

# 2018 Corporate Social Responsibility Report

CHINA LONGYUAN POWER GROUP CORPORATION LIMITED



# NOTE ON THE REPORT

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Clarification

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乔保平

# MESSAGE FROM THE CHAIRMAN

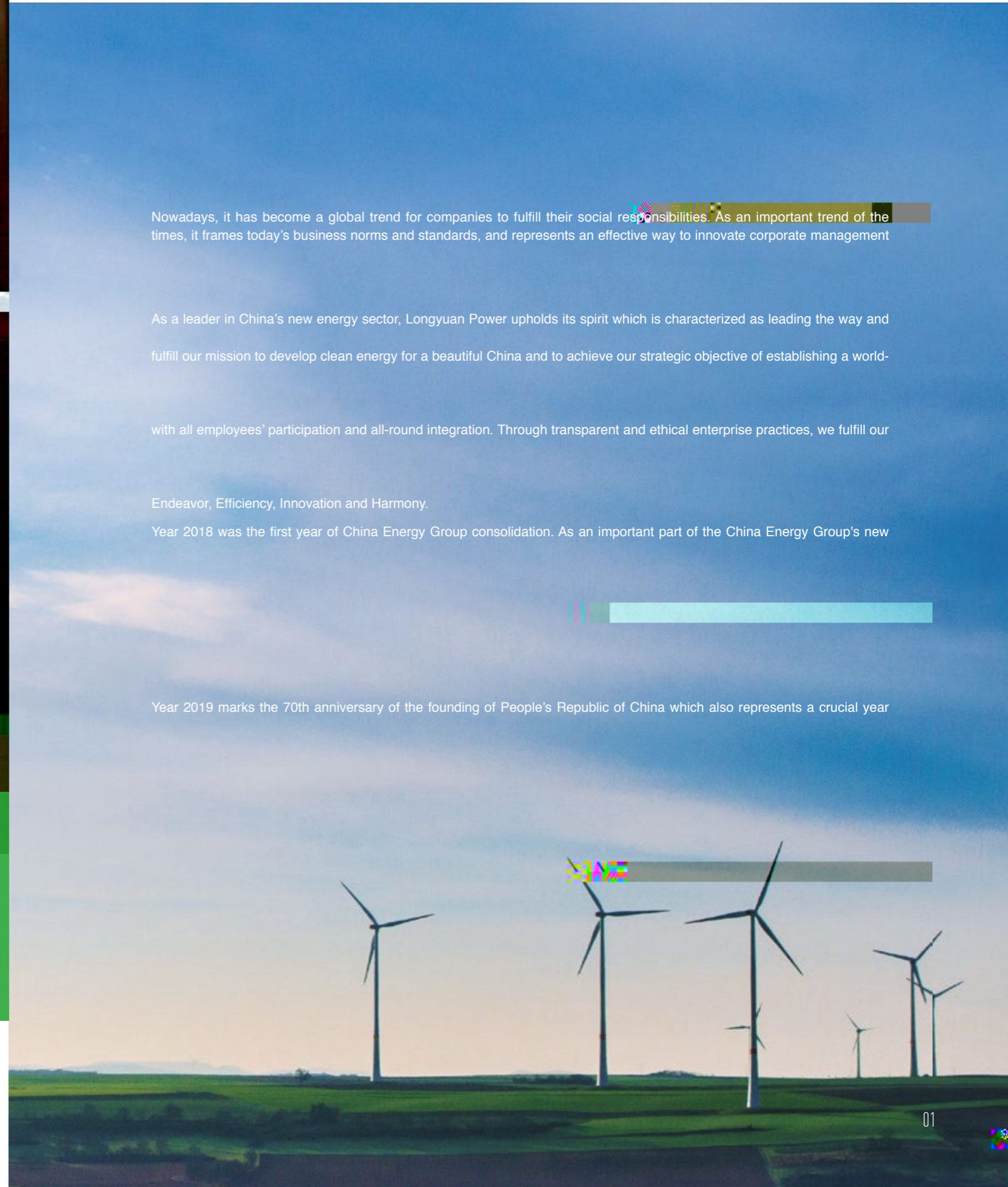
Nowadays, it has become a global trend for companies to fulfill their social responsibilities. As an important trend of the times, it frames today's business norms and standards, and represents an effective way to innovate corporate management

As a leader in China's new energy sector, Longyuan Power upholds its spirit which is characterized as leading the way and fulfill our mission to develop clean energy for a beautiful China and to achieve our strategic objective of establishing a world- with all employees' participation and all-round integration. Through transparent and ethical enterprise practices, we fulfill our

Endeavor, Efficiency, Innovation and Harmony.

Year 2018 was the first year of China Energy Group consolidation. As an important part of the China Energy Group's new

Year 2019 marks the 70th anniversary of the founding of People's Republic of China which also represents a crucial year



Longyuan Power is one of the first companies to develop new energy which leads China's wind power industry for a long  
carried out the essence of new-year and mid-year work conferences, firmly adhered to the general work guideline of making  
efficiency, resulting in increased profitability, lead utilization hours in districts, continuous optimization of energy layout and

comprehensively implement China Energy Group's working arrangements. We will propel our exemplary social responsibility



MESSAGE  
FROM THE PRESIDENT



# CO O A E OFILE

Administration of the PRC and became an affiliated corporation of former Ministry of Power  
affiliated to China Energy Group and a pioneer specialised in wind power development in

# KEY PERFORMANCE



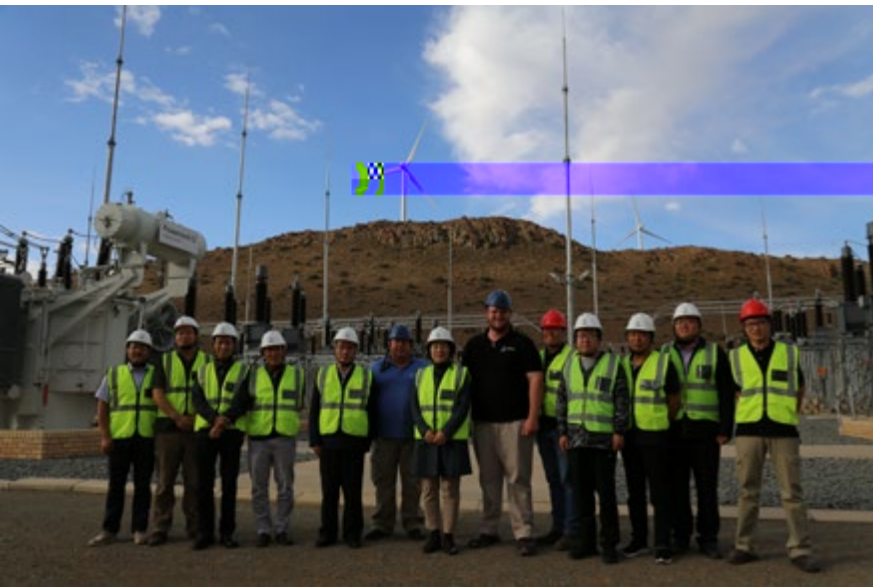


E ON IBILI,  
FEA E



01/





On November 30, 2018, employees of the company's safety supervision department went to De Aar wind farm in Longyuan South Africa for safety inspection.

accumulating five-million-yuan expenditure in 2018.



Appreciation Letter from Local School.

