

CORPORATE SOCIAL RESPONSIBILITY REPORT 2015



中国电力国际发展有限公司
CHINA POWER INTERNATIONAL DEVELOPMENT LIMITED

About this Report

Report Reference

This report is written in line with "Guidelines for Central Enterprises to Fulfill Social Responsibilities" issued by the SASAC and "Environmental, Social and Governance Reporting Guide" issued by the Stock Exchange of Hong Kong (SEHK). It also refers to "G4 Sustainability Reporting Guidelines" published by the Global Reporting Initiative (GRI) and "Chinese CSR Report Preparation Guide Version 3.0" (CASS-CSR 3.0).

Reporting Period

This report covers our activities from January 1, 2015 to December 31, 2015, while some information may refer to previous years.

Release Cycle

This report is an annual report.

Report Coverage

This report covers China Power International Development Limited. (Refer to the "Corporate Structure" part).

Information Sources

The financial data in this report come from the audited annual reports of China Power and other information come from the internal official documents and related statistics of China Power.

Alternative Reference

In this report, "We", "the Company" and "China Power" shall all refer to "China Power International Development Limited".

Access to This Report

This report has both Chinese and English versions and is released in both printed version and electronic version. If you need this report, please contact us.

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Chairman's Address



The year 2015 is a year for "reform and restructuring" for State Power Investment Corporation and is also essential for the rapid development of China Power. During 2015, we have made great efforts to overcome difficulties, such as a sharp slowdown in electricity consumption growth and an increasing pressure from safety and environment and we continued to focus on strategic positioning and innovative development, producing 63,531,141MWh generation in total with a net profit of RMB5,329,598,000, which is a new high.

As an energy company associated with the national economy and the people's livelihood, we are determined to take on heavy responsibilities for the development of national economy, people's living standard and environmental improvement. We will also act in accordance with the "innovation, coordination, green, openness, sharing" development philosophy and for the purpose of "providing green energy and serving the public" and in line with our "four integration" development philosophy to further improve the core competitiveness, sustainability and value-creating capability of the Company in order to promote the sustainable development of ourselves and society.

We stick to the idea of "Integrity between nature and humanity" to pursue harmonious development with nature in a path of clean energy. We always follow the "green" development philosophy and are dedicated to promoting clean production of coal-fired power by building environment-friendly and high-efficiency power generating units with large capacity and high parameters while accelerating the ultra-low emission upgrading project. The Company has implemented an overall new energy strategy by promoting hydro power, wind power and photovoltaic power development to increase the proportion of clean energy. Up to the end of 2015, clean energy has accounted for 19.19% of the attributable installed capacity, making China Power an overseas-listed Chinese independent power producer with the highest proportion of clean energy.



We stick to the idea of "Integrity between knowledge and action" to pursue development with the times in a path of innovation. Proactively adapting to the new normal of national economic growth and the new trend of the industrial development, we gradually conduct the restructuring of our development model and optimize our industrial plan in order to increase our core competitiveness. Also, in line with the "safety first, prevention first" policy, the Company introduces the safety management of nuclear power and constantly increase the safety management level to ensure a safe and stable operation of power plants. We pursue innovation-driven development, and with the aim of low-carbon operation, we promote innovation in technology, management, industry and our business model for transformation and upgrading to form a new growth point.

We stick to the idea of "Integrity between responsibility and profitability" to pursue all-win development in a path of constant diligence. While operating in accordance with laws and regulations, the Company attempts to expand its economic benefits for maintenance and increment of the value of state-owned assets and a good dividend for shareholders. In 2015, the turnover of the Company reached RMB20,196,670,000 with a profit attributable to shareholders of RMB4,149,018,000, up by 50.01% compared with the previous year. We also attach importance to win-win cooperation, while ensuring self-development, making full use of our advantages in manpower, capital and technology to boost the economy of the site of our power plants and the development of upstream and downstream industries.

We stick to the idea of "Integrity between public and enterprise" to pursue collaborative development with society in a path of mutualism. We believe in strengthening the company through human resource development and are constantly improving our personnel selecting and training mechanisms to provide employees with vast opportunities of career advancement and to promote mutual advancement of both employees and the Company. Taking a proactive part in shouldering social responsibilities, the Company conducts charitable activities such as student assistance and poverty alleviation. In 2015, we have organized 52 volunteering activities with 4,003 employees participated, which created a good atmosphere of "everyone taking part in the construction of a harmonious society and shouldering social responsibilities".

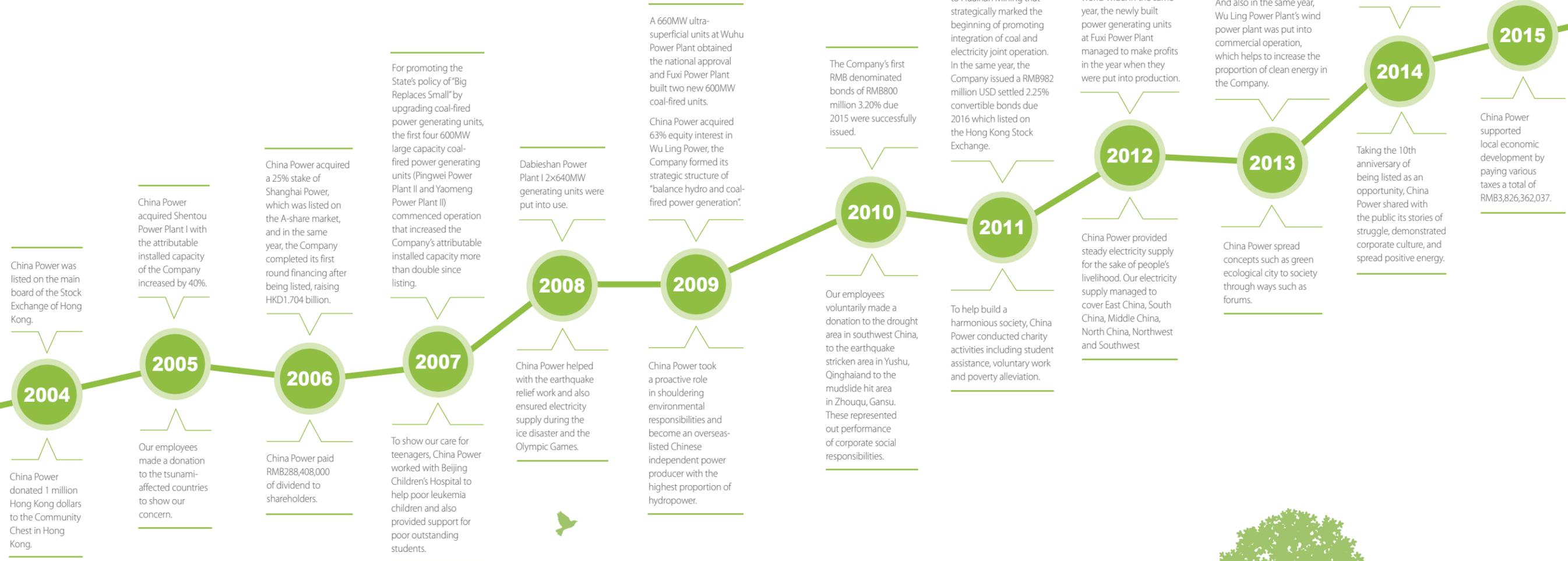
2016 marks the beginning of the national economic "13th Five-year Plan" of China and is also a year for the transformation and development of China Power. We are the core subsidiary of State Power Investment Corporation, the main force of traditional energy, as well as the final platform for the integration between traditional energy business and assets, and in 2016, we will proactively adapt to national structural reform of the supply. Also, we operate in accordance with our core values: "innovation, creation, diligence and mutualism" and our corporate spirits: "responsibility, honesty, wisdom and value". Based on our strategic positioning, sticking to our responsibilities and missions and making full use of our advantages, the Company will also strive to improve our operation and management capability and sustainability, marching into a new era for China Power in hands with all parties.

