teethe e-ed cati , e-tai iga de-ea ig f e p ee i theapect f kigh , tai igi et etade ad echai .

We attachg eati p ta cet the ait tai ig f e p ee. Aidef ec agig cati aed cati ad tai ig, ec eatea i e def the ait p ti fe tepietae t ade tabiha i ec p atec t e te t i p ethee ec tieabiit, p fe i a ait adc t aide tit f e p ee.

c icati adi-p iti ea igf e p ee, theeb e ecti e a cati g theh a e ce ithi theG p adp idi gab adpatf f e p ee t de e pthei ca ee .

Wee c agee tepie t ca t c p atepe i pa ade it die it acc di gt thei act a it ati . We pae e t t ti atee p ee ad etai taet, hiei p igthei e e f achie e etb a igthe t fee the de e p eta dg th f e tepie.

Se ef Be gi g

We ca ef the hea tha die f fe aee p ee, adteat the e a ith thei aec tepa ti aa , a age et p iti , p fe i a taiig ad cati ade e p et pp t itie. We p cha e ate it i a cef the adp idea te ata ea i ati ea e, ate it ea e, bea tfeedi g ea ead bi tha a ce. We a ec ce ed ab t the ie ad eta eed f g e p ee. We b i g gpe pet gethe th gh the C it Y th Leag e, p idi g the ith a patf ich t de tate thei ta e t ade cha ge idea. We ca ef the ka die f e pat iate, e peciath e h ae g tati ed ab ad i c itie f i it eth icg p, h d pecia afte- kacti itie a dp ide eta heath c ei gt eie ethei pe e. We a i p etheh eeae te t e e thei ie a dp te happi e. We pect di abede p ee ad p idethe ith ac eie t kig e i eta dthe ece a a e itie.

Wei p ethe te fe p ee pp t a deief, a dhepe p ee t ec e thei di c tie th gh the 'M t a F d f C bati g Sei l e ', 'G de- at Gat-i Aid', 'S hi e E p et P ga 'a d .We ca tp actica ea e, edi c tp be add g ddeed f e p ee i di c t, ad ake cha cti eg a, i tit ti ai ed a d ta da di ed. We tick t thec t f iiti g eed g pi ite add ig t aj fe tia , ai ic dig chide a d id ededepe pe, fa iie f at a dp eti ede p ee.

Wee c age e be c pa ie t te gthe thec t cti fg ai , ec eati , ib aie a dp ch gica c ei g .We a ga ie

| 2016, RMB. ii a pe tt hepa d e ad peciag p f e p ee

Fa Qii a echa ica e gi ee f Beiji g Ti phl te ati a E gi ee i g C , Ltd. At CCTV' Chi ee P et C petiti , ith e cepti ap et k edge a d ite a acc pih e t, hee te ed the af b beati g tipec petit . She ce c ect a eed 9c ec tie eti , bi gi gthe h ed a d e ecti gthe te ftae ted a. Fa ' tta di g pef a ce a paiedb a thee pet, p fe a dpeete , h c e ded he b aig, Thi fe ae echa ica e gi ee e gagedi thege ea c tacti g fi te ati ace etp ject de the 'Beta dR ad'i itiati eha ad iabe ite a attai e ta da ie c pa abe

t he ae pee . G ided b the 'Beta d R ad'i itiati ea df i igi CNBM' f t tep i de e pi gthei te ati a egi ee i gb ie , Fa beca ei ed i thep ti , de ig add ee p et f tipe e ea ce e tie ade - tpepefab icated b idi g, a dea ied he ki gdea . M etha apee i id t, hei ac e be a gthe e citie f CNBM. U de taki g thei ep ibit f thei fa ie, theG p adthec t, hiea keepi gthei dea i id, CNBM' citie ae iti gthe tbea tif ad ag ce tchapte i the geatpict e f the 'Chi ee Dea '.

F Zha ia, a di a 'CNBM citie ', h d thep t fp d cti a age et di i di ect f the Ga Qi ia ha Ce et G p' Pi gha C ecia C cete C pa . I Ma 2016, thec pa a e ied t pp c cete p d ct highe tha i te ati a ai a ta dad i de t g aa tee the ait fa ai a bidge ad c et ecti b itb Chi a Rai a N . 5 E gi ee i g G p C ., Ltd. Faced ith ice dib de a di ge ie e t, F ed the e be f the p d cti a age et di i t ecti dige ate ia, ca tpe- i i gi theda ti ea d t d i tit ti ad pe cati at ight. Had kpa . At at, thec t cti pat ' e ie et ee et ith high ait ithi the pe ed pei d, e abi g the p ject t p ceed th . B ite f the e itti g e t ade b a 'CNBM citie ', the c pa ha tp tad d etha 240,000 ^{3} fc cete ith ta ait accide t p d cti pet.

04

D i g p d cti a d pe ati , e eek t achie e t a de e p e t ith the egi i hich e pe ate. O acc p i h e t c d t be achie ed ith t the pp t f the takeh de a d pe p e f a a k f ife, a d e gi e back t ciet th gh i e cia e fa e p ject . O e p ee a e de ighted t ake c t ib ti a d dedicate the e e t ta acti itie , e e ci i g thei e p ibi itie a c p ate citi e ith thei acti .

- A - i Ha
- I te ati a C pe ati
- S hi e We fa e
- P e t A e iati

I 2016, the be f e e p ee hit

22,000

I 2016, the a t f ta e paid t ca g e e t eached RMB

9.4 bi i

I 2016, CNBM Head a te t k p p t i

57 ga i ati

I 2016, the d ati a t eached RMB

24.0 i i

Night ie f CMBI p ject i B ga ia

A - i Ha

We ha e tabi hed a e ea pe ati te ith the cha acte i tic f CNBM ad i teg ated the c cept f ep ibit ad hai g it b ie acti itie. Pa tic a i the pactice f e ea b ie, CNBM abide b ca a , epect ca ct e, ake g d e f ca e ce ad e e egi ac t cti, afeg ad the ight ad i te et f ha eh de ad the afet fe p ee th gh it e ectie ik a age et ad c t te, p p a ie the c cept f ep ibit th gh' hi ep ce e et' ad hai g c pe ati , ad take e i e ta p tecti ad the ait f ife i t c ide ati i ac pehe ie a e ba ed egi a ci ii te et. We ha ehed a e cha ge ith Sai t-G bai , Racha , CRH, O e C ig, Va ea d the Mit bi hi C p ati . O ep ibe ad tai ab eb ie phi ph ake high ec g ie da d f acc edited i ca a ea a ee gage i 'G i g O t'.

> CNBM has been in rapid development in recent years and top-ranking in multiple international business areas. It is hoped that the two parties will continuously enhance their the continuous and healthy development of the industry.
>
> ——Michael Thaman, CEO of Owens Corning

亲 诚 惠 容

Wei it g d eighb ad fied eati ad ta aid: e tict ca t ciada e i eta ipacta e et f ie t e tp ject , ad th gh eek the pi i fi te e ted pa tie ith ega d t ec ica d e i eta be t a t ii ie the egati ee ect f pe ati the ca e i e tad ciet . We a acti e take pa ti ca p bic be tp ga ad c it acti itie i de t ice ae att acti e e , e ti a appea a di ece.

We eat c pe ati e c tie ice e ad tief e fied a dpate : e tict be e ite ati ac eti a ea ca a ad eg ati , pa ta e i acc da ce ith the a , pa atte ti t e i eta p tecti a de pect ca eigi beief, c t adhabit . Wea tick t pbic biddi ga d' hie p c e e t'; thati, e ce e t bc tact ae ected th gh the c pehe ie a e et f thei b ie te gth, c edit ta di ga d age e tee. I c tact, eha e ce a p ii ight, i te et, afet ad cc pati a heath p tecti appicabe t the e p ee f bc tact . I the p ce f c pe ati , bc tact ae pe ied a de ided t i pe et ch p ii . We ha e pect, t tad pp t f di g c tie b ite f ice ede ti .

We c pe ate acc di g t the pi cipe f ecip cit ad ta be t: e tiet bidc petiti e a e chai b ig ca pei e ce i c bi ati ith the G p' ad a tage i tech g ad age et, the eb p idi g a e-added pace f ca a ate ia ppie ad p d ct ee , he pi g the ca ec t p pe adge eati g ta e. Wea bid ad a ced ce e tad ga ief de e pi g c tie ad egi t eet ca c t cti de ad, a dad cate the c cept f gee c pti ad a chitect a e eg c e ati b p tig e-t pe bidi g ate ia ad h ig. I additi , e pti ie ca e ce cic ati a da cati b bidi g age gi tic pak a dae et k, f the p p e f g igt gethe ith the egi i hich the e be e tepie ae cated.

We ad cate the c cept fic ie e-ba ed c pe ati : e pect ca eigi beief, c t adhabit, a d e ec tea ta cai ati p ic. Spe ca , j b pp t itie a e p ided ca , a d ca e p ee a etai ed t pe ad a d a ced tech gie ad age e te pe ie ce, a di p the ait f ca ta e t. Th gh p pe pe ati , e eha ce the age et f ea e te pie a dp ject. F the e, eha e e tabi hed ac pehe ie ik age et te c eig the ik i ed i ea pe ati (i.e. p itica ik, c t ik, a cia ik, ega ik, biddi ga dte dei g ik, ta ik, ab e ice ika did t ik) a d de e ped a ika a i & aig te ad a e ege c ep e echa i f the p p e fp tecti g the afet f the ta a d a et. I the ft e, e ip te egi a c pe ati itha b ade ida dhighe e th ia at ha e pp t itie a de j tap pe it.

I 2016, the hi g ate f ca e p ee eached - /%

I 2016, the hi g ate f ca e i age et eached %

On March 23rd, 2016, at the ep e e tati e f the b idig ate ia id t, CNBM t k pati the La ca g-Mek g C pe ati E hibiti hich a j it p ed b the Mi it f Fei g Ai , Nati a De e pe t a d Ref C i i a d Chi a C cif the P ti f Ite ati a Tade. The G pe hibited chi te ati a ad a ced p d ct a d tech gie a ta-thi e ect icga , cab be , ga be a d efact ate ia .

State C ci P e ie Li Ke ia g i ited the e hibiti . With ch atte ti paid t the 0.2 ta-thi e ect icga ige i de e ped b CNBM, Lia eed e ti ab t the pe f ace, appicati , tech g a d R&D f ta-thi e ect icga . A S g Zhipi g aid, attachi g i p ta ce t the p tecti f IPR, CNBM tie t catch p ith a d pa the d' ad a ced e e b ad pti g iteg ated a di ati de e pe t de , etti ga e iet ei the de e pe thit f Chi a' ga id t ada chi g the id tiai ed p d cti f ta-thi e ect icga i Be gb. Li high pai d the G p' ite ati a ad a ced cab be tech gie , a de pe ie ced the pe f a ce a d age f the cab be bic cei pe at the e e. He a high pai d the e t CNBM ade d ig the ta f ati f the id t, a de pe ed hi pe that the G p ie ha ce it tech gica i ati a did tia pg adig b aki g f e fit id tia ad a tage , deepe i g it c pe ati ith La ca g-Mek g c tie a d pai g a g idig ei p ti g thei pe etati f the 'Be ta d R ad' i itiati e a di te ati a capacit c pe ati .