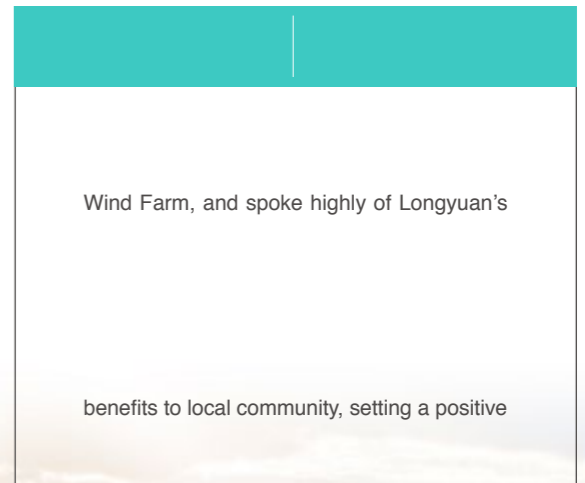
02/



Letter of Acknowledgement from Municipal Government.

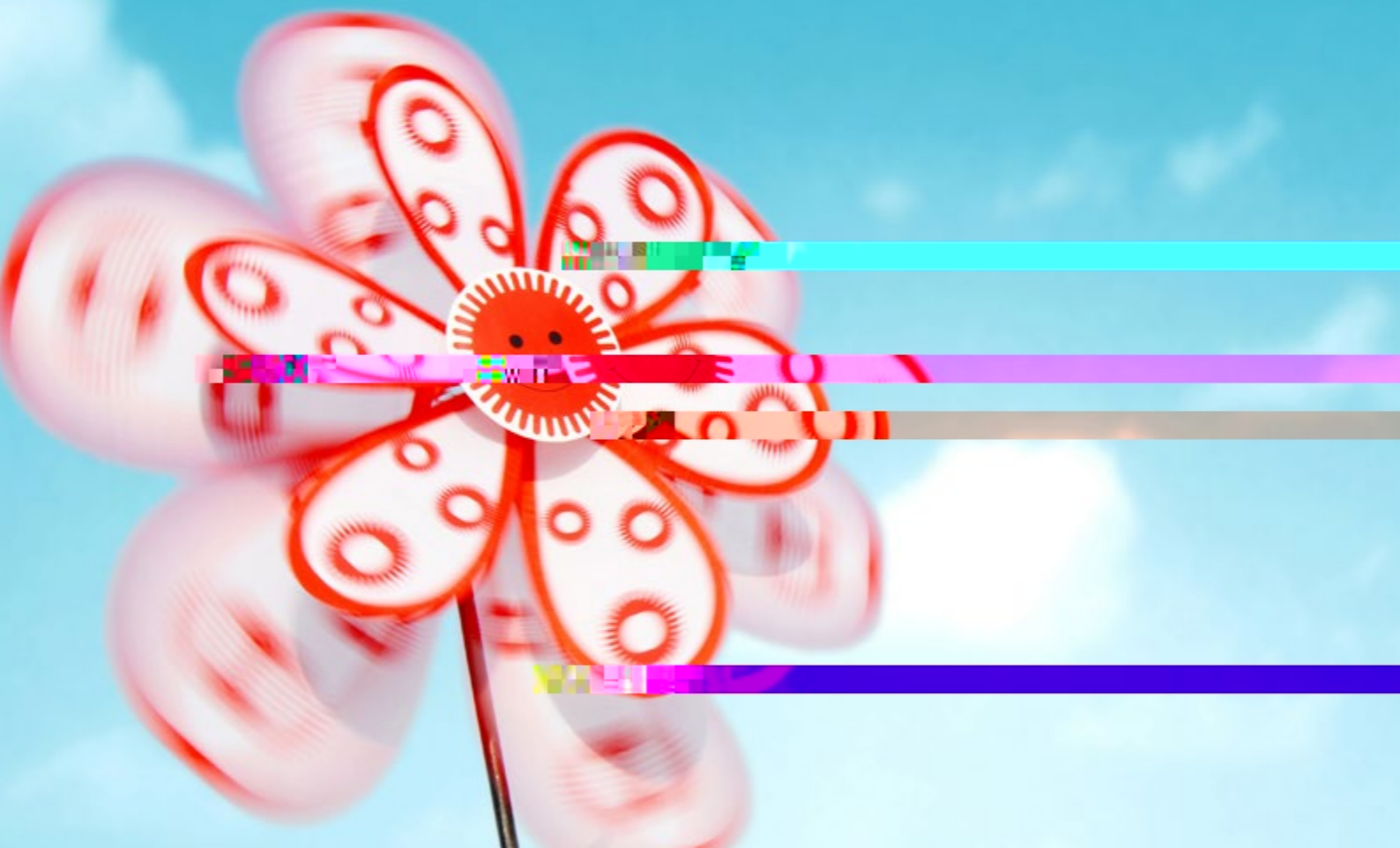


All electric transmission and transformation equipment are procured locally, increasing job opportunities for equipment manufactures and local community.



aboriginal tribes, setting up a good image of fulfilling its





# E ON IBILI, MANAGEMENT,

As a leader in China's new energy sector, Longyuan Power upholds its spirit

all employees' participation and all-round integration. Through transparent

awareness, fostering a core value featuring Endeavor, Efficiency, Innovation



01/

02/

Longyuan Power regards fulfilling its social responsibilities



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02/

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01/

Stakeholders	Government & Shareholders	Employees	Customers	Partners	Social Institutions	Community
Target & focus	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>● Maximize shareholders' long-term benefits</li> </ul>	<ul style="list-style-type: none"> <li>● Guarantee their rights and benefits</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>● Provide sufficient, stable, safe, and</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> </ul>
Communication channels	<ul style="list-style-type: none"> <li>●</li> <li>● Assert positive influence on public</li> <li>●</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>● Seek for customers' opinion</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>
Major actions	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>● Insist on employees' occupational</li> </ul>	<ul style="list-style-type: none"> <li>● Refine quality management system</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>
Key performance indicators	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> <li>●</li> <li>● Donations to employees in difficulties</li> </ul>	<ul style="list-style-type: none"> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> </ul>	<ul style="list-style-type: none"> <li>●</li> <li>●</li> </ul>






# FULFILL ECONOMIC RESPONSIBILITY

Longyuan Power's sustainable development cannot be achieved

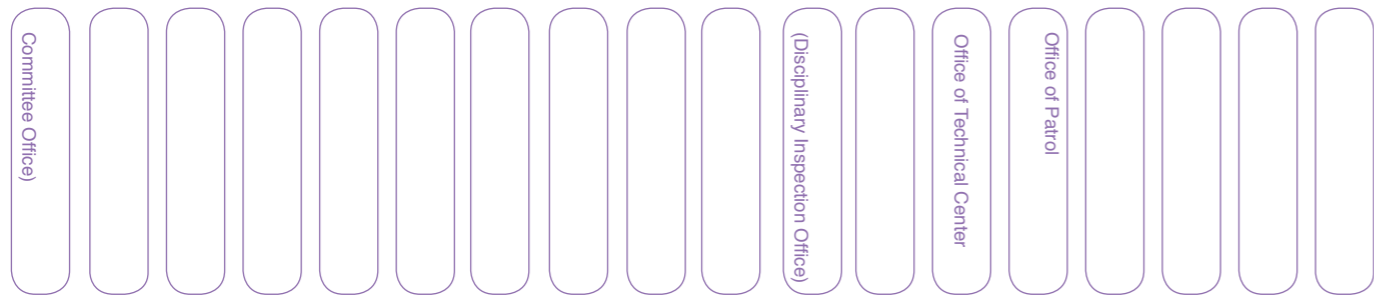


shareholders' investment, constructs a solid corporate governance structure, and builds a

## 01/

information such as major business decisions, financial performance and social practice activities

increase of 7.9%. The net profit attributable to equity holders of the Company was



# 05 /

positive voices to enhance the confidence from the capital



Responsibility on customers means that we are responsible to our clients. We exploit our professional capacity to provide excellent products and services to our clients as our commitment to fulfill our responsibility on customers. Longyuan Power has enhanced customers' satisfaction with quality services through scaled development, delicacy management and efficient operation in the process of developing and constructing new energies.