王炳华

Special Report I

Growing while Fulfilling Responsibilities

While constantly enhancing the comprehensive strength, China Power takes an active part in fulfilling economic, social and environmental responsibilities. Since the Company was listed on Hong Kong Stock Exchange in 2004, the development structure has constantly improved, the regional distribution has tended to be rational and the asset scale and quality have constantly increased. As the Company is making progress, the ability to fulfill responsibilities has also increased. We constantly provide green energy for society and support local economic growth by satisfying the power demand of key regions, such as East China and South China.



Special Report I



Constant increase of China Power's asset scale and quality



- In 2004, China Power was listed on the Main Board of Hong Kong Stock Exchange.
- In 2006, China Power completed its first financing after going listed, worth HKD **1.704 billion**.
- At the end of 2015, China Power's total assets have reached RMB **86,243,112,000**.

Constant improvement of China Power development structure



- Promoting clean production of coal-fired power, accelerating the construction of high-parameter and large-capacity power generating units as well as the desulfurization and denitration upgrading.
- Promoting hydropower while acquiring Wu Ling Power, develop coal-fired power and hydropower simultaneously.
- Developing new energy such as wind power and photovoltaic power, and the scale of the industry is expanding.

Increasingly rational regional distribution



- The company pursued development opportunities in high-capacity and high-parameter energy-saving and environment-friendly coal-fired power projects and clean energy projects in areas that boast resource advantage, regional advantage and market advantage.
- Since 2015, the Company initially established integrated energy service companies in Wuhu (Anhui), Chengdu (Sichuan), Gui'an (Guizhou) and Jiangmen (Guangdong). These companies were established to develop the integrated energy services business in distributed electricity network and direct sales and distribution of electricity, creating new sources of revenue and profit growth point.

Creating maximum economic benefits for society



- To benefit shareholders, China Power has shared RMB **5,537,207,000** with shareholders in total up to the end of 2015.
- Realizing maintenance and increment of assets, our assets have reached RMB **86,243,112,000** at the end of 2015.
- In support of local economic growth, China Power has paid RMB **17,189,587,044** taxation in total up to the end of 2015.

Providing green energy to society



- Promoting clean production of coal-fired power. Coal-fired power generating units of 600MW and above have accounted for **90%** of the total at the end of 2015.
- Developing clean energy. Installed capacity of clean energy has accounted for **19.19%** at the end of 2015.

Providing stable power supply for social development



- Providing steady and abundant power for the public. The Company's power generation has amounted to **491,526,944** MWh at the end of 2015.



Special Report II

Dedicated to Green Power Generation, Building a Beautiful China

Energy and environment are the two prominent problems that restrain the global economic growth and sustainable development. President of China Xi Jinping once emphasized that to usher in a new era of ecological progress and build a beautiful China is an important part of realizing the great renewal of the Chinese nation and is an inevitable requirement for realizing the Chinese dream.

As a power company, China Power keeps in step with the ecological progress and takes an active part in building a beautiful China. We regard "providing green energy and serving the public" as our mission and put green development into practice, offering green energy for the sustainable development of economy and society and making contributions to realizing the great renewal of the Chinese nation.

Overall clean energy development

As the environment is worsening, to take an active part in developing clean energy is an inevitable choice for the Company to strengthen its competitiveness, to keep up with the times and to enhance its sustainability. China Power implements the clean energy strategy and attaches importance to the strategic plan for clean energy development, regarding clean energy development as a strategic mission for emission reduction and environmental protection. Hence, the Company has gradually set up an across-the-board development pattern featuring not only coal-fired power but also clean energy.

The Company accelerates the overall development of clean energy and local power plants take an active part in clean energy development while firmly carrying forward regular power programs. Power plants are encouraged to develop high-quality clean energy programs in accordance with the features of local natural resources and public demands. In 2015, the total installed capacity of hydropower, wind power and photovoltaic power projects being conducted in the preliminary stage and planned to acquire exceeded 2,252MW, mainly distributed in branches in regions with a competitive edge such as Sichuan, Hunan, Yunnan, Xinjiang and Guangxi, etc. Up to the end of 2015, clean energy has accounted for 19.19% of the attributable installed capacity of the Company, making China Power an overseas-listed Chinese independent power producer with the highest proportion of clean energy.

"New normal" of green coal-fired power for green development of the Company

The idea of green development is a scientific outlook on development and development pattern that is a guideline for China's 13th "Five-Year Plan" and future development. It requires all industries to seek resource-saving, low-carbon, clean and circular development. In 2014, the "strictest standard ever" "Emission Standards of Air Pollutants for Coal-fired Power Plants" was formally implemented. Therefore, the power sector shoulders heavier responsibility of reducing emissions than before.



China Power regards green development as an important part of the development of the company. Considering "clean water and clear sky" as a corporate development mission, we have established a "further environmental protection" platform. Also, we improve our environmental protection management organization: our president is in charge of the Production Safety Committee, responsible for environmental protection work, and the Safety and Environmental Protection Supervision Department has also been established for daily management. Hence, a "new normal" of environmental protection management has been established, which covers each level of the company and blends in the whole process of planning, construction and operation.