> I don't exactly know what kind of people can be called a craftsman. I just carefully weld every piece of plate. I'll be very glad if the bushings others make can be used for only a few months, while the bushings I make can be used for years.
>
> ——Shen Jianying

She Jia g ha bee h ed a 'Ma 1st Fe ae Pace ette f Tg ia g 2013-2016'. She i ft p ke a dpite t k itha a kb be di ghe head. She ike ed i gpiece f pati -h di a t gethe itha ed i gg . She i the fe ae ede a ig edt Eg pt' pati p ce i g kh pb the J hi G p. Th gh de taki g the ta k f pa i g e pe ie ce, he ha tai ed 2 appe tice i the tech g f ag ac- ed i g.

S hi e We fa e

We be ie e that a e p ibe cia e fa e te i the ba i f p ti g cia j tice a df ce t a e te p ie t f thei cia e p ibi it, a d ei p ta t a i p ta t ea ef p tecti g the i te e t fi e t a d the afet f tate- ed a et. Acc di g t the p i cipe f bei g acc tab ef be cia ie a d ha eh de, e ca ef a e i itati f cia e fa e pp t p i t i pe e ti g a d ati, a d ca ti e ect p ject t pp ti de t g a a tee p bic ight a di te e t b e a ati g the i p ta ce, e iabi it a d p bic be t f p ject, a e a a b i e pe f a ce.

I 2016, the t ta e i e ta p tecti a d p bic e fa e d ati a t eached RMB

I 2016, the be f f eig d ati p ject eached

I 2016, t ta f eig d ati eached RMB i i

D ati Sta da di ati

We e tab i he e ge c e p e echa i i de t p ide apid di a te e ief, ci i defe e a d the p bic afet e ice.

We p ide pp t f di a te affected a ea, p e t - ticke a ea, cie ce, ed cati, c t e, a dh gie eca e, e fa ep ject a de i e ta p tecti ca e i ki da d capita, the eb pp ti g the de e p e t f ciet.

We ta da di e d ati a age e t eg ati. We e tab i ha di p e the d ati ga i ati a d a age e t te, a d t ict i pe e t the a b dget a d p ced ef p ce e a i ati a d app a; e ha e e tab i he d a echa i f pe i dica a a i g a d ep ti g d ati p ject p g e, e a ati g the effect a d c d cti g et i it he the p ject e d, a d ejecti g app ti ed, d p icated, i effecti e p p bic e fa e p ject, a e a th e that a e be d the e te p i e' capacit, a t f c the d ati effect a d g a a tee the i te e t fi e t.

Ed cati a d edica ca e a e the ba i ed t c e a ciated ith i p i g pe pe i e ih d. Si a Ce e t' Za bia B idi g Mate ia I d t ia Pa k b i ta ch -h pita c pe f Chi e a f L aka, a d the i age g ad a ed the c pe 'Na itete'. Afte 5 th f pa i g a d c t cti, the c pe a de i e ed. It faci itie e e de ig ed a d b i ti t ict acc da ce ith Za bia' ati a ta da d. C t cted ith a t ta i e t e t f USD 1.5 i i, the c pe c it f 5 ca, a 711 2 h pita a d the faci itie (ce, teache' d it, d ct 'd it, a p e ge e ati a d ighti g te, ate pp a d d ai age te, etc.). The ch i capab e fad itti g ch age chi d e f the di g i age a d c itie, a d pp i g ed cati a e ice f the 1 t g ade t the 6th g ade. The h pita i pp high- a it edica e ice t ca e ide t a d be ta p p ati a a ge a 15,000. The c pe gi e a i pet t the g-te de e p e t f the di g c itie.

The Za bia B idi g Mate ia I d t ia Pa k i a i p ta t acti take b Si a Ce e t i e p et the g e e t' ca f 'G i g O t' de the 'Be t a d R ad' i itiati e. It ha t ade ig ca t c t ib ti t the ec ic de e p e t f Za bia, b t a itte a e chapte i the Si -Za bia e ati hip.

V ta Acti itie

We ad cate a ha i cia at phe e a d e c age e p ee t p ide ta e ice a d pa ticipate i cia e fa e acti itie. We p ide g a a tee a d pp t f ta acti itie i ch a pect a ga i ati a t ct e, k echa i, ched i g, a cia pp t, c icati a d iai. U de the ta e ice te ith the C it Y th Leag e at it c e, c pa ie at di e e t e e ha e e tab i hed e e a tee acti it g p hich ca ta a iet f ta acti itie, de t ati g the e th ia f the pa ticipa t a d p eadi g happi e.

Beiji g Xi g hi E pe i e ta P i a Sch (G gc Depa t e t) i a p i a ch f the chi d e f ig a t ke. L cated ea Ji a O e pa the We t 5th Ri g, Haidia Di t ict, Beiji g, it ha e tha 550 e ed t de t. The i f a t ct e f the ch a -d. Spec ca, t f the e te i a f the ca a d pa g d had t et bee pai ted, a d e a e e pee i g bad. T thi e d, BNBM A i ta t Ge e a Ma age Che Ha a, h a p eg a t at the ti e, ed tee f BNBM' 'Y th BNBM' tee e ice c p a d T i gh a U i e it' White a he St di t ake the ca p c f a d f f a th b pai ti g the a ith BNBM' ta p d ct, 'D ag Pai t'.

'Y th BNBM - C i e O H e a d ith Pai t' i a p bic be t acti it pe i te t de e ped b BNBM' 'Y th BNBM' tee e ice c p i c ab ati ith White a he St di. The acti it ha bee de e ped e e a ti e f H g i g a P i a Sch (Sh i), S i age (Beiji g), Tai a T (Ch g i g), H ai Y cai Sch, Zh g i gji g P i a Sch (Hebei' Li g h C t) a d Mi g a Sch (Beiji g' Da i g Di t ict). It i p p a ith a teache a d t de t, a d p ai ed b a cia ect.

▼ V tee, Che Ha a

I 2016, the t ta ta acti it d ati a t eached ab t RMB i i

I 2016, h f ta e ice e e p ided b e p ee

05

We h de the ep ibiit f aki gi ati i theid t b eeagi g t g eeach capabiit .Wea p te the ta f ati ad pg adi g ftheid t ith f eight, ii a dad a cedtech g .Wep tea dhae tech ica if ati ,a d eaec itted t bidi g ee i e ta fie d ,c f tabea dite ige t i i ge i et,a dceati ga tai abef t e.

Research Strength

In addition to the aforementioned additional efforts in technological innovation, energy conservation and environmental protection, the Company has also dedicated to the technological innovation, research and development of new materials, and the protection of intellectual property rights. We attach great importance to the management of R&D projects, and have established a sound R&D management system and a project management system covering the entire process from project initiation to project closing, thereby effectively improving the efficiency of R&D projects.

Establishing Platforms

We have established a integrated scientific research institution platform, a production-oriented technology research platform, a cooperative research platform with universities and institutions, and a post-doctoral research workstation platform. We have established a integrated scientific research platform with the integrated fiber material as the core, and a production-oriented technology research platform with the graphite material as the core.

Attracting Talent

We provide competitive salaries and benefits, and a platform for employees to realize their self-worth. We pay attention to the cultivation of academic leaders, technical backbones and high-caliber talents, and provide employees with opportunities to participate in academic exchanges and training. We attach importance to the protection of intellectual property rights, and have established a sound incentive mechanism for employees' inventions and creations.

Equipment

We pay close attention to the development of technology and equipment. We specifically invest in the R&D of cutting-edge technologies, core materials and key technologies, and upgrade products.

	China Building Materials Academy	Tianjin Cement Industry Design & Research Institute Co., Ltd.
	Hefei Cement Research & Design Institute	Sinoma International Engineering Co., Ltd. (Nanjing Cement Institute)
	Beijing Design & Research Institute for Wood Industry	Chengdu Design & Research Institute for Building Materials Industry Co., Ltd.
	China New Building Materials Design & Research Institute	Nanjing Fiberglass Research & Design Institute Co., Ltd.
	Habin FRP Institute	Beijing Composite Materials Co., Ltd.
	Qinhuangdao Glass Industry Research and Design Institute	Sinoma Engineering and Research Institute for Non-metallic Mineral Industry Co., Ltd.
	Xi'an Research & Design Institute of Wall & Roof Materials	Shandong Industrial Ceramic Research & Design Institute Co., Ltd.
	Xiamen Research & Design Institute of Ceramic Industry	Beijing Sinoma Synthetic Crystals Co., Ltd.
	Hangzhou Mechanical and Electrical Design and Research Institute of Light Industry	Sinoma Cement & Cement Product Institute Co., Ltd.
	Hangzhou Research Institute of Light Industry	Xiamen Non-metallic Mineral Research & Design Institute Co., Ltd.
	Light Industry Xi'an Mechanical Design and Research Institute	Wuhan Building Materials Industry Design & Research Institute Co., Ltd.
	Research Institute of Automation of Light Industry	Sinoma Science & Technology Design & Research Co., Ltd.
	Shanghai Water Research Institute	Sinoma Geological Engineering Exploration Academy Limited
	State Key Laboratory of Green Building Materials	National Key Laboratory of Special Fiber Composite
	National Key Laboratory of New Refractory Technology	
	State Key Laboratory of Pulp and Paper Engineering	
	National Geo-Deep Processing Engineering Technology Research Center	National Non-metallic Mineral Deep Processing Engineering Technology Research Center
	National Rare Material Composite Engineering Technology Research Center	National Industrial Ceramic Engineering Technology Research Center
	National Laser Guided Engineering Research Center for Industrial Energy-saving Technology	National Fiber Reinforced Modified Composite Engineering Technology Research Center
	National Fiber Engineering and Product Engineering Research Center	National Research Center for Coal Utilization & Environmental Engineering Technology Research Center
	Technology Center of China National Building Material Group Co., Ltd.	Technology Center of Shanghai Jiahua Enterprise (Group) Co., Ltd.
	Technology Center of Beijing New Building Material (Group) Co., Ltd. (Sub-center)	Technology Center of Sinoma Technology & Equipment Group Co., Ltd.
	Technology Center of China Lanzhou Fiberglass Group Co., Ltd. (Sub-center)	Technology Center of Taihang Glass Fiber Co., Ltd.
	Technology Center of Liaoning Zhongjing Composite Group Co., Ltd. (Sub-center)	Technology Center of Taihang Glass Fiber Zhenglong Co., Ltd. (Sub-center)
	Technology Center of Hefei Sanye Technology Group Co., Ltd. (Sub-center)	Technology Center of Xijiang Glass Pipeline Co., Ltd.
	Technology Center of Jinghua Group Co., Ltd. (Sub-center)	Technology Center of Sinoma Science & Technology Co., Ltd.
	Technology Center of Hefei Cement Research & Design Institute (Sub-center)	Technology Center of Sinoma Energy Conservation Limited
	Technology Center of Hefei Zhongcheng Lightweight Materials Machine Co., Ltd. (Sub-center)	Technology Center of Xijiang Tianhe Cement Industrial-Stock Cement Company Limited
	Academician Workstation of China Building Materials Academy	Academician Workstation of Zhenghe Ceramic Industrial Refractory Materials
	Academician Workstation of Beijing Design & Research Institute for Wood Industry Co., Ltd.	Academician Workstation of Enterprise Jiangsu Province
	Post-doctoral Scientific Workstation of China Building Materials Academy	Post-doctoral Scientific Workstation of Beijing Design & Research Institute for Wood Industry Co., Ltd.