# 01 /



Longyuan Fujian Company Wind Farm.



Groundbreaking Ceremony to launch Longyuan Qinghai Company Haixi Xitieshan 50MW Wind Power Project 110KV Power Transmission Line Project.



Longyuan Jiangsu Offshore Area Company Dafeng H4#300MW Offshore Wind Power Project Review Meeting.

CLASSIC CASE

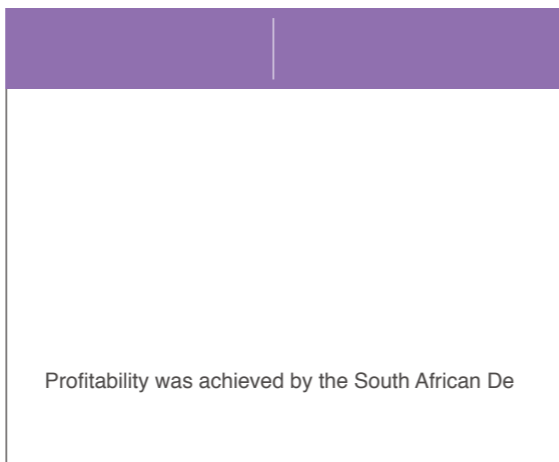
Highest Record of Approval for One Province



Jiangjiasha Offshore Booster Station.

specific project exchanges, the company works out an

market strategy which integrates greenfield investment, greenfield development and acquisition of projects under



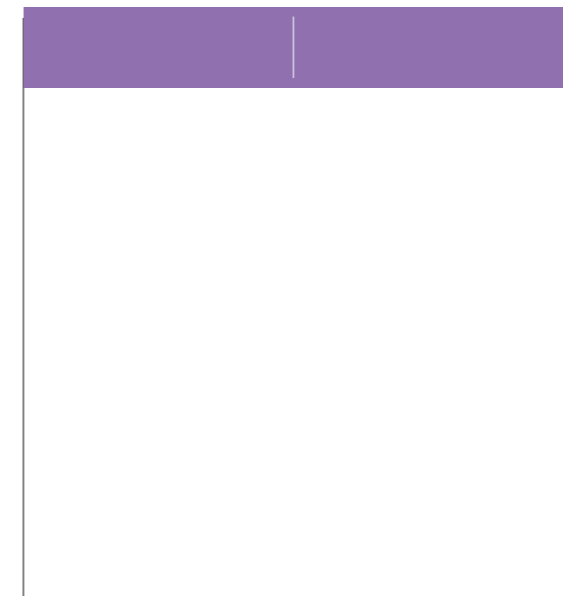
Profitability was achieved by the South African De

02 / Scientific and Innovative

CLASSIC CASE

Company's Longest Single Pile Sinking Record

conducts continuous, scientific and lean management, and



with high quality and efficiency, and continues to lead the

CLASSIC CASE



Set the fastest construction record of domestic offshore wind power single pile foundation

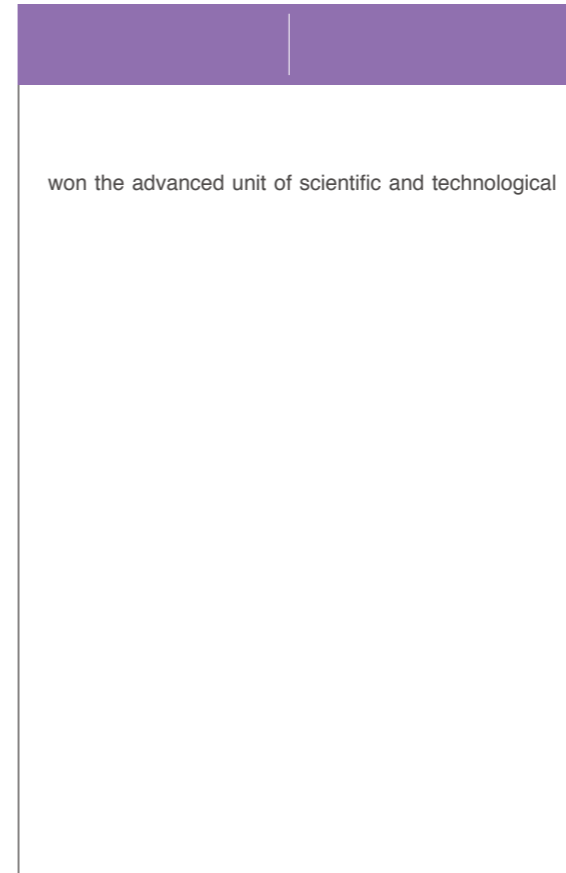
single pile foundation of the first phase of Putian



efficient corporate operation.

On July 5, 2018, data analysts in Longyuan Hebei Company Monitoring and Data Center relied on Chengde's circuit diagram to explain in detail the distribution principle in on-grid energy, for power plant and the power loss of wind farm projects in Chengde which improves data analysis ability.

### 03 / Robust and Efficient Operation

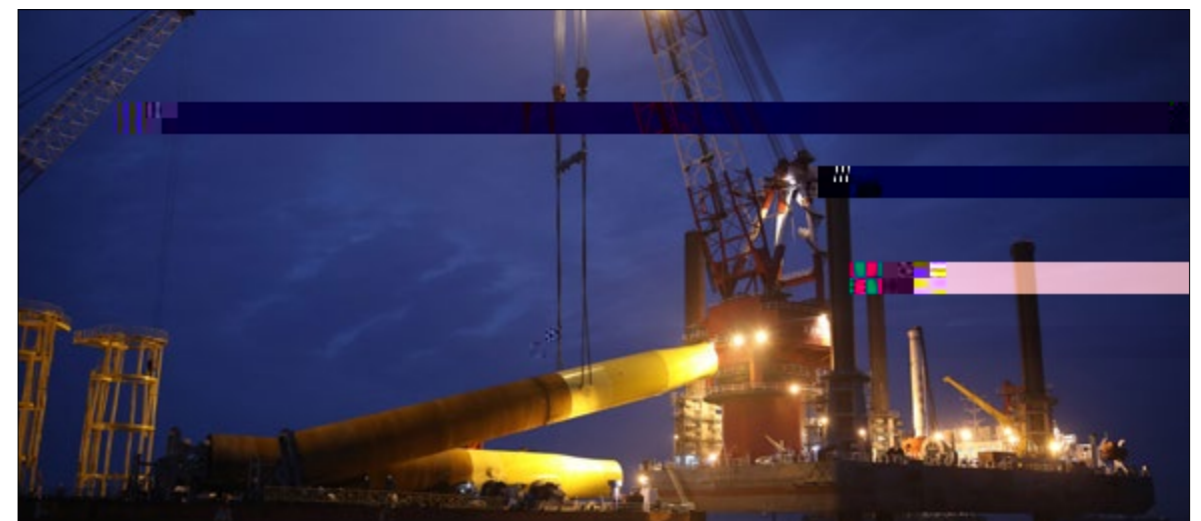


won the advanced unit of scientific and technological

In May 2018, "a lubricant cooling system for gearboxes" project of Longyuan Shanxi Company received the "utility model patent certificate" from the State Intellectual Property Office.



many of which are among the world's first.



mutual benefit and all-win relations in line with the principle of equality, respect and integrity while

02 / Keep Promise and Fulfill Agreement

03 /

CLASSIC CASE



In October 2018, the exchange activities of wind farms in Jiangsu, Zhejiang and Shanghai district was co-hosted by Longyuan Shanghai, Longyuan Zhejiang and Longyuan Jiangsu Company.