The Company has implemented a three-step strategy for environment-friendly upgrading. In 2015, we carried out a third round of environment-friendly upgrading for the purpose of ultra-low emission. As a result, we have completed the planning work of ultra-low emission upgrading for the power generating unit of 600MW in Yaomeng and those of 600MW in Shentou. Our work starts from the idea of scientific development and the overall plan for promoting ecological progress, to the combat against haze and the "strictest standard ever", and finally to China Power's new normal of green coal-fired power and specific environmental protection measures adopted by local power plants. All our efforts for environmental protection stands for the course of struggle in which China Power, as an energy producer associated with the national economy and the people's livelihood, is providing green energy for the sustainable development of China's economy.

First round of environmental protection upgrading

- Period: 2012-2013
- Investment: RMB698,000,000
- Purpose: to install desulfurization and denitration facilities
- Achievements: reducing 49,300 tons of nitrogen oxide emission and 4,500 tons of SO₂ emission

Second round of environmental protection upgrading

- Period: 2014-2015
- Investment: RMB680,000,000
- Purpose: to increase capacity of desulfurization, to install denitration facilities, to upgrade electric precipitators
- Achievements: reducing 7,800 tons of nitrogen oxide emission, 3,700 tons of SO₂ emission, 3,000 tons of dusts

Third round of environmental protection upgrading

- Period: 2015-2017
- Investment: RMB985,000,000
- Purpose: Ultra-clean emission
- Prospective achievements: 19 units, meeting the latest emission standards of air pollutants for coal-fired power plants.

Yaomeng Power Plant

600^{MW}

the planning work of ultra-low emission upgrading

Shentou Power Plant

600^{MW}

the planning work of ultra-low emission upgrading

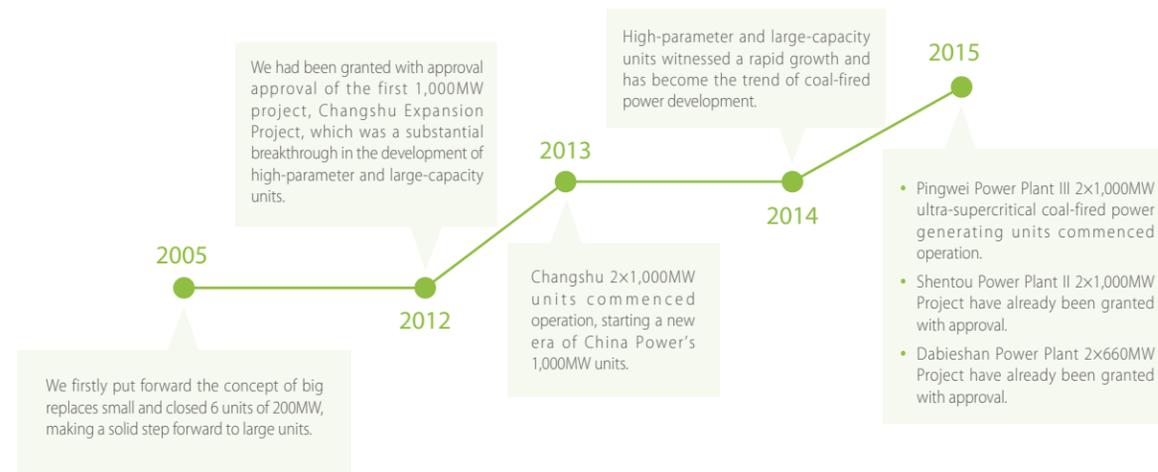


Special Report II



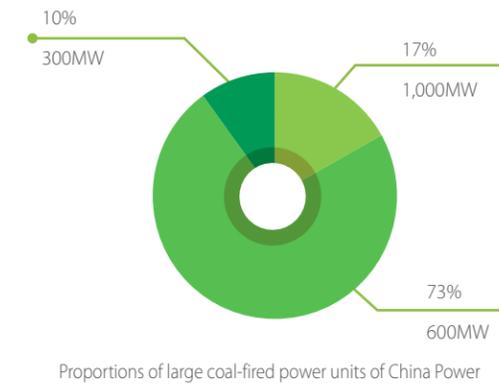
Large-capacity, high-parameter power generating units begin a new chapter of China Power.

The pollutant emission of units with large capacity and high parameters is a small percentage of that of direct-fired units. Given that the total coal consumption in China is fixed, clean coal-fired units with high parameters and large capacity can certainly help to increase environmental efficiency and reduce pollutant emissions. China Power is the first to come up with the idea of big replaces small and "optimizing power generation". It has closed 6 power generating units of 200MW and made great efforts to develop environment-friendly and efficiency units with large capacity and high parameters, which also has become the first choice when China Power is building new power plants.



In 2015, Pingwei Power Plant III 2x1,000MW ultra-supercritical coal-fired power generating units commenced operation. This is the first "Three one-million project" in the world with 1,000MW generating units (one million kilowatts), 1,000KV ultra-high-voltage transmission lines (one million voltages), and 1,000KV main transformer (one million voltages), which further optimizes the coal-fired power structure, reduces coal consumption for power supply, and improves environmental protection index.

At the end of 2015, the Company's large capacity coal-fired power units of 600MW and above have accounted for 90% approximately.



Denitration facilities are put into use at full capacity, leading the development of the whole industry.

As a proactive response to the national desulphurization and denitration policies, China Power strives to maximize the efficiency of desulphurization and denitration facilities. While the national environmental protection authority sets no requirements for nitrogen oxide emissions in the launch phrase of units, we have conducted active research on denitration technology at full capacity and strive to overcome technological difficulties in order to achieve no-breakpoint operation of denitration facilities.

Further reading

China's energy structure is dominated by coal. In 2015, according to the statistics released in Statistical Bulletin of National Bureau of Statistics of China, the total coal consumption in China was approximately 2.752 billion tons of standard coals, accounting for 64.0% of the total energy consumption. As the mature energy conservation and emission reduction technology in the power industry, high-parameter and large-capacity power generating units have positive influence on environmental protection.

Further reading

At present, most coal-fired power plants use catalytic reduction method for desulphurization to remove nitrogen oxide from exhaust gases and the catalytic reaction requires a temperature above 310°C. However, the temperature of exhaust gases is low in the launch phrase and when it is lower than 310 °C, the desulphurization facility will automatically stop, which leads to excessive nitrogen oxide emissions.