Sec it Mecha i

I 2016, ehedat ta f /, /pate t

I 2016, egai ed , cie ca d tech gica a ad at p icia iiteia ee ab e

IP tecti

F c ig cha pect a thep tecti f ite ect ap pet a dthe age et f cie tific eeachf d, eha ec bi ed thede ep et fite ac t te ith ik age ete ie ett f

I ce tie

Weha egad a etabihedataet de ep et echai t p tethe de ep et ftaet,a da a e et a de ad echai acc dig t thei pe f a cea dc tib ti .I ide theG p, ep idethe'Scie tifica d Tech gica P ge A ad,'Tech ica

C ab ati el ati

Weattachg eati p ta cet c pe ati ithfa ie itie a dp fe i a i tit ti ij it tackigke p be ad e gagi gi tech ica c pe ati ,acade ic e cha ge,tae tc ti ati ,thei c bati a dta f ati fachie e et,theeb etabihiga i ati aia ce ith ai e e .Wee p ethee tabih et fa pe cie tific eeach te .Ai igat

a cie tific eeach age et te hichc f t ati a cie tific eeach age ete ie et a dha the feat e fthebidig ateia id t, p idi gtheefficie tp ge f cie tific eeach itha ec it echa i .

I p e et A ad'a d'G p Tech ica Ce te P ject'b tthee th ia f eeache f i ati .Weha ee tabihed theY th Scie ce F dati a d ga ied th cie tific eeachc petiti t p tethefa tg th f gbackb e f cie tific eeacha di ject ig it the cie tific eeachtea fthe G p.

We attachg eati p ta cet c pe ati ithfa ie itie a dp fe i a i tit ti ij it tackigke p be ad e gagi gi tech ica c pe ati ,acade ic e cha ge,tae tc ti ati ,thei c bati a dta f ati fachie e et,theeb etabihiga i ati aia ce ith ai e e .Wee p ethee tabih et fa pe cie tific eeach te .Ai igat

e eachh tp ta dcha e ge hichatt act theatte ti fthec t a dtheid t, e biie cia tech gica e ce t tackediffic tp be .Wep te the c ec bi ati fp d cti , ea ig a de each,e tabih e p d cti -t d- eeach eati hip the bai fthe t a be efit a dc pe ati fe tepie,a d bid pa tech ica i ati c pe ati te e te at theG p.

O the ig f Ja a 9th, 2017, the Pat Ce ta C itte ea d State C ci ga d hedthe Nati a Scie cea d Tech g A ad C fe ce. Pa t a d tate eade Xi Ji pi g, Li Ke ia g, Li Y ha a d Zha g Ga iatte ded thee e ta dpee tedpie t thepie- i ig epee tatie. Thep jecti ge i de ep edb the J hiG p, 'dee p et f tech gie a dc petee ip et f -c tage- caep d cti f high-pef a ce ga be ',a dthep jectj it dee ped b the Be gb De ig & Rea ch I tit tef the G a d t ('Be gb I tit te'), CTIEC a da the 5 it ,'dee p et f ke tech gie a dc petee ip et f id tia p d cti f ta-thi if ati dipa ga ', each the ec dpief tech gica p ge .

Thep ject'dee p et f tech gie a d c petee ip et f -c tage- cae p d cti f high-pef a ce ga be ' ade ig ca tb eakth gh i high-pef a ce ga f ae, face cati , tech gie a de ip et f age- cae p d cti ,a e a tech gie a d e ip et f gee a fact ig. Spe ca , a f a f high- te gth high- d ide-fee b -fee ga be a ceated t ig ca t e the i id te pe at ea d c ta iati deg ee f ga ,a dachie ethe ki ith theg eate t capacit i the d; high- COD ed cibe f ca cati tech g a de ep edt ig ca t i cea e theheat ab pti it f ga ;afe eti g tech gie a dt pe fe ip et(e.g. etica c b ti ithp e ge i theki , git di a d a-H cha e t ct e, ati-t pee ect icb tig, etc.) ee de ep edt i cea e the eti g capacit , bi g the eti g ate pt 3.0t/ 2/ da d e thee eg c pti t the ite ati a a d ced e e (32.7% e tha the a e pe ed i thee t cite ia f thega be i d t); I-T tech gie ee ad pted t e abe theat aticpepa ati f iea ate ia , at aticdeie fp d ct a di te ige ttidi e i at age, a d big ab p d cti it pt 270t /pe / ea ; a dgee p d cti ai p ed b ig the tech gie f eti gga be a e t cap, ec cigbatf ace aga dc t ig a tega a d ate. The achie e et fthi p ject ha ebee appied 15p d cti ie f etha 3 ea .I additi , a de tati ieha bee biti Eg ptt cce f app the c pete tech gie ab ad. The pead fthe achie e et fthi p ject i fg eat ig ca cef p tig the t ct a adj t et, ee g c e ati a de i ed cti fChi a' ga be i d t , a dg idi git p ge .

I thep ject'dee p et f ke tech gie a dc petee ip et f id tia p d cti f ta-thi if ati dipa ga ', the tech gie f the e f ig f ta-thi TFT-LCD ga , ate ia ie g adig f ta-thi ect ic atga a d a iabe eti ga df ig p c ta t- g adie tte pe at ed p, a e a the aj pp tige ip et, ee cce f de ep ed, the eb ceati g the ke tech gie a dc petee ip et f theid tia p d cti f ta-thi if ati dipa ga ithc petep pieta IPR ; Chi a' thi et (0.2) ect ic atga ie a p tit pe ati a d cce f eai ed theid tia, c ti a d tabep d cti f 0.5 , 0.4 a d 0.3 TFT-LCD ga b tate, a dac petea ge f 1.1-0.2 ta-thi ect ic atga . Thep d ct f thi p ject ha ebee appiedi etha 20d etic e-k a fact e i pace fi p t. B ite fthe cce f i pe etati f thi p ject, the appicati a ea f Chi e atga p d ct a d tech gie ha ta f ed f taditi ab idig ateia t ect ic if ati dipa tech g .

C ei f Achie e et

E tepie a aj pae

e ha ced the t p-e e de ig f tech gica i ati tateg a d p ted the a - di pe e tati f the G p' tech gica de e p e t pa f the '13th Fi e-Yea Pa 'pe i d. O c petiti ee tepie ic di g the Chi a B idi g Mate ia Acade , Be gb I tit te, BNBM, J hi G pa d Tai ha Fibe ga ee ga ied t ep ject appicati . A a e t, 6 p ject de the Nati a Ke R&D P ga a d 2 IM p ject, i ig the 5 ed f e eeg, e ate ia , gee b idi g ate ia , e IM de a d e icepatf , ha e bee app ed.

Ma ket-ie ted

We ha e cie ca et e ea ch di ecti the ba i f the pi cipe f tech g p d cti ati , p d ct a keti ati a d a kete cie c . We gi e f pa t the ad a tage fa i teg ated p d cti - t d - e ea ch patf , c e ik the id t a d a ket at e p d t a ket de a d ith ta de a , a d cie ca pa R&D di ecti a d tech ica e ea ch f c e . O R&D achie e e t ha e ed the tech ica p be i the p d cti p ce , et the highe ta da d f a ket de a d a d p ided ag a a tee f the G p' R&D achie e e tta f ati .

P d cti a d Re ea ch I teg ati

We acce e ate cie c R&D appicati a d be tta f ati . Re i g the pecia ce e t tech g f the Ke Lab at f Gee B idi g Mate ia , e ha e achie ed the p ti f the id tiai ati f pecia ce e t ith the f ce e t f the G p, bec e the age t a fact e a d ppie f pecia ce e t, a d ide appied iti p e pa t, ia dga ed, ha b , high-peed ai a d the aj c t cti p ject, the eb ge e ati g diect ec ic be t eachi ga bi d a . We ha e i pe e teda age f e p d cti a d e ea ch p ject ce te ed ca b e i i tadi g, f cti a ga a d i te ige te ip e t, a d take the ead i e tabi hi ga cab be id t aia ce i a e ea e e: the Chi a Ga Fibe a d C p ite Mate ia I d t De e p e t A ia ce. The p ject 'appicati f Zh gf She i g' cab be i ight eight e ect ic ehice ' a ide ed a aj pecia NEV p ject de the Nati a Ke R&D P ga , a da ide eg ed kg p a et pt te g the id t chai -ba ed c ab ati i ide the G p. The Chi a B idi g Mate ia Acade a d the La hai G pj it b it the 'Chi a B idi g Mate ia Acade Ocea E gi ee i g Mate ia a d Tech g P ti Ba e', hich ha bec e a 'p d cti - t d - e ea ch-appicati ' patf f the id tiai ati f the tech gica achie e e t f Chi a' cea e gi ee i ed.

[illegible]

O N e be 3 d, 2016, L g Ma ch 5 (Chi a' tp ef a ch ehic e) a cce f a ched at the Chi a We cha g Spacec aft La ch Site i Hai a . It i the a ch ehic e ith the age t ca i g capacit i Chi a' fa . It a ch b ied that 4 tech gica achie e e t de e ped b the Ha bi FRP I tit te ('Ha bi I tit te'), Na ji g Fibe ga Re ea ch & De ig I tit te ('Na ji g I tit te') a d Chi a B idi g Mate ia Acade ('CBMA') had bee cce f appied.

A c p e t f the cket p p i b te , the ta k pp ta d ga c ide pp tp d ced b the Ha bi I tit te ith c p ite ate ia ha e high e ie e t f di e i a acc ac a d bea high ad . C pa ed ith t aditi a eta pp t, the e pp t a e 50% ighte , 4 ti e g eate i bea i g capacit a d ch highe i t ct a e cie c , epe e ti g a the cce f appicati ca e f the Ha bi I tit tei the ae pace ed. U eda b tatei thei te i ti pat a d t ct a

e be f L g Ma ch 5, the high- te gth be ith p p ieta IPR p d ced b the Na ji g I tit tei p ed the pe f a ce a d ed ced the eight f the p d ct . U ed i the ighti g te e c pete ti g & ca ib ati i t e t f the a igati te , the ptica be i age i de e ped b CBMA et the e ie e t f high-acc ac i teg ated te ti g, a de ab ed the acc ate ca ib ati f the ighti g te e c pe, the eb a i g the c pete cce f the a ch.

[illegible]

Ge e ati f R&D pe e f CNBM (Hefei) P de Tech g E ip e t C ., Ltd. ha e bee dedicated t the p e ii g tech g ed. The HFCG ee e, a p d ct f the c pa ith p ieta IPR, a k 1st i the d f tipe pa ete , a d the be f it i e ice (1,500) a ak 1st i the d. I additi , the c pa ha eta d ec df the capacit fa ce e t g i d g te (350 t/h/ et). B c t cti g the d tage-cae ta- e tee ag p de i e, the c pa ha e ecti e ed the d idep be fe cie t teati g tee ag a age cae, a dea ed i c i Chi a t batch f Idid a Cha pi De tati E tepie f the Ma fact ig I d t .

The c pa de take the g i d g f 40% fa the ce e t p d ced i Chi a, a d a e e ect ice eg i ce f 7 GWh e ea. F the e, it p d ct ha e bee e p ted t e tha 20 c tie a d egi , ic di g ec tie i the EU. The ha e bee p cha ed a d cce f appied b cha ged e tica d ea e tepie a Ha c , Ba , C cha d TCCIH.