On November 12, 2018, the North Korea National Academy of Sciences visited the Longling Power Wenling Jiangxia Chaoshan Experimental Power Station.

01 /

partners, the Company strictly abides by the principle of fair trade, effectively regulates the pre-qualification procedures, and conducts interactive exchanges, inspections and confirmations of the cooperative units in a fair and impartial manner.

bidding system, construction supervision systems and procedures, giving each qualified supplier equal opportunities for



# FULL SOCIAL RESPONSIBILITY

actively participates in social welfare, earnestly fulfills social responsibilities

Responsibility on Government is to take responsibility for the government. Longyuan Power continues to strengthen the construction of a clean and integrity administration, adheres to practicing integrity, comprehensively improves the ability to govern enterprise in the rule of law, actively abides by national energy rules and related policies, safeguards the safe and stable supply of electric power, and strives to take on due responsibilities for the government, thus creating a good corporate atmosphere of integrity and legitimacy which provides an important guarantee for the corporate's healthy development.

## 01 /

The Company insists on studying and implementing Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era and the spirit of the 19th CPC National Congress as the primary political task. We comprehensively and strictly implement the responsibility system for Party-building and innovates to form a "Standardization + Informationization + Systemization" Party-building work pattern. We should vigorously improve Party conduct and uphold integrity, incorporate the construction of integrity administration and combating corruption into daily operation and management, strengthen supervision and discipline, promote the construction of an integrity culture, and adhere to practicing integrity. Promoting Party-building and the construction of integrity administration provides a strong political, ideological and organizational guarantee for the healthy development of the Company.

tough actions against the practice of formalities for formalities' sake, bureaucratism, hedonism, and extravagance, and timely handled the problems found.

The Company carried out the study and publicity of "Liangjiahe". Staff from headquarters and some units went to Liangjiahe to study in the field.

Cadres and workers of the Company watch educational films specials such as " Amazing China " and "Model 3".

Staff in Beijing units of the Company visited a large-scale exhibition Great Change for celebrating the 40th anniversary of China's reform and opening up".

The Party committee of the Company incorporated the responsibility system for Party building into the annual responsibility work plan for the first time,

units responsible by party members and 524 Model positions as well as 143 teams for shooting difficulties of party members, fully harness the roles of

CLASSIC CASE

**Demonstrating Clean and Integrity Administration Through Riddles, Verse, Drawings and Models**

In response to the Company's call for the enhancing business operation and management through the Party building, the Company promoted corporate culture, created an honest, clean and harmonious administrative atmosphere, and raised awareness of integrity of all cadre staff. On March 2, 2018, events to celebrating Lantern Festival featuring demonstrating clean and integrity administration through riddles, verse, drawings and models were held by the Longyuan Power Discipline Committee and cohosted by Party Committee and Discipline Committee of Longyuan Carbon Assets.



In order to implement the China Energy Group's Developing Energy under the Rule of Law strategy and further strengthen the culture of the construction of the rule of law. In 2018, the Comm... á h M á un ru of.



The opening of the New Era Workers' Workshop is an important Party building task deployed by the State-owned Assets Supervision and Administration Commission of Liaoning Province. It is an important platform for Longyuan Liaoning Company to thoroughly study and publicize and implement Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era and the spirit of the 19th CPC National Congress.

Longyuan Heilongjiang Company conducted the activity of rule of law lecture.



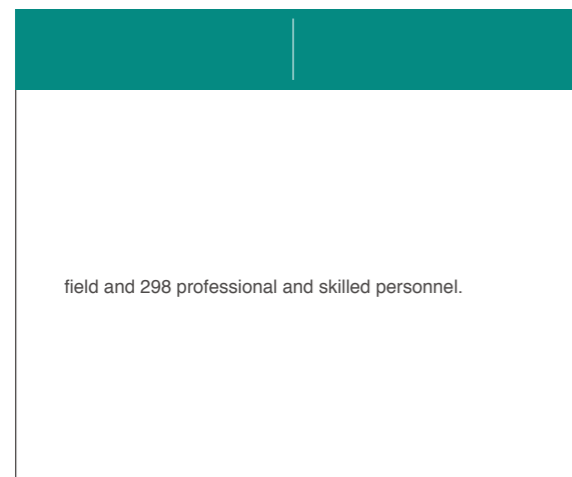
Longyuan Jiangsu Company organized employees to carry out constitutional oath.



## 03 /

The Company attaches great importance to the cultivation and development of talents, optimizes the selection and employment mechanism, optimizes the construction of the talent team, improves the professional development system of the three teams of "administration, technicians and technical staffs", increases the training of outstanding young cadres, continuously optimizes the structure of its own corporate leadership team, and provides employees with a broad career development platform to motivate employees to grow into success.

The Company constantly adapts to the needs of development. Based on position responsibility system, the Company further improves the performance appraisal management mechanism of employees, adheres to the standardization of quotas, and promotes the standardization of the organization of enterprises and staffing. By decomposing the Company's annual key work objectives, the Company clarifies job performance goals, sets performance appraisal standards, objectively and accurately evaluates employee performance, and stimulates employees' potential and work enthusiasm. The Company enhances the correlation between income and performance indicators, implements dynamic process assessment, and effectively enhances the subjective initiative of all employees. At the same time, the Company actively implements the salary distribution to the on-site employees, employees in the remote areas, improves the subsidy standards for wind power enterprises in harsh areas, and mobilizes the enthusiasm of employee for entrepreneurship.



field and 298 professional and skilled personnel.

## 04 /

The Company continued to promote democratic management, and all its subsidiaries established a system of employee representatives. The second session of the Company's third-term representative employee assembly collected 84 proposals for employee representatives and 70 cases were filed, all of which were well implemented. The Company will improve the collective contract system for equal consultation, strive to build a harmonious labor relationship, and continue to promote the openness of factory affairs. The Company's labor union work exchanged experiences at the first labor union work conference of the China Energy Group. The Company will continue to broaden the channels for rationalization proposal from employees, and fully mobilize the enthusiasm and initiative of all employees to be dedicated.



On March 22th 2018, Longyuan Power held 2018 Labor Union Conference and Team Building Promotion Meeting.

## 05 / Implement Projects that Benefits People

The Company continues to deepen the green care activities by improving the working environment and living conditions of the production line and broadening recuperation system of the labor model for frontline workers in the hardship areas. The Company implements the medical examination system for employees, makes effort to prevent, control and eliminate occupational disease hazards, improves the health records system of employees, promotes the mental health care for employees, and ensures the occupational health of employees. The Company establishes a "Sunshine Benefit Welfare Plan" to provide employees with major illness insurance. The Company implements the employee mutual fund system in depth and continues to increase the assistance of employees. The Company revises and improves the "Measures for the Management of Labor Union Funds", reduces the proportion of staff fees, and better serves the grassroots unions and workers. The Company carries out Bring Warmth activities. The members of the Company management team went to the frontline to visit and condolences labor models, retired employees and the ones who are in hardship. The benefiting project has been continuously implemented in depth and enhanced the sense of belongings and corporate cohesion.

Data of Benefiting Staff 2018	



Longyuan Hebei Company organized a seminar on employee health knowledge.



Longyuan Hubei Company conducted fundraising for external employees in hardship.