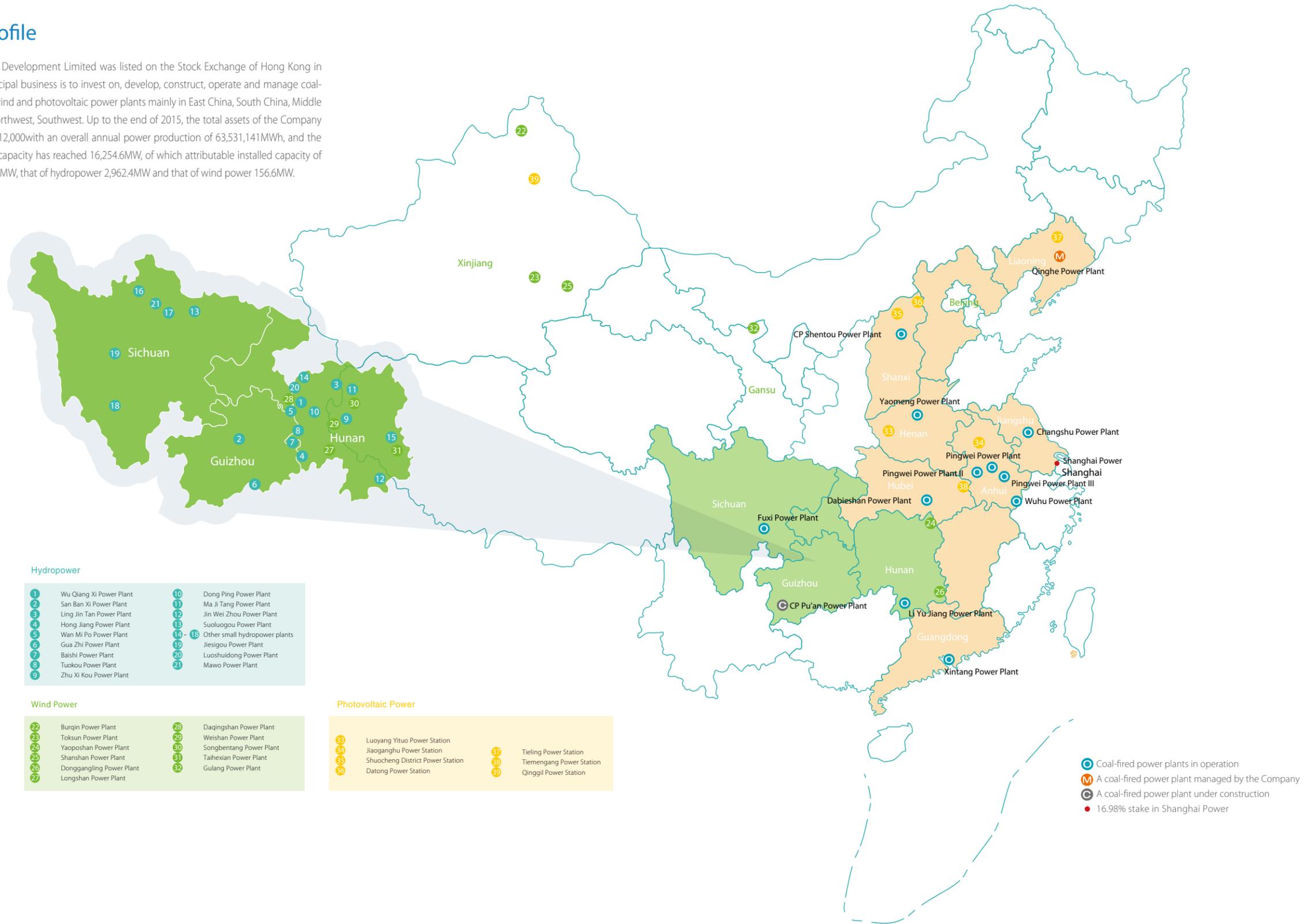


Overview of China Power

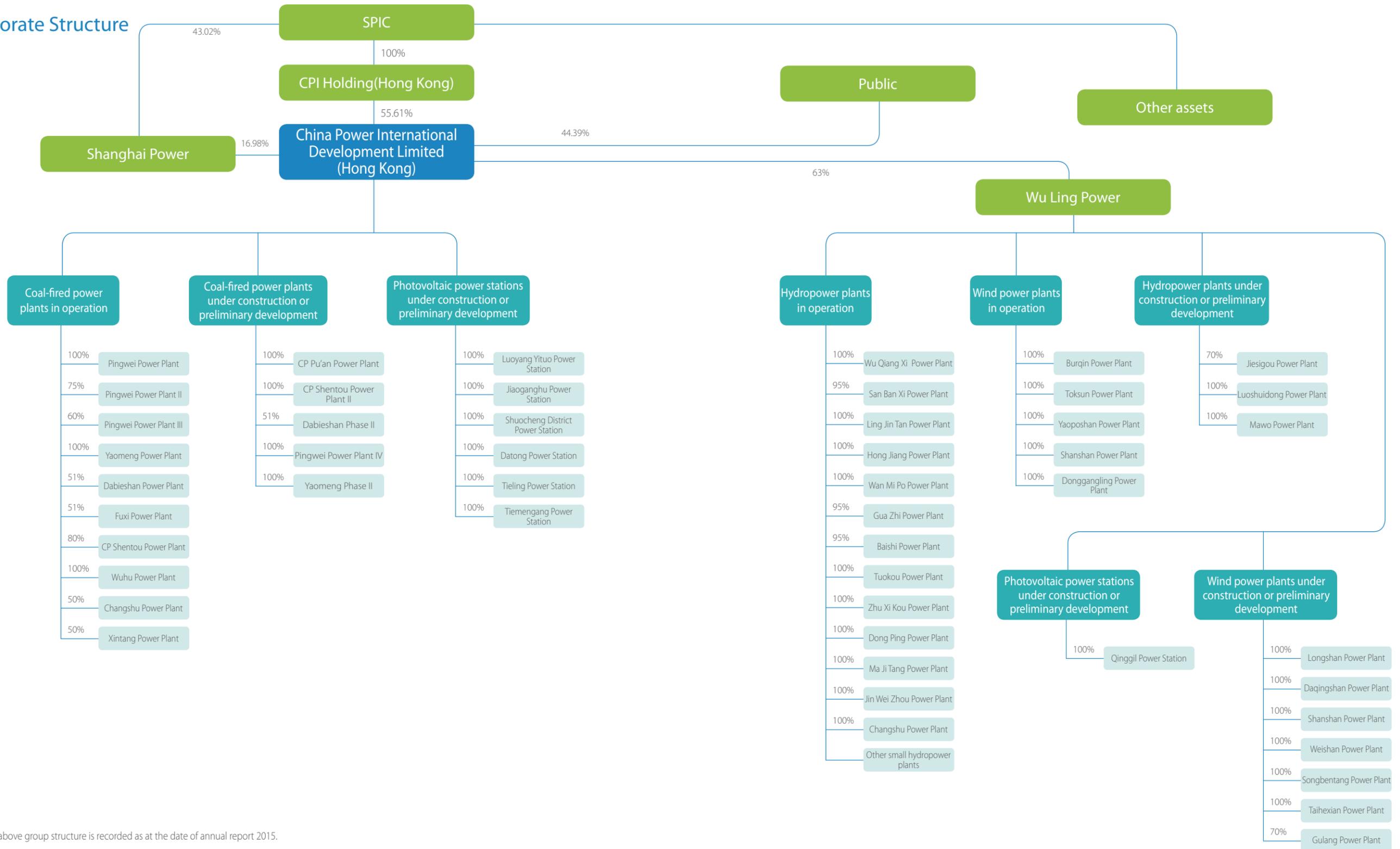


Company Profile

China Power International Development Limited was listed on the Stock Exchange of Hong Kong in October, 2004, whose principal business is to invest on, develop, construct, operate and manage coal-fired power, hydropower, wind and photovoltaic power plants mainly in East China, South China, Middle China, North China and Northwest, Southwest. Up to the end of 2015, the total assets of the Company are valued at RMB86,243,112,000 with an overall annual power production of 63,531,141MWh, and the total attributable installed capacity has reached 16,254.6MW, of which attributable installed capacity of coal-fired power is 13,135.6MW, that of hydropower 2,962.4MW and that of wind power 156.6MW.