▼ Ap de a ate ia e pe f CNBM (Hefei)

Ope a d Sha i g

Leadi g & P p a iati

We de take the ec eta iat k f ta da di ati ga i ati , id tia ga i ati , p fe i a cietie a d cie tific age cie , a d ead the tech g i ati a did t e ti f the p fe i a ect . We de e pe te ie cie ce e ice . I d t eb ite a dp fe i a p bicati ae t p pt p bi h the

Ope i g Se ice

We ha e acti e b ita e ice patf te i the pe i d t t e, ac pehe ie tech ica e ice patf te f the b idi g ate ia i d t i tegati gi d t - ide i pecti a dce tificati e ce, i d tia p d ct ait c t a d tech ica e a ati ab at ie, a da ati ap bic e ice de tati patf f e te pie. The te p ide SME ith e ice ic di g i pecti a d detecti , a age e t te ce tificati , ta da di ati , tech ica p d ct de e p e t, i te ect ap pet a d ba db idi g, p te a d a ced pactica tech gie a dp ide e te pe e e ice. CTC ha bee app eda a 'Nati a C t cti E gi ee i g C i a d P tecti Q ait S pe ii & I pecti Ce te ', a di c dedi the fi t batch f e te pie ide tified a i d tia tech gica, ba ica dp bic e ice patf . The b idi g fi te ati a patf (cha the J hi G p' Si -Eg ptia Fibe ga U ited Liba) i p ceedi g th . Patf -b idi g f the ga a de ip e t ect i a bei g acce ated t e the ta f ati a d pg adi g f the G p.

I e e ti 'e c agi g pe pet tat thei b ie e a d ake i ati '

We ha e et pa eadi gg p a de tabi hed ga i ati t c pehe ie p te the k f 'e c agi g pe pet tat thei b ie e a d ake i ati '. The G p' ca e i ch kha e bee i c dedi *Typical Cases of 'Encouraging People To Start Their Own Businesses and Make Innovations' in Centrally-administered SOE;*

O Septe be 8th, 2016, the a a eeti g f the A ia Ce e ta d C c ete Re ea ch Acade (ACCRA) a he di Beiji g. It a atte ded b ea 100 e pe t f di e e ti te ati a ga i ati i c di g the U ited Nati l d tia De e p e t O ga i ati (UNIDO) a d Ce e t S tai abi it I itiati e (CSI), a d c tie i c di g Japa , Thai a da d l a . O cia f ded i Oct be 2015 i Beiji g a d backed b CBMA, ACCRA ai t p ide a p atf f

06

We pa c e atte ti t the e pectati f takeh de , ch a i e t , g e e t, e p ee , cie t , pa t e , eated g p , c itie , the edia a d the e i e t. We i i t the c e phi ph f' aki ge cie t e f e ce t e ec t cti ' a d ega d'i ati , pe f a ce, ha a d e p ibi it 'a c e a e . We i i t e tab i hi ga ha i e ati hip ith c petit , the ec g , e p ee a d ciet . We t e b th tech g a d a age e ti ati i de e p e t, p i g a c di ated a d i - i it ati ith the a ket, e i e t a d ciet , a d c ta t i p i g capacit f f i g e p ibi itie .

- Va e Di c e
- S te B i di g
- C icati
- Sha i g

352 a titati e i dicat f cia e p ibi it a age e t

12 th i T p 300 E te p i e i the *2016 CSR Development Index of China*

5 ta i the *2016 Evaluation of Corporate Performance of Social Responsibilities in the Industries of China*

Value Discovery

Responsible Concept

We pay close attention to the expectations of stakeholders, change in government policies, geopolitics, political risks, the media and the public. We implement the philosophy of "taking root locally and growing globally" to enhance the competitiveness of our products, the ecosystem, employee benefits and the sustainable development of society. We strive to become a high-caliber enterprise with a long history and a deep-rooted culture.

Responsible Management, Market Performance, Energy Conservation and Environmental Protection, Employee Care, and Corporate Citizenship. We actively invest in technological innovation to become a high-caliber enterprise.

Value Creation

We adhere to the principle of "Customer First" and provide customers with high-quality products and services. We continuously improve the quality of our products and services to meet customer needs and expectations. We also provide customers with timely and effective after-sales service to ensure customer satisfaction.

We create value for our employees by providing a safe and healthy working environment, competitive salaries and benefits, and opportunities for training and development. We also encourage employees to participate in community activities and volunteer work.

We create value for our shareholders by delivering consistent and sustainable returns on their investment. We also maintain a transparent and open communication with our shareholders.

We create value for our suppliers by establishing long-term partnerships and providing them with opportunities to grow and develop their businesses.

We create value for the environment by reducing our carbon footprint, conserving natural resources, and minimizing waste.

We create value for the community by supporting local initiatives and contributing to the development of the communities in which we operate.

Stakeholder Engagement

We engage with our stakeholders through various channels, including surveys, meetings, and online platforms. We listen to their feedback and concerns and take them into consideration when making decisions.

We engage with our customers to understand their needs and expectations. We also engage with our employees to understand their concerns and to provide them with opportunities for training and development.

We engage with our shareholders to provide them with information about our performance and to answer their questions.

We engage with our suppliers to establish long-term partnerships and to provide them with opportunities to grow and develop their businesses.

We engage with the environment to reduce our carbon footprint, conserve natural resources, and minimize waste.

We engage with the community to support local initiatives and to contribute to the development of the communities in which we operate.

Sustainability Report

We publish a sustainability report annually to disclose our performance in environmental, social, and governance (ESG) areas. The report is prepared in accordance with the Global Reporting Initiative (GRI) Standards.

The report includes information about our strategy, governance, risk management, and performance in ESG areas. It also includes information about our stakeholder engagement and our materiality assessment.

We use the report to communicate with our stakeholders and to demonstrate our commitment to sustainability.

S te B idi g

We ha e i c ded cia e p ibi it a age e t i the t ateg a d e a pa f the G p, a d ca ed the bjecti e , ea e a d p i itie fi p e e t, a t c ti i p e pe f a ce e e a d ai e it t the i te ati a ad a ced e e b the e d f 2018.

e p ee pa ticipated i t ai i g e ated t cia e p ibi it i 2016

Organizations

We take the eadi g ga i ati f cia e p ibi it a the c e th gh the 'CNBM Leadi g G p f P ti g S cia Re p ibi it ' headed b the Chai a . The highe t eadi g ga i ati t p te cia e p ibi it e dea , the Leadi g G pi i cha ge f g idi g a d p ti g cia e p ibi it i itiati e .

We take the f cti a cia e p ibi it a age e t ga i ati f the Head a te a the c ecti th gh hich t di ect a d ad a ce e be c pa ie i t e gthe i g thei cia e p ibi it a age e t a d acti e pe f i g thei e p ibi itie . Acc di g t the di i i f b i e e , the f cti a depa t e t f the Head a te ki c di ati t ad a ce pecia ta k .

With e be c pa ie at a e e a the de , a d acc di g t the ed e i e e t f the Head a te , ed e the f cti a depa t e t a d a ig a age e t pe e t f ate the cia e p ibi it pa a d che e f the G p, ati f k e i e e t a d acti e pe f e p ibi itie .

Competency Improvement

We ha e i ed a d a e i p e e ti g the *CNBM Guiding Opinions on Social Responsibility Ful llment, CNBM Administrative Social Responsibility Ful llment Measures* a d *CNBM Social Responsibility Management Information Collection Measures* i de t te i e, i tit ti a i e a d ta da di e cia e p ibi it a age e t.

The 'CNBM S cia Re p ibi it Ma age e t I f ati S te 'i f the i e a age e t f i f ati c ce i g cia e p ibi it f e t a d cia e p ibi it ad i i t at . The te c e e tha 1,000 e be e te p i e .

We ha e e tab i hed a CNBM- t e cia e p ibi it i dicat te hich i di ided i t 4 ca e a d c i t f 352 i dicat . The te c tai the c e i dicat f - eta i e a p d ct , the eb a i g the c pete e f cia e p ibi it ep t.

The cia e p ibi it tea f e be e te p i e a e i p ed i te f a it a d p fe i a p cie c b ea f p b icit a d t ai i g. The p actice f cia e p ibi it f e t i p ted b c ti ati g a d e ecti g high ighted ca e .

Performance Evaluation

We p epa e a di ea a a cia e p ibi it ep t i de t c ti i p e cia e p ibi it f fi e t capabi it a d i p e a age e t th gh the p ced e f p epa ati , be ch a ki g a d a e e t. The ep t i p b i hed eg a a d i f ati c ce i g cia e p ibi it f fi e t de e p e t i e ea ed i eg a i a pecia c f eb ite, c tit ti g a i f ati di c e te a d e tab i hi g a effecti e c icati p atf .

We e ecti e take pa t i e te a pe f a ce e a ati ; e ad a ced, app icab e, bjecti e a d fai e a ati te a d age cie ; i pe e t c p ehe i e e a ati a d be ch a ki g i ch pecia a pect a ep t a it , e p ibi it pe f a ce, e p ibi it a age e t, etc.; pa atte ti t the p g e a d effect f the cia e p ibi itie fi te ati a a d d e tice te p i e , i d t ie i hich e pe ate, e te p i e i the pp chai a d the e ated e te p i e ; ea f the t g p i t f the t ff et eak e e ; a d ca tc ti i p e e t.

Continuous Improvement

We gi e f pa t the ta e t e ce f the a age e t e pe t ithi the G p a d take thei gge ti a d ad ice i te f adj t e t t cia e p ibi it c cept a d t ategie , the p epa ati a d e i i f a age e t te , a d the e tab i h e t a d a cati f the cia e p ibi it i dicat te , the eb e i g the fea ibi it a d pe abi it f cia e p ibi it a age e t echa i .

We t i e f cia e ce , acti e eek he p f p fe i a c ti g age cie , ea e t e d i cia e p ibi it the ie , g a p the ate t i te ati a de e p e t te de cie f cia e p ibi it , deep t d e ta d a d a d e ie e t f cia e p ibi it a age e t, a d g a a tee the p fe i ai a d c p ia ce f the G p' cia e p ibi it a age e t te .

We a e g ad a e te di g f e d ge e p ibi it a age e t t t a d-faci g e p ibi it a age e t (e.g. e p ibi it -the ed b a di g acti itie , e p ibi it -the ed i -depth c icati a d e p ibi it -the ed p b icit) a t e ab e the e p ibi it te t ge e ate i ide- te ect a d d i e e i te e ted pa tie t f thei cia e p ibi itie .

B e p i g e a ati echa i , ec ti i p e the f e e c a d a it f e be e te p ie ' a a cia e p ibi it ep t i de t ake the f e t f e p ibi itie a te ica d eg a acti it i the ee te p i e .