# 06 /

The Company established a sound cultural and sports association for employees, participated in the first basketball competition and cultural performance of the China Energy Group, carried out "the celebration of the 40th anniversary of reform and opening up", "Welcome the New Year Carnival", "Youth New Achievements Speech", micro-drama works, staff photography calligraphy and painting works, fitness campaigns and other cultural and sports activities that are conducive to physical and mental health. The Company constantly enriches the cultural and sports life of employees, activates work atmosphere, enhances the sense of belonging of employees, enhances corporate cohesion, and forms a situation of common development and harmonious win-win between employees and enterprises.

## CLASSIC CASE



### Building the homogenous culture of Longyuan Power

In 2018, Longyuan Power promoted the use of the VIS corporate culture logo of the China Energy Group, summed up the successful experience of the company for 25 years, and refined the homologous culture characterized as same roots, common goal, concerted effort and shared will. The "Longyuan Power Enterprise Culture Handbook" was compiled and produced, and corporate culture videos were produced to enhance the soft power of the Company. The Company was awarded the title of "Model Unit of Enterprise Culture Construction in Power Industry".



### The Company held the fourth staff basketball game

In September 2018, the Company held the fourth staff basketball game in Shanxi. 315 staff from 33 teams participated in the competition. The competition was divided into four stages: group round games, knockout phase, semi-final and final. During the competition, the teams fought fiercely, and the scenes were wonderful. All the athletes played hard and fully demonstrated the good spirit of the young workers.

### Longyuan Mengdong Company held the "Youth Contribute for the New Era" keynote speech contest

On October 18, 2018, the Youth League Committee of Longyuan Mengdong Company held the "Youth Contribute for the New Era" keynote speech contest, which encouraged the youth of the group members to share their experiences of improving themselves combined the typical exemplary deeds around them, and to share their devotion in practice of corporate reform and development on the basis of making achievement in their positions while integrating company's innovative and effective endeavors, for the sake of making contributions for the healthy and stable development of the company.



### Longyuan Jiangsu Maritime Company launched the "Pottery Culture Crafting Life" activity

On March 8, 2018, the Longyuan Jiangsu Maritime Company Union organized female employees to carry out the activity of Pottery Culture Crafting Life. This activity not only expressed the care for females from the unions, but also enriched everyone's life, cultivates sentiment, exercises craft ability and innovation ability, and at the same time strengthened female employee's recognition of traditional culture and promotes Chinese ceramic culture.



### Longyuan Gansu Company launched the Autumn Workers Fun Games

In September 2018, Longyuan Gansu Company launched the Autumn Workers Fun Games. More than 250 people participated in the event. This novel recreational event integrates fun and sports to spur working enthusiasm of staff which enriched corporate cultural activities and enhances staff physique and cohesiveness, playing a positive role on cultivating excellent corporate culture.



The Company has established a broader definition of safety which bears in mind that safety is the first responsibility, enhances the foundation of Safety production, comprehensively seeks vulnerable spots, eliminate safety hazards, and continuously strengthens Safety production management. In 2018, the Company took perfection of production management system as the basic principle with the method of the system research, safety measures implementation, Safety and civilized production standardization construction, professional training, equipment management, further implemented the closed loop management process and improved work effectiveness, solidly promoting various work of Safety production. During this year, the Company had no employees who died due to accidents accounting for 0% of the total number of employees with zero workdays lost.



On July 12, 2018, the maintenance personnel of Xinghe Wind Farm of Longyuan Inner Mongolia Company carried out the warning and marking paint for yellow and black in accordance with the requirements of safety and civilized standardization.



In order to prevent the occurrence of major safety production accidents, further enhance the safety production awareness and self-protection ability of the employees, promote the further standardization of safety production work, and urge the employees to memorize the safety production knowledge, Longyuan Shaanxi Company organized the 2018 annual safety knowledge contest which achieved good results.

## 01 /

The Company firmly establishes the safety concept of life first and safe development, adheres to the bottom line thinking, strictly observes the safety red line, strengthens the implementation of safety main responsibility, strengthens the standardization of Safety and civilized production, holds a safety knowledge contest for all employees, and conducts safety skills training and safety knowledge examination. The warning day activities are organized with the theme of "strictly punishing violations and strictly preventing accidents" in the whole system, building a safety culture guarantee, and continuously improving the safety awareness and ability of all employees.

On October 29, 2018, Yongyuan Wind Farm of Longyuan Jilin Company invited professionals to give lectures on high-altitude rescue and escape knowledge on their self-built escape express and conducted drill.



## 02 /

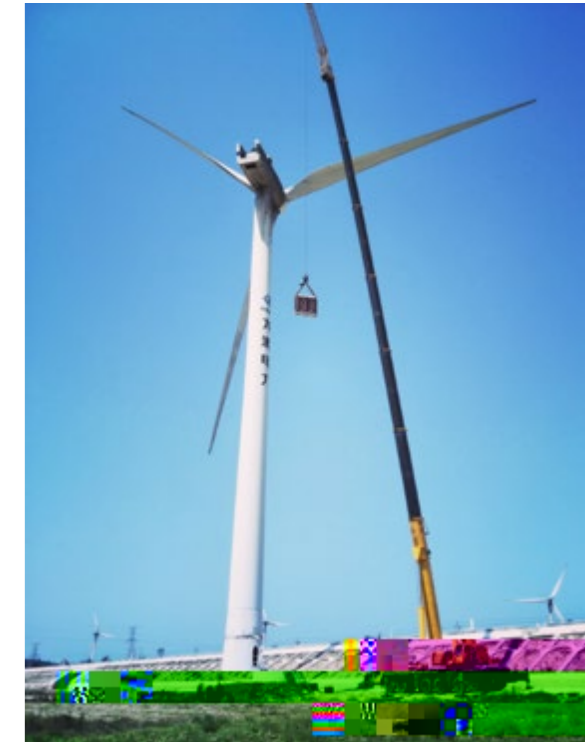
The Company formulated the "Safety Supervision and Assessment Measures", standardized the assessment work, and seriously held accountability for all kinds of misconduct. The Company compiled the safety supervision work system which covers more than 60 of the latest safety regulations, providing institutional guarantee for safety supervision. The Company revised the "Wind Power Production Safety Control Analysis Form", promoted the risk pre-control system, and added 49 safety risk points and pre-control measures to effectively reduce the risk of accidents such as personal injury and equipment damage. The Company improved the standardization management system for wind power equipment maintenance, refined the various maintenance cycles, processes and standards at all levels, and continuously improved the maintenance management level.



In order to further strengthen the operation status management of wind turbines, timely identify and eliminate hidden defects and ensure the safe and stable operation of wind turbines, the Longwan Hebei Company Dongwan Wind Farm inspectors cleaned and maintained the fan inverters on March 22, 2018

## 03 /

The Company has intensified safety inspection and rectification efforts, strengthened safety supervision and inspection, comprehensively investigated safety hazards, clarified responsible persons for rectification, supervised problems to deal with closed-loops, and resolved deep-seated problems affecting safety. The company conducted safety inspections and safety evaluations on onshore and offshore wind power, photovoltaics, geothermal, biomass, tidal power projects, etc., collected key problems exposed in recent years and safety hazards found in evaluations, took records, supervised rectification, ensured closed-loops, and constantly improved the level of safety supervision.



Longyuan Fujian Company Pingtan Wind Farm carried out the work of replacing the transformers of the unit to ensure the sound operation of the unit.



On July 18, 2018, Longyuan Safety Supervision Department went to Guohua Investment Corporation Tongliao Company to conduct a safety and environmental protection check.