Corporate Structure

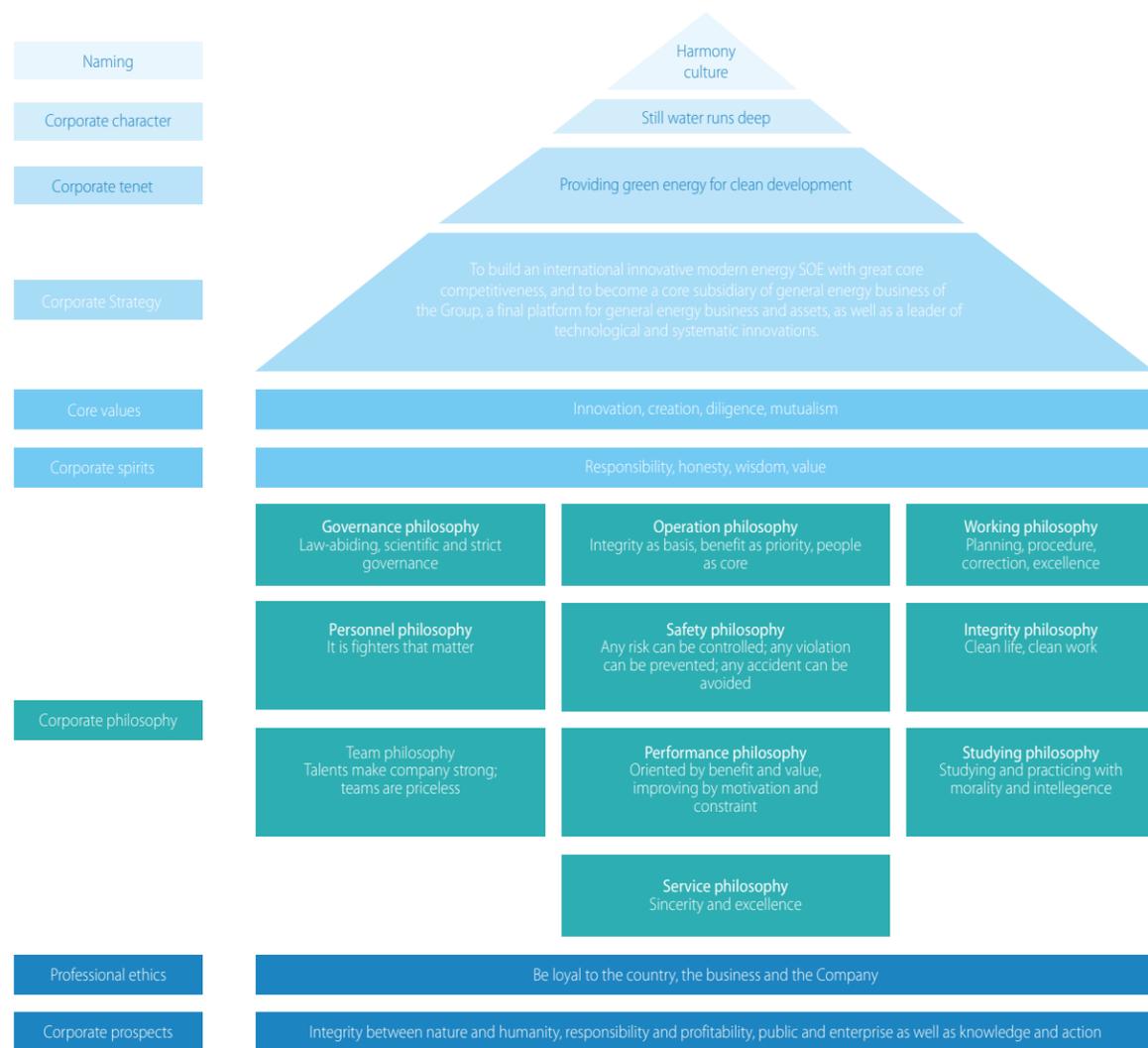


Note: The above group structure is recorded as at the date of annual report 2015.



Corporate Culture

The Company has actively explored and practiced ways of invigorating business with corporate culture and achieving mutual development in harmony. Under the guide of "culture of harmony" of State Power Investment Corporation (SPIC), the Company has actively promoted innovation in management, built and improved the overall development strategy system, and cultivated the unique corporate culture of "Still water runs deep", for promotion of strategic development, management level and prosperous development of the company.