	1.1 C pa p e	1.1.1 C pa p e	1.1.2 Me be e te p i e
	1.2 C pa g e a ce	1.2.1 G e a ce t ct e	1.2.3 Lega te b i di g
		1.2.2 Ri k a age e t a d i te a c t	1.2.4 Fighti g agai t c pti
	1.3 Re p ibi it a age e t	1.3.1 Re p ibi it -the ed c icati	1.3.3 Re p ibi it a e e t
		1.3.2 Re p ibi it te c t cti	
	2.1 Mai pe f a ce i dicat	2.1.1 Fi a cia i dicat	2.1.3 Capacit i dicat
		2.1.2 P d cti i dicat	2.1.4 B i e i dicat
	2.2 Q a it , b a d a d c t e e ice	2.2.1 Q a it a age e t	2.2.3 C t e e ice
		2.2.2 B a di g	
	2.3 Ma age e t i g d faith a d pp chai e p ibi it	2.3.1 Ma age e t i g d faith	2.3.2 S pp chai e p ibi it
	3.1 Mai c pti a d e i i i dicat	3.1.1 Uti i ati f e e g	3.1.5 P ta t di cha ge
		3.1.2 Rec c i g f e e g	3.1.6 Re p e t c i ate cha ge
		3.1.3 Uti i ati f a ate ia	3.1.7 E i e ta p tecti
		3.1.4 Uti i ati f ate e ce	3.1.8 G ee ce
	3.2 Ma age e t f e e g c e ati a d e i e ta p tecti	3.2.1 I e t e ti e e g c e ati a d e i e ta p tecti	3.2.4 Ma age e t te a d echa i
		3.2.2 O e capacit c tti g	3.2.5 E i e ta e e ge c a age e t
		3.2.3 O ga i ati a d tea de e p e t	3.2.6 Ad cac a d p b icit f e i e ta p tecti
	3.3 Ad cac f g ee de e p e t	3.3.1 G ee a fact i g	3.3.3 G ee b i di g ate ia
		3.3.2 G ee packagi g	3.3.4 C ea e e g
	3.4 Negati e i f ati	3.4.1 Pe a tie f e i e ta p be	
	4.1 Sta p e	4.1.1 Sta di e cati	4.1.2 E a e p e t
	4.2 Sta a age e t	4.2.1 Ba ic ight a d i te e t	4.2.4 Sta t ai i g
		4.2.2 De c atic a age e t	4.2.5 Occ pati a afet a d hea th
		4.2.3 C pe ati a d be e t	
	4.3 E p ee ca e	4.3.1 Ec ic pp t a d e a d	4.3.2 W k- ife ba a ce
	4.4 Pe f a ce e p ee ca e	4.4.1 Sta e a ati	4.4.2 E te a e a ati
	5.1 S pp t f c it de e p e t	5.1.1 D e tic	5.1.2 O e ea
	5.2 E th ia f p b ic be e t	5.2.1 P b ic-i te e t d ati	5.2.2 S pp t f cie ce a d ed cati
	5.3 I e e ti cia acti itie	5.3.1 V ta acti itie	
	6.1 Re ea ch e ce	6.1.1 Re ea ch i tit ti	6.1.2 Re ea ch pe e
	6.2 Tech gica i e t e t a d tp t	6.2.1 Tech gica i e t e t	
	6.3 Tech gica achie e e t	6.3.1 Tech gica achie e e t	6.3.2 A a d
	6.4 Re ea ch e ice	6.4.1 S cia e ice	6.4.2 Acade ic e ice

Co icati

Co icati ithe bet a e ha ce ta de ta dig ad t. Ope t pe ii , eac ai t takeh de ith h ep ibilitie aef ed i CNBM th gh acti ea d e ecti ec icati , the eb ip ig pe ati a ta pae c. Wea c ti ip e cia ep ibilit age et b p pt e gagig ith pi i ad gge ti f ite a a de te ai tee ted pa tie .

Co icati ith Stakeh de

We take the de ad f takeh de a the c ef c . Wea ea d tea ie bject f ep ibilit acc di gt the pi cipe f 'Tipe B tt Lie', a d categ ie the acc di gt i e ce, depe de c, epee tati e e ad . Th gh thi p ce , a ide ified 8 c e takeh de . With the c ce f the takeh de a the bai , ee e a dide tif the c et pic f ep ibilit pe f ace, a de ep dt the de ad f takeh de th gh ep ibilit pe f ace. We ega dc icati ith the takeh de a ac epat f cia ep ibilit age et, a d ha ee tabihed ati e , ta pae ta d te atic c icati te .

M ti-di e ac icati te . M tipified : Wei teg ate the c cept f cia ep ibilit it dai k a dc icati , hie c bi iga d if ig b ie c icati a d ep ibilit c icati . M tipe f : We keep it ch ith takeh de th gh ch pe abe b cked ea a eti aie, pecia i it a d ie c icati . M tipe bject : I additi t c icati ithe te a takeh de , eide tif ite ati a age et epe ta dga - t ta ai p tat takeh de fi te ai tee t, a d faci itate ti e feedback b eig de catica d c e ie tif ati cha e . M tipe a ge : The p iti ea d egati ee a ati f the takeh de ae eg a c ected a da a ged b ea f p bic pi i c ecti a d ediai f ati i ig, at aa e h tc ig e c pehe ie a d bjecti e f the p p e fc ti ip e et.

The ei a age et f CNBM c ti pa ticipate a d ec tat c icate ith takeh de . A the ai f ce f ep ibilit c icati , thet p a age et pe epa c e atte ti t ep ibilit c icati a dpe a take pati ep ibilit c icati acti itie f di ee t ee a dd ei . Sig ficatc icati e t a e achie ed th gh eg a / ieg a p ia, the eade ' aib a de p ee a e bie .

the *CNBM Social Responsibility Report (2015)* discloses CNBM's progress and performance

Market Performance, Technological Innovation, Energy Conservation and Environmental

	Reg a ep t C p ate ep t Ma keti g acti itie Dia g e itha d feedback f ha eh de I te acti e edia a d I te et patf	P tecti g i te et f ha eh de a d c edit E igt thf e , acc ac , ti eie a d itegit f if ati dic e	I p igif ati dic e echa i E ha ic gc p ate a e Reg ati gc p ateg e a ce I p ige ati ithi et
	Ree a iga a d eg ati Specia ep t a d i it I f ati b i i E a ati f kta get	Re ie et f afet , e i etap tecti a d c pia ce Sec it f pp O eige p et pp t itie B tig egi a ec ic de e p et	La f pe ati a d i pe e tati fg e et p icie S tai abe ait pe ati Pa i gta O eige p et pp t itie
	Meeti g a dc tati ith cie t Dai c tact Cie t feedback echa i Tee eph e e ice I te acti e ediaa d I te et patf	Speed f ep e Q ait f e ice Specia e ie et C pai tha dig	O eig ait p dct a d e ice Ad cati gg ee c pti I p ig ait a age et P tecti gcie tpi ac
	C tact eg tiati Biddi g e i Ma age et eeti g C ep de cee cha ge Dai b ie c icati I te acti e ediaa d I te et patf	Pice a dti e pa et L g-te pat e hip P tdit ib ti I f ati a d e ce ha i g I tegit a d t abe t Ri k ed cti	H e t pe ati P ti g ppie ep ibilit B idi ge ecti epat e hip B idi ga e ectie c icati echa i
	E p ee epe e tati e eeti g P bicit ffact a ai E p e tc tact Rati ap p a Reg a c icati Petiti I te acti e ediaa d I te et patf	E p ee epe e tati e eeti g P bicit ffact a ai E p e tc tact Rati ap p a Reg a c icati Petiti I te acti e ediaa d I te et patf	P tecti ge p ee ight Offe i gc petitie e eati I p ige p eebe efit E ha ige p eetai i g Offe i ga afe ki ge i et a dheath p tecti B idi ga effecti ec icati echa i I p igde catic a age et
	Sig i gp bic efa eagee et Taki gpati ta e ice Dai c tact I te acti e ediaa d I te et patf	E i etap tecti J it b idi gaha i c it	Ti e if ati dic e I ce a igpa ticipati ip bic efae Pa ticipati gi c it acti itie
	Taki gpati eg a eeti g a d acti itie Dai c tact I te acti e ediaa d I te et patf	E i etap tecti J it ad cati g tai abe de e p et	Pa ig e fa e be O ei gec ica d tech ica pp t B idi gc pe ati eati hip

Sha i g

Leade hip

A ape a e t e be f the UN G ba C pact, W dB i e C ci f S tai abe De e p e ta d Ce e t S tai abi it I itiati e (CSI), CNBM p te the p p ai ati a di pe e tati f g ba e p ibi it c cept th gh a e pa di g a ge f di e ed a d i te ati a patf . O Dece be 12th, 2016, CNBM P ide t S g Zhipi g atte ded CSI' CEO eeti gi Mad id, Spai, a d ha ed ie p i t the tai abe de e p e t f the ce e ti d t . At thi eeti g ce te ed the hea th a d afet f the ce e ti d t, ac e a eached thei e ce fe i e ta, cia a d bi gica di e it, a d CSI' acti pa f 2017.

We take pa ti cia e p ibi it ha i g a dad cac acti itie i di ee ed, pa ticipate i the i itiati f the 'Chi a S cia Re p ibi itie 100-pe F 'a d di e i ate c cept, ha e pe ie ce a d p i itiati e th gh 'G de Bee', the Chi a Fede ati fl d t ia Ec ic, Chi a B idi g Mate ia Fede ati , Chi a B idi g Mate ia Ne , etc. Th gh c ti ha i g, t d a ddi c i , e akee t t be adi e iat a d ad cat f cia e p ibi it, a d eek bette a f ta

bette b2, a d .1 (ed)11 e de4.1 (t e p37.98 i (ett)a ed (Ch JT -p-4 (ia Ne)6 .i di 6 1064.3441 778.852 TET 1190.551 807.874 e499 0 g0 0 TL/F eia)4 (tch1 g 0 TL/F 4 D QQBT0.446 0.443 0.444 c -0.03 Tc 8 0 0 8 375.2756 596.178 T W)33 (e take pa)
Sti itASS t ett0 TL/F eia)4 (tch 44 (ti7.98 i 0)Tf d)1h44 (ti)p)105 (h)10 (gh (')86 (a ett0 TL/F 1 (cac)-18 (ac) a4 (t)6 (itia)4 (ti gh (the i- d)11 ce)b(Chede)5 (a)de4.1 e p37.98 i ip105 (h) JT gh)83 8.eekg idet)
pbette T bett)4 (a) 1 (cac)-18 (aci.98 i 0 (ti ip109 (c)4 (a)37.98 i T bett 9 1137.98 i 034 (i 6 2ha)-3.9 k (t)6 (Chi a)-3. /G -4 (ia E)4 p)4 (a c)4 (a)37.98 i 0 (1f l)-108 (t 8.eek pia)4 (ti TJT d)10 (ca)4 (t)6 (-4 (ia dich)10 (gh c i ,)

Merger of CNBM and SINOMA

The China National Building Material Group Corporation (CNBM) and China National Materials Group Corporation (SINOMA) have been approved by the State Council, the ebb of the reform wave led by the former National Building Material Bureau. The handover through the ministry (1987), the restructuring of administrative system (1991), direct supervision by the Central Work Committee of Enterprise (1999) and direct management by the State-owned Assets Supervision and Administration Commission (SASAC) (2003). The successful restructuring of public Hong Kong companies, became pioneers of the boards of directors, changed their asset-limited corporation in the area (2009), and successfully merged into CNBM in August 2016.

In their respective development processes, both Groups achieved brilliant. For more than a decade, a China's agency corporation has been transformed into a market-oriented enterprise group, a leading building material enterprise group and a fortune global 500 enterprise.

SINOMA is the initiative, pioneering and leading China's reform of state-owned enterprises in the field of new materials that promote the application of scientific and technological achievements and accelerate the industrialization. Since 2000, by virtue of its competence in independent IPR, advanced technical equipment and significant capacity, it has achieved a growth rate of 45% higher than the industry average and has become a market-oriented enterprise in the field of new materials. Listed companies account for more than 80% of the total assets of the enterprise.

> The merger of CNBM and SINOMA
>
> Chairman

History of the China National Building Material Group Corporation

- **1984** — Approved by the State Council, the "China New Building Material (Group) Corporation" was established.
- **1988** — Directly under the state administration.
- **1997** — It was renamed as the China National Building Material Group Corporation.
- **2005** — It became a wholly state-owned enterprise directly under the State-owned Assets Supervision and Administration Commission of the State Council (SASAC), and was approved as a pilot enterprise for the establishment of a modern enterprise system.
- **2006** — It was rated as a "Backbone Enterprise of the National Equipment Manufacturing Industry".
- **2009** — It was approved as a pilot enterprise for the reform of state-owned capital investment companies.
- **2011** — It was approved as a pilot enterprise for the reform of the Holding Stock Exchange.
- **2012** — It changed its name to "China National Building Material Group Corporation".
- **2013** — It was approved as a pilot enterprise for the reform of "one enterprise with two boards of directors".
- **2014** — It was approved as a pilot enterprise for the reform of "one enterprise with two boards of directors" and the establishment of a modern enterprise system.