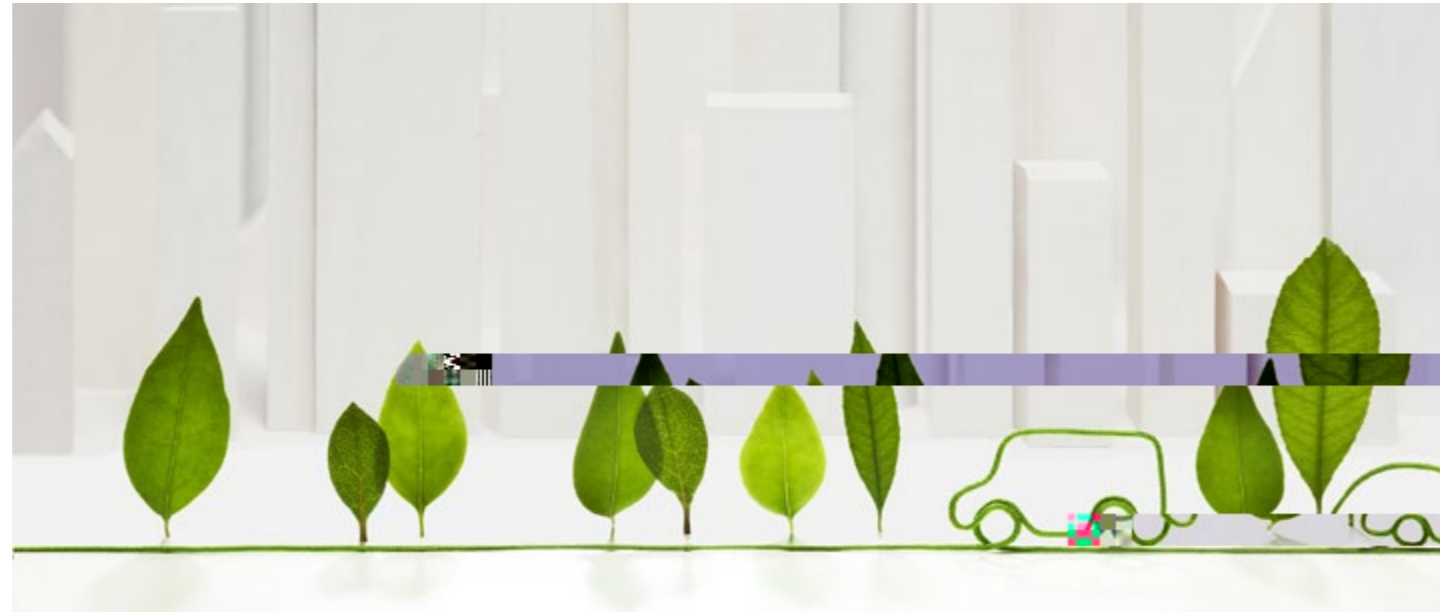
On October 24, 2018, Longyuan Safety Supervision Department went to the Longyuan Shanxi Shuangjing Wind Farm to carry out the autumn safety inspection.

## 04 /

The Company has compiled 13 main types of electrical operation safety manuals and developed effective protective measures to reduce operational risks. The technical transformation of faults such as G58 and Sinovel was carried out to improve the safety and reliability of the equipment. A comprehensive investigation was conducted for the centralized faults of old models, accurate diagnosis was carried out, and the rectification plan was formulated. The stability of the unit was further improved, and the equipment operation efficiency was continuously improved.



Longyuan Neimenggu Company enhance their equipment defect treatment as shown in the picture of Saiwusu wind farm booster station.



### CLASSIC CASE

#### Organize the National Poverty Alleviation Day Theme Event

The Company adheres to the basic strategy of "precise poverty alleviation and green poverty alleviation", which is precisely orientated and pays attention to reform and innovation to continuously enhance targeted poverty alleviation. In 2018, the Company implemented the State Council's "Poverty Alleviation Day" spirit and actively organized National "Poverty Alleviation Day" theme event which received a total of 406,125 yuan from 3,004 employees from the company headquarters and 36 units. The funds have been credited to the China Energy Group's poverty alleviation fund account, contributing to China's poverty alleviation and local economy.



Longyuan Power adheres to the principle of "developing enterprise and nurturing society in synchronization", and actively fulfills its obligations in serving the local economy, participating in charitable activities and devoting itself to volunteering services. The Company takes on the corporate responsibility, participates enthusiastically in social welfare undertakings, and strives to make more contributions to the harmonious development of society.

## 01 /

Everything is about people's livelihood, therefore, do not fail to commit an act of kindness just because it is small in scale. The Company vigorously implements localized operation, establishes regular communication and exchange mechanism with local representatives in the process of project development, construction and operation, tries to strengthen the contact with local governments, maintains good communication with local competent authorities, actively adopts reasonable suggestions of local governments, enterprises and residents, improves local infrastructure, shares welfare facilities of the company with local communities, promotes local energy development, and promotes the healthy development of local economy.

#### The Company promotes the successful poverty alleviation in Youyu County



Longyuan Youyu 1.4MWp Village-level Photovoltaic Poverty Alleviation Project - Maojialing 1110kW Photovoltaic Poverty Alleviation Liancun Power Station successfully connected to power grid

The Company established the "Youyu Green Ecological Protection Poverty Alleviation Fund" to carry out precise poverty alleviation measures such as green ecology, e-commerce, medical care and employment. In the first half of 2018, the Company invested 10 million yuan to build a 1.49 MW Youyu village-level poverty alleviation photovoltaic power station. In the next 20 years, it will help more than 400 poor families to increase their annual income by more than 3,000 yuan, which has effectively promoted the successful poverty alleviation of Youyu County. On August 9, the Shanxi Provincial Government issued a notice approving the withdrawal of Youyu from the poverty-stricken counties, which marked a major staged victory for the company's precision poverty alleviation work.

## 02 /

The Company participated in philanthropy activities with great passion and continues to promote the "Longyuan Green Care" program, winning trust and respect by its integrity, devotion and efforts for joint development, working hard to achieve the harmonious development of the enterprise and the society, and showing a good image as a responsible enterprise. In this year, Longyuan Power actively carried out work such as caring and dedication, disaster relief, aiding students and helping the disabled, and repaying the society through multiple channels.

### CLASSIC CASE

#### Longyuan Zhongneng Company launches public welfare theme Party day activities

On April 2, 2018, the volunteer team of Longyuan Zhongneng Company entered the Xicheng District Cochlear Surgery Training School to launch a special public welfare theme party day event. On the day of the event, the mutual learning and exchanges of the Party organizations were first carried out. In the subsequent volunteer activities, the young staff of the company's big data research team explained the green energy knowledge such as wind energy resources and wind turbine principle for the hearing-impaired children through carefully prepared demo pictures, cartoon videos, and interesting questions and answers.



#### Longyuan Guangdong Company organized A good clothes, A warm heart" donation

On June 22, 2018, the Party Branch of Longyuan Guangdong Company and the Blue Sky Society Public Welfare organized "A good clothes, A warm heart" Donation to encourage people to donate old clothes and send warmth to the poverty in mountain areas. All departments and wind farms of the company responded to the call and actively collected old clothes. The branch received a total of 174 donations from employees of the company and donated all of them to charity.



#### Longyuan Guizhou company Visited Senior Party Members

On October 16, 2018, Longyuan Guizhou Company cordially visited the 69-year-old Party member in Wuxing Village, Yinna Town, Weining County, upheld the mass line spirits of from the people and for the people. Through pairing and helping, the Guizhou company advocated "care for others, contribute to society, and not forget the spirit of the revolutionary predecessors" to the society, and carried forward the traditional virtues, so that the Party members and the masses of the company actually felt the responsibility from the state-owned enterprises and the warmth of the social family.