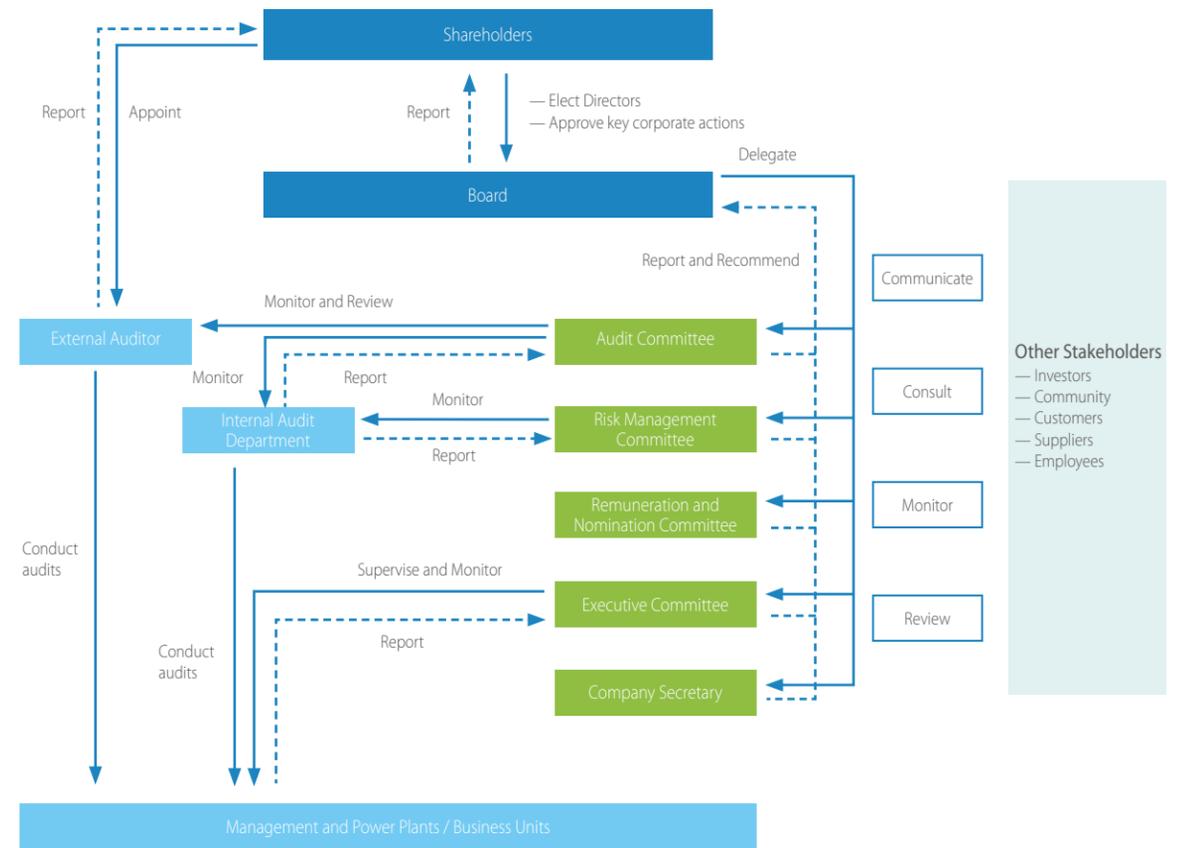


Corporate Governance

The Company puts the idea of compliance management for listed companies into practice, persisting in lawful external operation and internal governance while constantly improving the internal management system and governance capability. Through constant exploration and practice, a normative governance structure has been established, as well as an effective internal supervision system and risk management system.

Operation with compliance

Strictly in line with the "Companies Ordinance", "Listing Rules" and "Articles of Association", the Company makes its articles of association and sets up the Shareholders Meeting and the Board of Directors. There are four board committees including the Audit Committee, the Risk Management Committee, the Remuneration and Nomination Committee and the Executive Committee. The Company gives full play to the core role of the Board in corporate governance and to the supervising and controlling function of all board committees. And the Board establishes clear responsibilities and authorities for management to ensure the efficiency of daily operation. The effective operation of the Shareholders Meeting, the Board and the Board Committees promotes the communication between our shareholders and the Company, makes the connection between the Board and the management more efficient and our working procedures more normative, and further improves our governance system.



Governance structure of China Power



Anti-corruption

The Company has established the "Regulation of Collective Decision Making for Significant Business Issues", "Administrative Regulations for Letters and Calls and Whistle-blowing" and "Regulations for Integrity Talks" and made improvements to such regulations. The concepts of "dual responsibilities" and "two-way investigation" are stringently implemented. Where significant disciplinary and legal violations occur at a department or unit, both the culprit and the relevant supervisor should be held responsible. Supervision and checks over the exercise of power have been strengthened and all supervisory regulations have been stringently executed.

A month-long campaign for the promotion of and education on anti-corruption was organized under the theme of "Rectifying practices to generate positive force and tightening discipline to reinforce implementation". A range of activities, such as special seminars, counseling talks, visits, admonitory videos, personal counseling and anti-corruption tests, were held to fortify the concept of legal and disciplinary compliance and drive mental and behavioral changes among employees, in order to bolster the implementation of relevant regulations. In 2015, the Company was actively engaged in training and promotional campaigns such as centralized training and seminars on anti-corruption, which registered a total of 5,683 participants.



▲ Education on anti-corruption in Shentou Power Plant



Risk control

The Company constantly enhances internal auditing and control to improve its risk management mechanism. In 2015, the Company combed through its existing regulation system in a systemic manner and formulated 44 new regulations, further improving the regulation management system, which works as an institutional guarantee for auditing and internal control. In addition, we established an internal risk control platform under ERP and an overall risk pre-warning indicator system, successfully moving the risk threshold forward. A solid and dynamic joint risk defense system covering all businesses and subsidiaries of the Company was also established to proactively prevent from risks by collecting, identifying, assessing and coping with risk information through information technologies. As a result, the risk prevention and control capability of the Company was effectively enhanced.

To constantly improve the legal risk prevention mechanism, the Company strengthens the team of legal advisers. In 2015, all three-level departments and units of the Company were equipped with legal posts and full-time or part-time legal advisers to enhance legal risk management. Legal reviews are conducted for all regulations, business contracts and major decisions.

Participated Social Organizations

No.	Organization	Date (year)	Level
1	National Power Generation Units Technology Collaboration	2013	National
2	Price Association of China	2013	National
3	China Enterprise Confederation	2010	Provincial
4	Large Electric Machine Study Committee of Chinese Society for Electrical Engineering	2010	Provincial
5	China Electricity Council	2008	China Electricity Council
6	China Electric Power Equipment Management Association	2014	China Electricity Council
7	Human Resource Association for Chinese & Foreign Enterprises	2015	Provincial
8	Shanxi Society of Ideological and Political Work	2010	Provincial
9	Shanxi Institute of Certified Public Accountants	2013	Provincial
10	Human Resource and Social Security Association of Shanxi	2012	Provincial
11	Henan Electric Power Engineering Construction Enterprise Association	2010	Provincial
12	Anhui Radio Association	2008	Provincial
13	Anhui Association of Enterprises with Foreign Investment	2010	Provincial
14	Jiangsu Worker Newspaper	2008	Provincial
15	Sichuan Power Profession Association	2011	Provincial
16	Sichuan Energy Association	2013	Provincial
17	Pingdingshan Urban Sewage Treatment Profession Association	2011	Municipal
18	Shuozhou Journalists Association	2011	Municipal
19	Wuhu Environment Federation	2013	Municipal
20	Wuhu File Association	2007	Municipal
21	Suzhou Association for Electric Power Industry	2008	Municipal

Note: The chart above only shows a part of social organizations that China Power participates in.