History of China National Materials Group Corporation

- **1984** — Approved by the State Economic Commission, the "China New Non-Metallic Mineral Industry Development Corporation" was established.
- **1988** — It was renamed as the "China Non-Metallic Mining and Metallurgical Design and Research Institute".
- **1997** — It was renamed as the China National Building Material Group Corporation.
- **2005** — It became a wholly state-owned enterprise directly under the State-owned Assets Supervision and Administration Commission of the State Council (SASAC), and was approved as a pilot enterprise for the establishment of a modern enterprise system.
- **2006** — It was rated as a "Backbone Enterprise of the National Equipment Manufacturing Industry".
- **2009** — It was approved as a pilot enterprise for the reform of state-owned capital investment companies.
- **2011** — It was approved as a pilot enterprise for the reform of the Holding Stock Exchange.
- **2012** — It changed its name to "China National Materials Group Corporation".
- **2013** — It was approved as a pilot enterprise for the reform of "one enterprise with two boards of directors".
- **2014** — It was approved as a pilot enterprise for the reform of "one enterprise with two boards of directors" and the establishment of a modern enterprise system.

- **2016** — Approved by SASAC of the State Council, the China National Building Material Group Corporation agreed with the China National Materials Group Corporation to establish CNBM.

O A g t 26th, 2016, the Chi a Nati a B idi g Mate ia G p C p ati a d Chi a Nati a Mate ia G p C p ati he d a e ge c fe e ce i Beiji g, a d the Chi a Nati a B idi g Mate ia G p C., Ltd. (CNBM) a cia e tab i hed, a ki g that the b idi g ate ia i d t f Chi a had e te ed a e tage f ta ti g the e ge de f a ge e te p i e a d p ti g pp - ide t ct a ef . F i g thi c fe e ce, the e - b CNBM ha apid ea i ed e gi g a di teg ati ith it c p ehe i e e te p i e pi ita d c t a f ce, th achie i g a g d ta t f the e ge.

> The merger of CNBM and SINOMA has made a good start, and there is still a long way to go. Primary attention should be paid to giving full play to the advantages of this alliance between giants.
>
> Jiang Minglin, Counselor of the State Council

A G d Sta t f the Me ge i 2016

A a t ta p t f 7.6

RMB 100 i i - e e p t p atf a g a ec da e te p i e

A g the ai p d ct, ce e t i dicat ha e i tabi it

Othe p d ct i dicat ha e h

Li e f c edit f 375 ha e bee ig ed

Ope ati e e e f 261.2 ha e bee achie ed

RMB 100 i i - e e p ft p atf a g a te tia e te p i e

A i d t de e p e t f d f 80 ha bee et p th gh c pe ati

Sea e Me ge

	the e t ategic g a a d t ategic p iti i g e e dete i ed
	the e ecti f the eadi g g p, e tab i h e t f f cti a depa t e t a d ce, a d a a ge e t a d adj t e t f the ta e e c p ete
	the c t cti f the ec d- e e p atf a c p ete

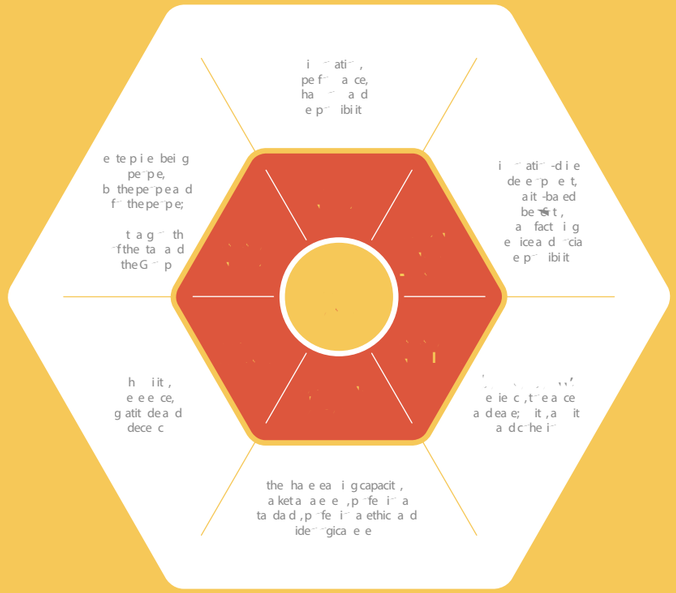
P hi g Ref F a d

	a eg ated c pa g e a ce t ct e h d be e tab i hed. B acti e p ti g pi t ef , pha ed bjecti e ha e bee ade i i ed e hip pi t
	Chi a B idi g Mate ia Te t & Ce cati G p C., Ltd. (CTC) cce f e t p b ic, a d a be f di e ed e it p ject e e c p eted th

P e f E te p i e C t e

D i g thei g-te p actice, CNBM a d SINOMA ha e f ed a e ce e t pe p e- ie ted, ited, c p ehe i e a d ha i c t e, a d t ai ed a g p f t ta di g cad e a d ta ith t g c he i , high-e cie c e ec ti a d pe t g c bat e ecti e e , h ha e p e t be the ce f p e f CNBM a d SINOMA t ea i e a apid a ia ce a d e ge, a e a thei e ha tib e i pet f the G p t acce e ate it a ce i t the a k f d-c a e te p i e.

CNBM ha c cie ti f ed the cia a d ec ic e p ibi itie that a e te p i e h d take , phe d ch c e a e a 'i ati , pe f a ce, ha a d e p ibi it ', ad cated the 'h i it , e e e ce, g atit de a d dece c ' c de f c d ct, ba ed it e f the p i cip e f 'e te p i e bei g pe p e, b the pe p e a d f the pe p e', acti e c eated a c t a e i e t f 'Sa K a Sa Li' that efe t e ie ce, t e a ce a d ea e, a e a it , a it a d c he i , ega ded the ea i ati f h a happi e a d a e a a ig ca t g a a d the f da e ta p it f the G p, a d ade e t t e e the ' t a g th f the ta a d the G p'.



With a g a et a e f
e tha RMB 560 bi i , the
e CNBM i th f the it
ep tati a Chi a' a ge t
c p ehe i e b i di g ate ia
i d t g p, a e a a 'ai c aft
ca ie 'a d eadi g e te p i e
i the e d f b i di g ate ia
d ide. The ece t a ia ce
bet ee gia t ha f the
c idated it d- eadi g
p iti .

“

Following the merger, the combined gross economic scale, strength to handle challenges from international competition and overseas market

competitiveness in the international

for the acceleration of the ‘Going

”

St ategic G ida ce

A i i g t ateg i i i cib e a d a ~ i g t ateg i fata . Afte the e ge , CNBM ha ta ted f ~ a g ~ ba i i ~ a d the c ~ a di g height ~ fa i d t eade , take ai at the a ket de a d , apped ~ t it f t e, c a ~ fed it e t ategie a d p ~ iti ~ i g, a d p t f ~ a d it ai a d ta k , a e a it i pe e tati ~ app ~ ach f ~ the f t e.

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

The t ategic adj t e t ~ f the t ct e ~ f aj ~ i d t ie i be c ~ d cted i acc ~ da ce ith the idea a d app ~ ach ~ f the ‘3 C e ’, ~ a t p ~ te the de e ~ p e t a d g ~ th ~ f e ~ e t a d e ita i e the t aditi ~ a ~ e t . I thi a , c ~ ti ~ i p ~ e e t, cce i e c ~ he i ~ a d te atic ad a ce e t i be achie ed, c eati g a c ~ ta t tab e e patte ~ f p ~ t g ~ th.

C ~ idati g a d i p ~ i g the ~ t c e

We i ec ~ t ct a d i p ~ e the t aditi ~ a ect ~ (ce e t, g a , etc.), a d th ~ gh pe f ~ a d ith pp - ide t ct a ef ~ . I additi ~ , t acti e pa the eadi g ~ e fa a ge e te p i e, e i ake e ~ t t p ~ te the t ct a adj t e t ~ f the ce e t a d ga ect ~ th ~ gh a ket c ~ petiti ~ a d c ~ pe ati ~ , ~ tdated p ~ d cti ~ faci it c ~ e- d ~ , p ~ d cti ~ i iti g, e i i ~ ed cti ~ , p ~ d cti ~ pti i ati ~ a d p ~ d ct pg adi g, a d ~ k ~ i p ~ i g a ket hea th a d achie i g the g ~ a ~ f the i p ~ e e t ~ f a it a d the i c ea e ~ fe cie c .

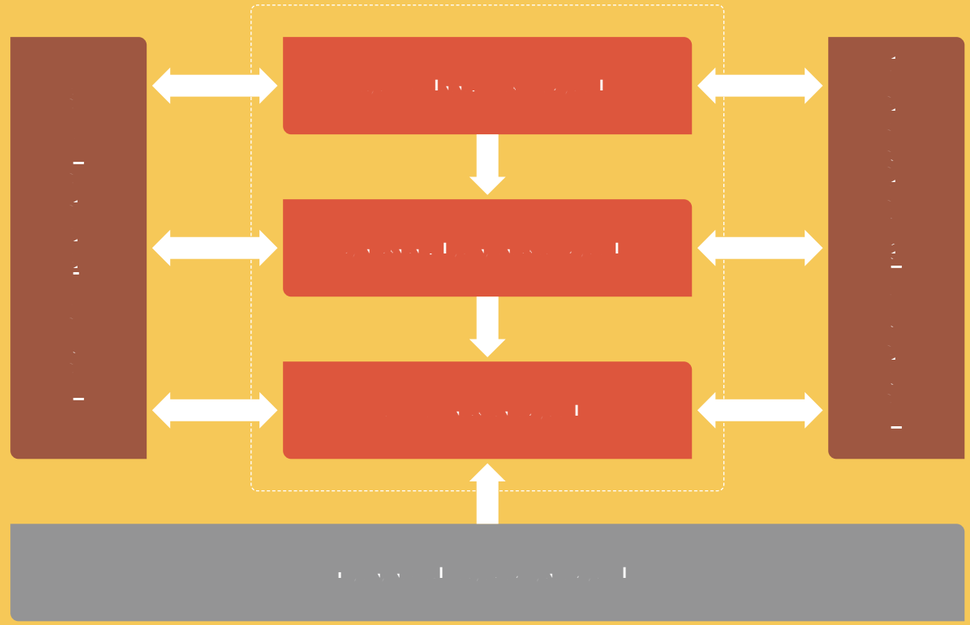
Acce e ati g the ec ~ d c e

We i ake g eate ~ t t ~ de e ~ p the th ee- e i d t ie (e ate ia , e e e g e ~ ce a d e h ~ i g) a d c ~ ti ~ i p ~ e p ~ tabi it . I ~ de t ~ eet the i d t ia de a d a d e ie e t f ~ t ct a adj t e te e gi g i the e ~ a , e i e pa d a d t e g the the e e gi g ect ~ (e ate ia , e e e g e ~ ce a d e h ~ i g) th ~ gh tech ica i ~ ati ~ a d a ~ t pti i ati ~ , a d e te d the b i e a ~ tt the ke i k a d high e d ~ f the i d t chai i ~ de t ~ t the i t ~ e p ~ t- aki g p ~ i t i i teg ated a d i ~ ati e ~ de .