#### Mapengkou wind farm cope with spontaneous combustion of trucks

On December 28, 2018, a truck full of cargo was spontaneously ignited on the road near the Mapengkou Wind Farm of Longyuan Tianjin Company. The Mapengkou Wind Farm organized personnel to extinguish the fire in time to control the deterioration of the situation.



# 03 /

The Company strongly supports employees to provide volunteering services and establishes a standardized and effective volunteering service mechanism. More and more employees are encouraged to get involved in it, which gradually socializes the volunteering service of the company and attracts and drives more social forces to participate in volunteering service provision. In 2018, the Company's 37 volunteer service teams carried out 191 activities. Cai Chengpeng in Zhejiang company was awarded the "Electric Industry Leifeng Advanced Individual", and Zhang Enfu in Liaoning company was awarded the "Most Beautiful Shenyang Man" honorary title.

## CLASSIC CASE

### Special love for special you

In order to actively convey the positive energy of youth, on March 30th 2018, the Youth League Committee of Longyuan Mengdong Company organized the young employees of the Dafengche Volunteer Service Team to go to the Chifeng Special Education School to carry out the activities of 'Special love for special you at the special campus in the spring'. The volunteers brought special sports articles and ancient poetry copybooks to the teachers and students. They fully displayed the corporate image and the youth staff spirit, and played an active role in helping to manage and serve the society.



### Responsibility, Setting Up Images

In March 2018, the Longyuan Xinjiang Company Youth League organized volunteer service activity of Learning From Lei Feng, Helping Herders, Fulfilling Responsibility, Setting Up Images. The company volunteers explained the safe use of electricity to the herdsman which were welcomed by the herdsman's fellow villagers and established a good corporate image. The company's volunteer service team insisted on serving the electric field, serving the people in the pastoral areas, constantly improving the service organization and service content, actively carrying out various forms of volunteer service activities, making contributions on promoting the construction of socialist spiritual civilization and maintaining the stability of ethnic minority areas in the border areas.



### Longyuan Heilongjiang Company visited the nursing home

In March 2018, Longyuan Heilongjiang Company Huanan Mission Branch visited the nursing home to bring fruits and communicate with the seniors. With a high sense of social responsibility and dedication, Heilongjiang Company has launched volunteer service for many years, conducting closer ties between the company and the local community, setting up a good corporate image.





# — FULFILL ENVIRONMENTAL RESPONSIBILITY

fulfill environmental responsibility It makes efforts to shape the Company's

Longyuan Power strictly abides by the national unified environmental protection regulations and environmental protection policies, and actively assumes responsibility for energy conservation and emission reduction. There has been no violation of national environmental laws, regulations and policies during the year. Keeping the pace with the market development, the new project developed by the company not only save energy and reduce emissions, but also maximize its green benefits.

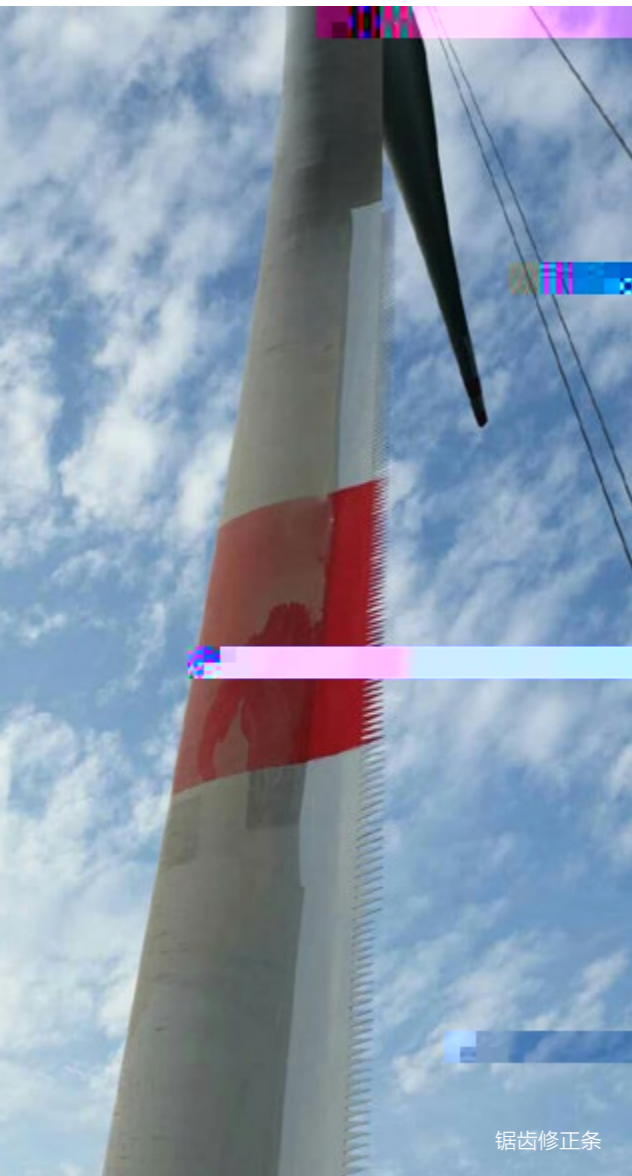


Longyuan Xinjiang Company Alashankou Party Branch actively carried out activities of "repairing old, recycling, reducing costs and increasing efficiency".

Clear waters and green mountains are as good as mountains of gold and silver. The Company has long adhered to the concept of green development, focusing on the development of clean energy, making clear the environmental management rules, strengthening environmental control, taking various measures to strengthen the environmental protection management in the construction and operation stages of the projects.

## 02 /

While effectively controlling noise and sulfur dioxide emission, Longyuan Power builds a clean development mechanism, implements green management, protects vegetation, enlarges the greening areas of the headquarters, affiliated enterprises and surrounding areas as much as possible, tries to deliver green power to the society, actively protects and improves the environment.



锯齿修正条

## 01 /

During the construction of wind farm, the company makes efforts for the repair and maintenance of equipment, maintains mechanical lubrication, reduces the operating noise of excavators, concrete mixers and bulldozers, and tries to reduce the noise caused by the repair and maintenance of construction equipment. After the wind farm is built, efforts are made to reduce the mechanical noise generated in the operation of wind turbine unit. The company's noise control in these two aspects can meet the daytime noise and nighttime noise requirements in Class I Standards of the acoustic environment quality standards (GB 3096-2008), without influence on the surrounding residents.

### CLASSIC CASE

#### Jintang Wind Farm Blade Noise Reduction

In June 2018, Longyuan Zhejiang Company attached great importance to environmental protection work, completed the noise reduction of the blade of Jintang Wind Farm, and installed the trailing edge of the blade with a sawtooth correction strip to effectively reduce the noise pollution of the wind turbine.