Responsibility and Management





The Board well understands the importance of environmental protection to the sustainable and steady development of the Company. Therefore, it strives for the best balance among the safety and reliability of power supply, cost control and environmental protection. The Board enthusiastically promotes the message of "give light and power to the world, leave clear water and blue skies to our children", which is also one of the fundamental corporate development missions of the Company. It targets to become a resource-saving and environment-friendly enterprise with high proportion in clean energy, low consumption of energy and resources, and low discharge of pollutants.

Concept of Social Responsibility

The Company complies with the strategic principle of "Human-oriented, Risk Control, Green Operations", pursuing high standards of operations and striving to minimize the adverse impact on the society and the environment. It is improving its standards on clean production to provide safe, economic and clean products and services to customers and the society.

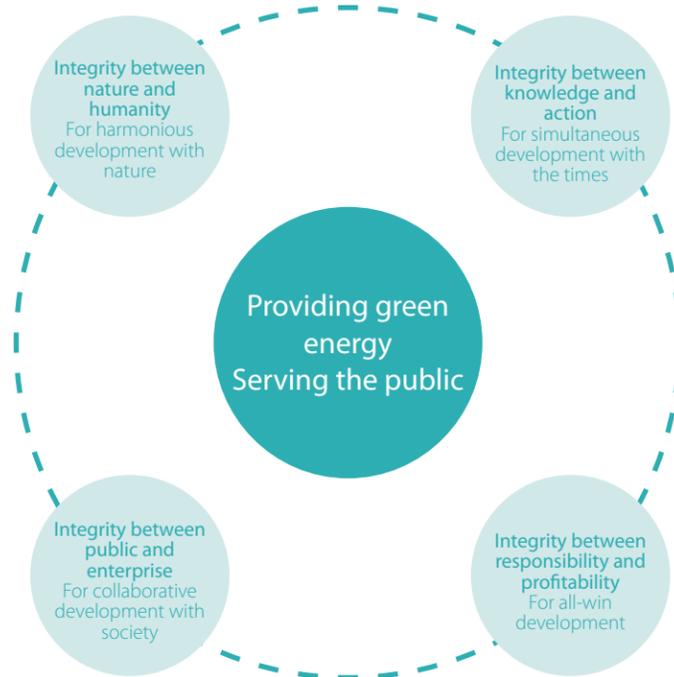


Figure: Model of social responsibility



Advancement of Social Responsibility Work

To constantly promote social responsibility work, the Company improves the management framework of social responsibility as well as employees' capability to fulfill social responsibilities and promotes the disclosure of social responsibility information.



Responsibility management



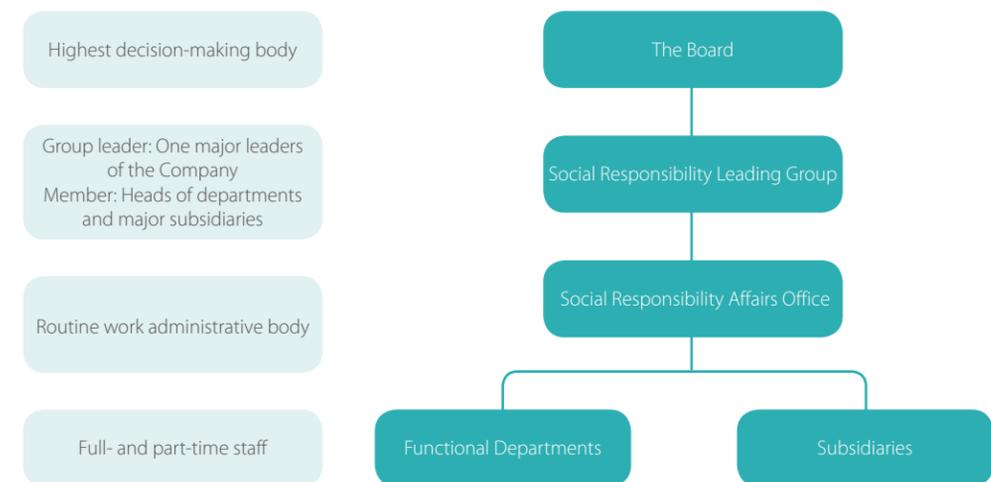
Capability training



Disclosure of CSR information

Responsibility management

The Company has established a clear-cut and well-organized social responsibility management framework with the working procedures regulated and the management system improved in the headquarters as well as subsidiaries. As the highest decision-making body for social responsibility affairs of the Company, the Board is in charge of major decisions such as social responsibility goals of the Company. Under the Board, there is a social responsibility leading group in charge of regular work related to social responsibilities. The group leader is one of the major leaders of the Company and the members are heads of departments and major subsidiaries. The Social Responsibility Affairs Office, the department in charge of social responsibility management, is responsible for writing CSR reports with the help of each departments and subsidiaries.



Social responsibility framework of China Power



Capability building

In 2015, the Company carried out social responsibility training and communicated with leaders of related departments specifically over social responsibility affairs, with the aim to enhance the recognition of social responsibilities of employees and the management, as well as their willingness and ability to fulfill social responsibilities.

Disclosure of CSR information

The Company proactively discloses its social responsibility practices to stakeholders. It has compiled the "Environmental, Social and Governance Report" for years in a row and opened a column of "Environmental Protection and Social Responsibility Report" on the Company's website. In 2015, we started to compile the first social responsibility report.



Stakeholder Communication and Engagement

The Company attaches importance to the communication with stakeholders and creates platforms for their engagement to ensure their right to know, to supervise and to engage in, which helps us build a close cooperation partnership with our stakeholders.