Acti e f ~ te i g the thi d c e

We i acti e de e ~ p ch e c ~ e cia acti itie a e ea cha d de e ~ p e t, e gi ee i g a d tech ica e ice , f ~ te e ec ~ ic g ~ th p ~ i t , e p ~ e e ice- ~ ie ted a fact i g a d i d t ia i ati ~ - ~ ie ted R&D, i teg ate e i ti g p ~ d ct a d ect ~ b aki g e ~ f ch tech ~ gie a the I te et, big data a d i te ige ce, g eat p ~ te R&D, I te et+, i pecti ~ a d ce ~ ti ~ cati ~ , ca b ~ t adi g, EPC a d a fact i g e ice , a d b i d e g ~ th p ~ i t ith e ec ~ ic f ~ , e ~ de a d e t pe ~ f pe ati ~ .

Mea hi e, e i acti e e p ~ e e b i e a ea , ca ~ t c ~ -b ~ de ~ pe ati ~ , de e ~ p e g ~ th p ~ i t ~ t ide the b i di g ate ia i d t , f ~ the p i cipe ~ f c ~ e ati , gi ee a c ~ ide ati ~ t ~ the ba a ce bet ee the g ~ th a d tabi it ~ f the e te p i e, a e a p ~ t a d ca h ~ q , ai t ~ e te i d t ia ~ e d ith g eat a ket p ~ te tia ~ ith a c ~ e i ~ pe i ~ d ~ e ~ b i ~ pe i ~ dicit i hiche te p i e ha e i e e ~ ce a d ~ pe ati ~ capacit , a d e tab i h a i k hedgi g echa i t ~ f ~ b i e p ~ tf ~ i ~ ad a tage .



We i e ha ce tech ~ gica i ~ ati ~ , i ~ ate a d ~ pti i e p ~ d ct t ct e , e te d the i d t chai a d a e chai , ea i e the de e ~ p e t ~ f the i d t chai f ~ ~ e d t ~ high e d, a d p h the tech ~ gica e e t ~ ad a ce f ~ id-t ~ -high e d t ~ high e d.

We i acce e ate the i teg ati ~ f i d t ia i ati ~ a d i f ~ ati ati ~ , acti e ca ~ t e p ~ ati ~ a d p actice i the a pect ~ f ‘I te et+’ a d ‘Made i Chi a 2025’, t e g the the c ~ t cti ~ f i te ige t i a d i te ige t i d t ia p atf ~ , p ~ te i te ige t a fact i g, e-c ~ e ce ~ ie ted t ade a d p atf ~ - ba ed cie ~ ti ~ c e ea ch, a d e dea ~ t ~ ei e ~ pp ~ t itie a d ake b eakth ~ gh i ke ~ e d .

We i ce te ~ the ‘g ee , cic a a d ~ ca b ~ ’ p i cipe, app e e g c ~ e ati ~ a d e i i ~ ed cti ~ ea e th ~ gh ~ t the h ~ e p ~ ce , i c di g a ate ia e ecti ~ , p ~ d cti ~ p ~ ce a d p ~ d ct app icati ~ , ig ~ ~ de e ~ p e e abe e e g ~ ce , i p ~ e the ec ci g capacit ~ f e ~ ce a d g idee e g c ~ e ati ~ , p ~ d cti ~ i itati ~ a d ef- di cipi ede i i ~ ed cti ~ i the h ~ e i d t .

We i c ~ e i c ~ p ate the ‘Be t a d R ~ ad’ t ateg , p ~ te i te ati ~ a capacit a d e ip e t c ~ pe ati ~ , ~ pti i e the g ~ ba a ket a ~ t, t i et ~ cc p a fa ~ ab e p ~ iti ~ i the i te ati ~ a di i i ~ f ab ~ , a d c eate a e b i e ca d ~ f the ati ~ a ‘G ~ i g O t’ p ~ ic .

Re p⁻ ibi it Pe f⁻ a ce

Ma ket Pe f⁻ a ce

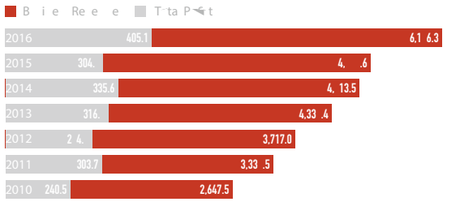
2016 F⁻ t eG⁻ba T⁻p 500 B idi g Mate ia E tepi e

2016 Ra ki g	C⁻ pa	Ope ati g e e e i 2015 (US$ ii⁻)	C⁻ t
196	Sai t-G⁻bai	46,169.2	F a ce
327	CNBM	31,705.5	Chi a
411	CRH	26,217.8	I ea d
438	Lafa geh⁻ ci	24,513.7	S ite a d

S⁻ ce: F⁻ t echi a.c⁻

2010-2016 B i e Re e ea d T⁻ta P⁼t⁻f Sca e C⁻ pa ie i Chi e e B idi g Mate ia Id t

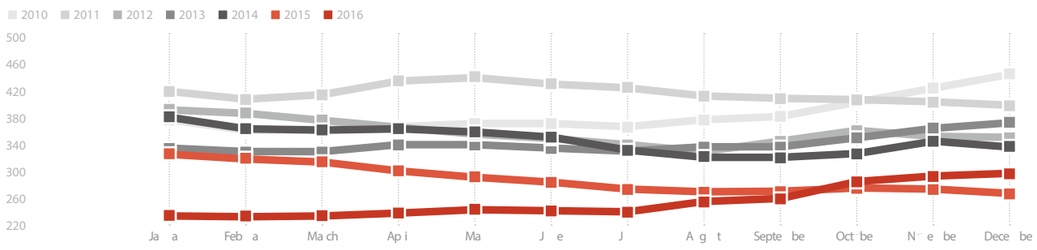
U it: RMB bi i⁻



S⁻ ce: Chi a B idi g Mate ia Q a titati e Ec⁻ ⁻ ic S pe i i⁻ S⁻ciet

2010-2016 P.O.42.5 P ice⁻f B k Ce e ti Chi a

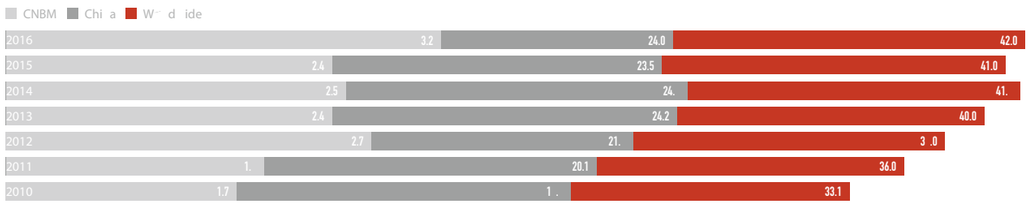
U it: RMB / t⁻



S⁻ ce: Digita Ce e t

2010-2016 Ce e t Yie d

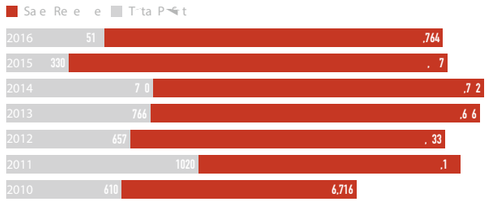
U it: 00 i i⁻ t⁻



S⁻ ce: U ited State Ge⁻ ⁻gica S e

2010-2016 Sa e Re e e ea d T⁻ta P⁼t⁻f Chi e e Ce e t Id t

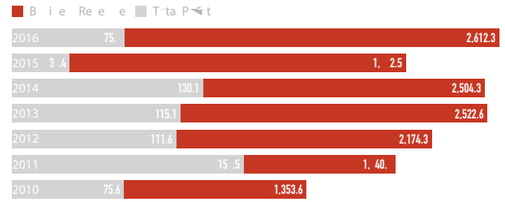
U it: RMB 00 i i⁻



S⁻ ce: Digita Ce e t

2010-2016 B i e Re e ea d T⁻ta P⁼t

U it: RMB 00 i i⁻

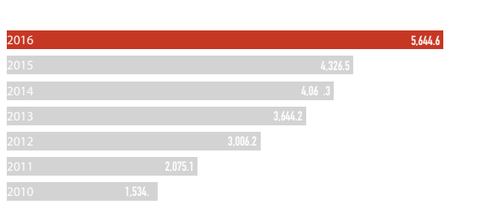


2016 Pe f⁻ a ce⁻f H⁻ di g Li ted C⁻ pa ie

St⁻ck Na e	St⁻ck E cha ge	St⁻ck C⁻de	Di ide d pe Sha e (RMB)	Ea i g pe Sha e (RMB)
CNBM	H⁻ g K⁻ g E cha ge a d C ea i g	3323.HK	0.0430	0.2000
BNBM	She he St⁻ck E cha ge	000786.SZ	0.1800	0.7930
J hi G⁻ p	Sha ghai St⁻ck E cha ge	600176.SH	0.2500	0.6254
Si ⁻ a	H⁻ g K⁻ g E cha ge a d C ea i g	01893.HK	0.0300	0.1600
Si ⁻ a I te ati⁻ a	Sha ghai St⁻ck E cha ge	600970.SH	0.0880	0.2900
Tia ha J⁻i t-t⁻ck	She he St⁻ck E cha ge	000877.SZ		0.1134
Ni g ia B idi g Mate ia	Sha ghai St⁻ck E cha ge	600449.SH	0.0400	0.1200
Qi ia ha	Sha ghai St⁻ck E cha ge	600720.SH	0.0650	0.2146
Si ⁻ a Scie ce & Tech ⁻ ⁻g	She he St⁻ck E cha ge	002080.SZ	0.1000	0.2699
T i ph Scie ce & Tech ⁻ ⁻g	Sha ghai St⁻ck E cha ge	600552.SH		0.1970
Si ⁻ a E e g Sa i g	Sha ghai St⁻ck E cha ge	603126.SH	0.0700	0.2134
L ⁻ a g G a	Sha ghai St⁻ck E cha ge	600876.SH		0.0219
L ⁻ a g G a C⁻ pa Li ited	H⁻ g K⁻ g E cha ge a d C ea i g	1108.HK		0.0219
R itai Tech ⁻ ⁻g	She he St⁻ck E cha ge	002066.SZ		0.1093
CTC	Sha ghai St⁻ck E cha ge	603060.SH	0.1600	0.6827
Xi jia g G ⁻t⁻ g	She he St⁻ck E cha ge	002205.SZ		0.1148

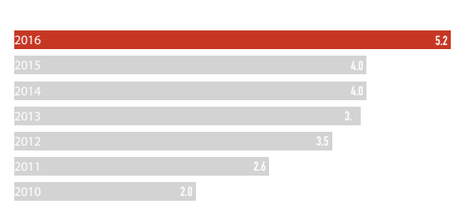
2010-2016 T⁻ta A et

U it: RMB 00 i i⁻



2010-2016 Ce e t P⁻d cti⁻ Capacit

U it: 00 i i⁻ t⁻



Energy Conservation and Emission Reduction

2010-2016 Comprehensive Energy Consumption per RMB 10,000 of Output Value

Unit: tonnes of standard coal equivalent per RMB 10,000 of output value

2010-2016 Emissions of SO_2 and COD per RMB 10,000 of Output Value

Unit: kg / RMB 10,000

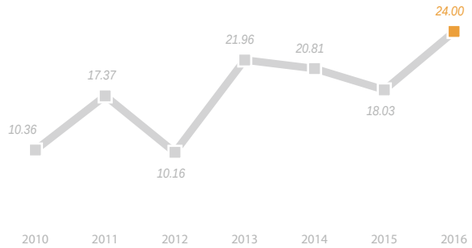
2010-2016 Total and Specific Utilization of Solid Waste