#### Planting "Longyuan Power Green Memorial Forest"

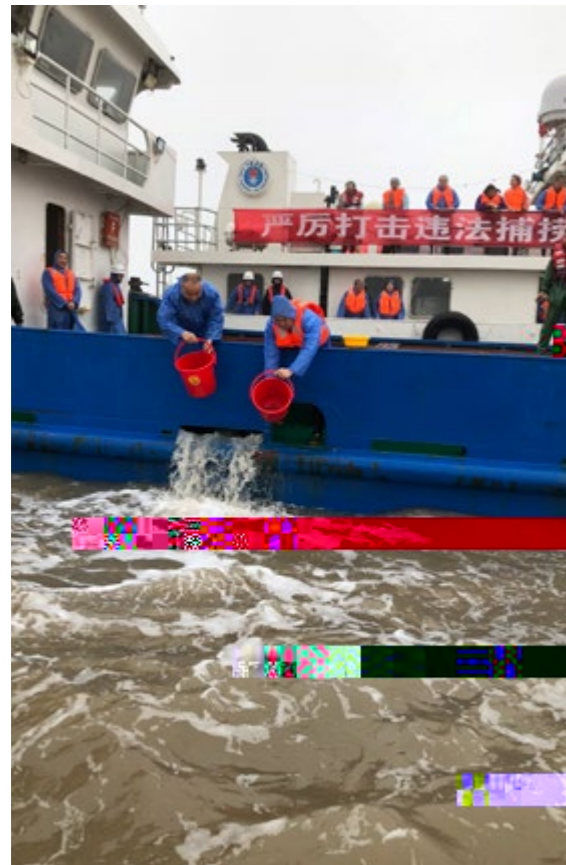
On May 5, 2018, the Party Committee of Longyuan Hebei Company organized themed tree planting activity to modeling Saihanba. All the cadres and workers volunteered to donate 78,200 yuan and planted "Longyuan Power Green Memorial Forest" 150 mu, establishing a good corporate image.



Biodiversity is the condition on which human beings rely for survival, the necessary guarantee of ecological security and the basis of sustainable economic and social development. Longyuan Power has always complied with the requirements of laws and regulations related to environmental protection, paid full attention to and considered the potential impact of the project on the surrounding environment, strictly carried out the preliminary environmental assessment of the project, carefully planned and implemented the vegetation restoration and environmental protection after project operation, so as to ensure that the ecological environment with reasonable structure and stable system was formed in the field.

Before the development and construction of the new wind farm, Longyuan Power organized professional institutions to conduct preliminary research; during construction, it focused on the integrity and protection of biodiversity in the protected areas, and strengthened the construction of ecological functional areas; after development, it consolidates and develops the achievement of land restoration to mountain and forest, continue to effectively protect and enhance the functions of forest and wetland systems.

In 2018, the Company continued to build and participate in a number of projects and activities to protect biodiversity, and continued to win the respect of the government and people where it operates.



## 01 /

In the construction and operation of offshore wind farm, Longyuan Power attaches great importance to the protection of marine fishery resources, and fry stocking is regularly adopted to improve the breeding and growth of fishes. At the same time, the Company closely observes the changes of biological resources in the reservoir area during the operation of tidal power station to protect the normal growth of related organisms.

### CLASSIC CASE

On May 6th 2018, Longyuan Jiangsu Offshore Company Jiangjiasha Wind Farm successfully conduct the artificial propagation and release invested about 1 million yuan to release more than 2.1 million large yellow croakers which was effectively guaranteed by a professional release "live water boat" to improve survival rate of large yellow croaker.

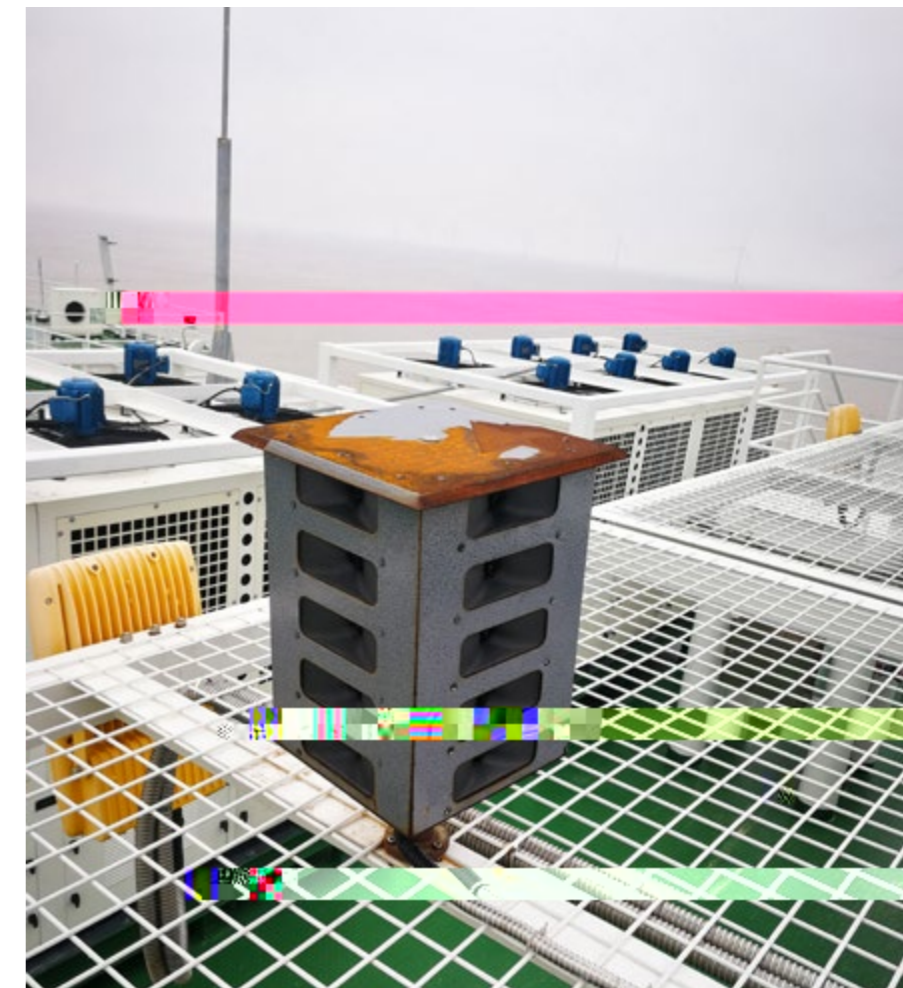
## 02 /

In the development and construction of wind farm, Longyuan Power pays attention to the influence of wind turbines on bird's migration. It ensures that the spacing between wind turbines can have birds fly cross safely and paints warning colors to help avoid bird impacts, minimizing the probability of birds flying at night impacting blades. At the same time, the company also protects the growth of other wildlife.

### CLASSIC CASE

#### Install Ultrasonic Bird Repeller

In May 2018, in order to protect the marine environment of the wind farm, Longyuan Jiangsu Offshore Company installed an ultrasonic bird repeller on the top platform of the offshore booster station. Ultrasonic bird repeller is an ultra-low power ultrasonic generation control system designed and manufactured by imported MCU. The ultrasound emitted by it stimulates the bird's nervous system, keeping the birds away from the ultrasonic coverage, thereby reducing the probability of birds hitting the blades.



Longyuan Power actively promotes and advocates the low carbon concept and behavior, cultivates and promotes voluntary emission reduction in China, helps



# Highlights

Xuyi

four unifications to boost the Group's Carbon Management  
only award-winning project in the field of carbon emission  
In November 2018, Capacity and efficiency improvement

# Prospects

forward to the future, Longyuan Power's social

# THIRD-PARTY COMMENTS



to maximize the company's economic, social and

# FEEDBACK



comprehensive values in a systematic and scientific way and will help us to improve our corporate social responsibility man



What's your overall evaluation of Longyuan Power's fulfillment of its CSR?

What's your overall evaluation of this report?

How will you evaluate Longyuan Power's CSR fulfillment in creating economic value?

How will you evaluate Longyuan Power's CSR fulfillment in creating social value?

How will you evaluate Longyuan Power's CSR fulfillment in creating environmental value?

Do you think the information disclosed by the report is accurate, clear and complete?

Do you think the format and content arrangement of this report is easy to read?

What's your opinion and suggestion on our CSR work?

What's your opinion and suggestion on our CSR report?