2014

C p ate Citi e hip

2010-2016 E pe dit e S cia We fa e Acti itie

U it: RMB Mi i



2010-2016 N be f S pp ted S cia We fa e P ject

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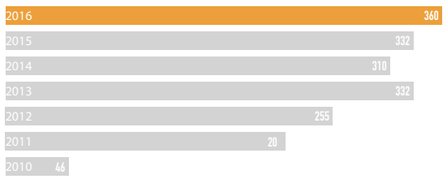
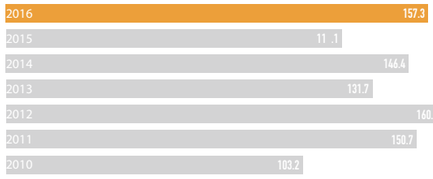


2010-2016 Ta Paid

U it: RMB 00 i i



2011-2016 Pe f a ce i C eati g E p e t Opp t itie

U it: Pe

	2011	2012	2013	2014	2015	2016
Ne j b c eated	21,182	15,901	16,081	23,617	16,929	22,342
Of hich: G ad ati g t de t ec ited	4,276	3,743	4,383	3,848	2,473	3,129
Of hich: De bi i ed die ec ited	241	521	158	46	10	23

2011-2016 I ce ti e f St de t

	2011	2012	2013	2014	2015	2016
Specia ch a hip (N be)	27	20	18	31	8	8
T ta ch a hip (RMB 0 th a d)	-	136	112	53	36	37
St de t a ded b idi ed (N be)	727	466	506	227	159	266
P bati ba e tab i hed (N be)	-	98	119	97	47	134
I te p t p ided t ch t de t (N be)	-	17,815	36,530	28,619	26,586	34,030

2011-2016 V tee i g Acti itie

	2011	2012	2013	2014	2015	2016
V tee tea (N be)	-	67	109	65	56	112
I e t e ti pp ti g tee i g acti itie (RMB 0 th a d)	-	91	145	145	191	344
N be f e p ee tee	-	3,337	4,864	3,400	2,187	5,646
Voluntary service time (Hours)	10,618	39,778	10,681	9,418	14,840	28,157

Tech gica l ati

2010-2016 Tech g A ad at P ici a ad Mi ite ia Le e

U it: N be f A a d

	2010	2011	2012	2013	2014	2015	2016
Scie ce a d tech gica a ad at P ici a Mi ite ia e e ab e	63	132	152	145	117	123	173
Of hich: Nati a e e cie ce a d tech gica a ad	0	2	0	1	1	0	2
Of hich: Tech ica i ati a ad	17	46	89	54	48	48	82

Tech ica l ati A ad

U it: N be f Sta da d

	2010	2011	2012	2013	2014	2015	2016
N be f Sta da d	79	28	22	59	104	62	91
Of hich: I te ati a	0	1	1	1	3	2	2
Nati a	30	15	5	8	35	36	57
I d t ia	49	12	16	50	66	24	32

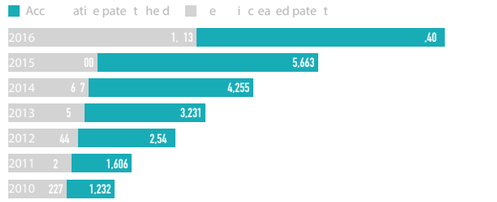
2010-2016 App icati a d G a ti g f Pate t

U it: N be f app icati a d pate t

	2010	2011	2012	2013	2014	2015	2016
Ne pate t app icati	514	630	766	1262	1571	1568	2156
Of hich: i e ti pate t	173	170	228	373	531	566	880
Ne g a ted pate t	420	487	729	848	1318	1492	1793
Of hich: g a ted i e ti pate t	54	80	143	128	106	193	455

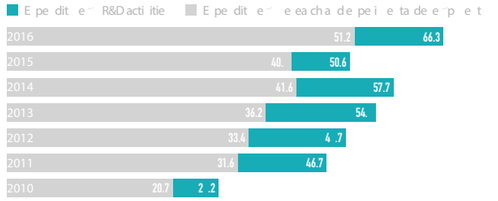
2010-2016 Acc ati e Pate t He d

U it: N be f pate t



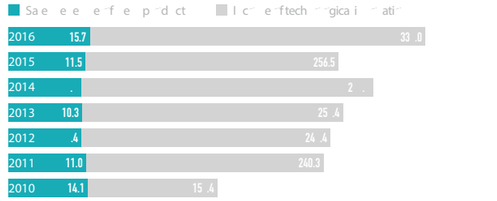
2010-2016 E pe dit e R&D Acti itie

U it: RMB 00 i i



2010-2016 I c e f Tech gica l ati

U it: RMB 00 i i



Our Active Sustainable Development Goals (SDGs) of the United Nations

On September 25th, 2015, the United Nations formally approved 17 sustainable development goals, comprehensively promoting economic, social and environmental development through 2015 to 2030 by taking the path of sustainable development. As a member of the China Federation of the UN Global Compact, CNBM operates with the UN SDGs, actively implements the sustainable development path in the building material industry. In 2016, we prepared the 17 of the goals with the central government's performance.

1 No Poverty

Targeted poverty alleviation and assistance

- RMB **14.7** million was spent to help and reward special groups of employees
- **11,608** person-times of special groups of employees received help and rewards
- The donation amount hit RMB **24.0** million
- We targeted **5** districts and counties for poverty alleviation
- RMB **11.5** million was invested in poverty alleviation
- The input of voluntary activities reached about RMB **3.4** million
- **28,000** hours of voluntary services were provided by our employees

Tackling climate change, achieving effective carbon dioxide emissions reduction, adopting sustainable energy technologies

2 Zero Hunger

3 Good Health & Well-being

Green health initiatives adopted to well-being for all ages

- **342,000** person-times of employees received training in occupational health and safety
- About RMB **800** million was invested in occupational health and safety
- The completion rate of physical examinations of employees reached **96.0%**
- **0** production safety accidents occurred
- The recordable injury rate per 1,000 employees was decreased by **44.4%** on a year-on-year basis
- **0** new cases of occupational diseases
- We organized **228,000** person-times of employees to participate in various cultural and sports events

Three inclusive and sustainable education and professional training initiatives for all

- Our employees attended training for **3.3** million hours
- We supported our employees in gaining **3,028** academic degrees
- We provided **8** special scholarships
- We provided scholarships amounting to about RMB **370,000** in total
- We created **134** probation bases
- We offered **34,030** learning posts to students

4 Quality Education

5 Gender Equality

Achieve gender equality and empower all women and girls

- The ratio of the average salary of male employees to that of female employees was **3.3:1**
- The number of female employees reached **46,000**
- In management, females take up a proportion of **18.3%**

6 Clean Water and Sanitation

Ensure availability and sustainable management of water and sanitation for all

- Consumption of fresh water per RMB 10,000 of output value was reduced by **13.9%**
- Consumption of fresh water per ton of cement clinker was reduced by **17.4%**

7 Affordable and Clean Energy

Ensure access to affordable, reliable, sustainable and modern energy for all

- The installed capacity of cogeneration reached about **2,025.3** MW
- The annual generating capacity of cement cogeneration reached about **8.7** billion kWh

8 Decent Work and Economic Growth

Promote inclusive and sustainable economic growth, employment and decent work for all

- The total number of employees reached **234,511**
- The number of new employees hit **22,000**
- The coverage rate of labor contracts hit **100%**
- The coverage rate of social insurance hit **98%**
- The proportion of employees joining the Trade Union reached **91%**
- **22,871** employees were covered by corporate pensions
- **602** member companies carried out employee satisfaction surveys

9 Industry, Innovation and Infrastructure

Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation

- **12** energy-saving and environmental protection service institutions
- **1** national carbon market capacity development building materials industry training base
- **9** cement production lines with the collaborative treatment of solid waste

10 Reduced Inequalities

Reduce inequality within and among countries

- The employment rate of ethnic minorities reached **2.5%**
- The proportion of employees with disabilities reached **8.0%**

11 Sustainable Cities and Communities

Make cities and human settlements inclusive, safe, resilient and sustainable

- We have built **54** new building materials bases
- Our energy-saving and environmental protection new housing businesses cover **39** countries

12 Responsible Consumption and Production

Ensure sustainable consumption and production patterns

- The treatment rate of solid waste reached **88.6%**
- The rate of responsibility-based procurement hit **94.8%**
- Expenditure on R&D activities amounted to about RMB **6.6** billion
- RMB **33.9** billion was recorded from the sales of new products
- The income from technological innovation reached RMB **1.6** billion

13 Climate Action

14 Life Below Water

Conserve and sustainably use the oceans, seas and marine resources for sustainable development

- The recycling rate of water hit **93.7%**

15 Life on Land

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

- We had **9** state-level green mines
- The average greening rate of plants was **16.1%**
- About **150** million tons of solid waste was treated

16 Peace, Justice and Strong Institutions

Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels

- **156,000** person-times of employees participated in legal publicity and
- The performance rate of business contracts reached **98.9%**
- **91.7%** of the proposals of the Workers' Congress were handled and settled
- Our coverage rate of collective bargaining and contracts was **27.4%**

17 Partnerships for the Goals

- The hiring rate of local employees reached **64.8%**
- We joined **3** international organizations related to social responsibilities and sustainable development
- We have established **166** overseas enterprises and institutions
- Nearly **55,000** person-times of employees participating in communication with external stakeholders

I dicat~ I de (CASS-CSR3.0)

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	P1.3	B~ da ie ~f ep~t	C~e 2
	P1.4	Rep~t te	C~e 2
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	E2.18	Pa a dacti f ed cti f ge e h ega e i i	P26	C e
	E2.19	E i i a de i i ed cti f ge e h ega e	N ti c ded i the tati tic te	E te ded
Gee p d ct	E3.1	P p ti f ppie pa i g ISO 14000	P70	C e
	E3.2	Mea e t i p ee i e t a p tecti a a e e a d capabi it f ppie	P30	E te ded
	E3.3	N be f ppie ece i g pe a tie ea ted t e i e t a p tecti , a d be fpe a tie	N ti c ded i the tati tic te	E te ded
	E3.4	S pp t f R&D a d a e f ge e -cab p d ct	P28-29	E te ded
	E3.5	Mea e a d pe f a cei a tep d ct ec ci g	P26	C e
	E3.6	P icie a d pe f a cei i i ati a d ec ci g f packagi g	P30	C e
Gee ec g	E4.1	P tecti fbi gica di e it	P24	C e
	E4.2	P tecti f at a habitat , eta d , f et , idifec id a dagic t a a dd i gc t cti	P24,26	E te ded
	E4.3	Ec gica e t ati a dg e a ce	P24,26	E te ded
	E4.4	Rate fec gica e t ati a dg e a ce	N ti c ded i the tati tic te	E te ded
	E4.5	P bic efa eacti itie f e i e t a p tecti	P25	C e
Pat6 Rep t P t c ipt (A Se ie)				
	(A1)	F t epa : C p ate pa i g cia e p ibit k	P5, 66	C e
	(A2)	Rep t E a ati : E a ati fep t b cia e p ibit i d t e pet , e e a ti e e ted pa tie p fe i a ga iati	P92	C e
	(A3)	Refe e ce l de : Appicati fi dicat e ied t be di c ed b the G ide i e	P88-91	E te ded
	(A4)	Feedback: e ti ai e f eade ' pi i a d feedback cha e f eade ' pi i	P93	C e

Rati g Rep t

Feedback

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