Stakeholder	Means of communication & engagement	Expectation and requirement	Our response
Regulatory agencies	<ul style="list-style-type: none"> Participation in related meetings Work reporting Information reporting 	<ul style="list-style-type: none"> Abidance by laws and disciplines Operation with compliance Paying taxes according to laws Energy conservation and emission reduction Promoting employment 	<ul style="list-style-type: none"> Accelerating the change of economic growth model Abidance by laws and regulations Proactive communication with regulatory agencies
Investors	<ul style="list-style-type: none"> Performance conference Roadshow Reverse roadshow Investor conference Stakeholders meeting Daily communication 	<ul style="list-style-type: none"> Good profit Reasonable dividend distribution policy Increasing market value 	<ul style="list-style-type: none"> Communicating with investors closely and improving the timeliness of information disclosure Increasing profitability Taking advice from market to improve the level of the Company's business operation
Employees	<ul style="list-style-type: none"> Workers congress Youth symposium 	<ul style="list-style-type: none"> Occupational health and safety protection Equal welfare guarantee Employees' health and safety assurance More promotion opportunities Employee care 	<ul style="list-style-type: none"> Improving salary system and employee assurance system More investment on health and safety Increasing the happiness index of employees
Clients	<ul style="list-style-type: none"> Sales and order-placing meeting Customer satisfaction survey 	<ul style="list-style-type: none"> Performance of contract Quality assurance Service support Win-win cooperation with mutual benefit 	<ul style="list-style-type: none"> Providing high-quality, high-efficiency, safe and green energy products and services Keeping trade secrets
Suppliers	<ul style="list-style-type: none"> Supplier conference Disclosure of tender information Strategic cooperation Cooperation agreement 	<ul style="list-style-type: none"> Long-term cooperation Promise keeping Open, fair and impartial procurement Joint development Win-win cooperation with mutual benefit 	<ul style="list-style-type: none"> Implementing open and transparent business principles and procedures Improving management and sticking to contracts and agreements Promoting responsible procurement
Creditors	<ul style="list-style-type: none"> Cooperation agreement 	<ul style="list-style-type: none"> Strong debt paying ability On-time repayment of capital and interest Mutual trust and cooperation 	<ul style="list-style-type: none"> On-time credit repayment Strengthening communication
Partners	<ul style="list-style-type: none"> High-level exchange visit Strategic cooperation 	<ul style="list-style-type: none"> Long-term stable partnership 	<ul style="list-style-type: none"> Integrity and abidance by laws Win-win cooperation with mutual benefit
Peers	<ul style="list-style-type: none"> Industrial association Seminar 	<ul style="list-style-type: none"> Fair competition and harmonious development Joint efforts in safe production Research on environment protection and low carbon footprint 	<ul style="list-style-type: none"> Spreading experience in safe production Increasing the value of industrial chain Sharing technological achievements and techniques
Communities	<ul style="list-style-type: none"> Cooperative construction Public service activity Publicity activity 	<ul style="list-style-type: none"> Participation in community development Support for public service activities Employment guarantee Local ecological environmental protection 	<ul style="list-style-type: none"> Promoting public service activities Creating local employment opportunities Promoting local economic growth

Integrity between Nature and Humanity: Harmonious Development with Nature





With economic and social development, energy demand is increasing sharply, which results in serious environmental problems. Especially as the widespread smog in China has attracted the attention of the whole society in recent two years, environmental protection has become a major issue concerning the economic and social development of China and people's well-being. As an energy supplier, China Power has a bounden duty to provide the whole society with safe, stable, clean and environment-friendly green energy and we are the main force of energy conservation, emission reduction and environmental protection.

We stick to the idea of "integrity between nature and humanity" and follow the green development concept that "give light and power to the world, leave clear water and blue skies to our children". In addition, we attach importance to the development of clean energy and constantly improve our standards on clean production, aiming to become a resource-saving and environment-friendly enterprise with high proportion of clean energy, low consumption of energy and resources and low discharge of pollutants that leads the green development of the power industry.

Environmental Protection Management for Upgraded Development

To constantly improve the work safety, health and environmental protection system, the Company has carried out environmental risk identification work and strengthens risk pre-control and management to ensure the full implementation of environmental risk prevention measures. In 2015, we initiated the second round of internal assessment of the work safety, health and environmental protection system and have completed the external assessment for Shentou Power Plant, Yaomeng Power Plant, Fuxi Power Plant, Dabieshan Power Plant and Pingwei Power Plant with an emphasis on the overall risk identification and assessment work. In addition, we continued improving our reward and punishment system for environmental protection work and carrying out the responsibility assessment of environmental protection and emission reduction targets.



Management of environmental protection facilities of the Company

Dabieshan Power Plant enhances environmental protection management.

Case study



Dabieshan Power Plant endeavors to reduce the negative effects that coal-fired power generation brings to the environment and has set higher standards for itself. Based on the new "Environmental Protection Law" and the "Supervision and Management of Environment-Friendly Electric Price of Coal-Fired Power Generating Units and Operation of Environmental Protection Facilities", Dabieshan Power Plant has established many systems such as the "Contingency Plan for Environmental Emergencies" and the "Supervision over Environmental Protection Technologies". Meanwhile, it has stricter pollutant emission standards than national ones. For example, its emission standard of sulfur dioxide is 50 mg/Nm³, lower than the national standard of 100 mg/Nm³, which wins external recognition for the plant. In 2015, recommended by the Bureau of Environmental Protection of Macheng City, it was nominated for the Top 10 Environment-Friendly Enterprises by the Bureau of Environmental Protection of Huanggang City.



The Company has organized regular environmental protection publicity and training activities to strengthen employees' law-abiding awareness in terms of environmental protection. In 2015, all power plant started to study the new "Environmental Protection Law" with 3,094 trainees and 58 hours of training.



Wuhu Power Plant implements new "Environmental Protection Law".

Case study



To better implement the new "Environmental Protection Law", Wuhu Power Plant invited the directors of the Municipal Bureau of Environmental Protection of Wuhu and the Municipal Total Amount Office, and the head of the Municipal Monitoring Station to analyze and explain the air pollution situation and related laws and regulations and to explain in detail the principles and methods of the verification and accounting of total emission reduction. All the reports focused on the background, key points and major revised articles of the new "Environmental Protection Law" and combined the major content of the law and items that require enterprises' attentions. Related department leaders, administrative staff, shift leaders, group leaders and production backbones attended the training. After the training, Wuhu Power Plant organized further study activities to strengthen the publicity and implementation of the new "Environmental Protection Law" for all production posts.



▲ Training on the new "Environmental Protection Law" in Wuhu Power Plant



Emission Reduction for Green Development

In proactive response to national environmental protection policies, the Company has implemented environment-friendly upgrading and promoted the implementation of technologies such as desulfurization, denitration, dedusting, zero emission of industrial effluent and solid waste. New projects were designed in accordance with the strictest pollutant emission standards to reduce pollutant emissions.

Exhausts

The Company continued to enhance management of dedusting, desulphurization and denitration facilities and formulated working plans for the reduction of discharge and environment-friendly technological upgrades, in proactive response to the national environmental policies and in strict compliance with the "Emission standard of air pollutants for coal-fired power plants", "Ambient air quality standards" and other pertinent laws and regulations. In 2015, the Company conducted technological programs such as the "Research and Application of Enzyme Cleaning Coal Technology", which has verified that using coal that is processed through the "bio-enzyme clean coal technology" can reduce air pollutant emissions and clean coke in furnaces. This program has created a new pre-processing method for coal and is of great importance for increasing coal efficiency and reducing pollution.

In 2015, the Company mapped out the ultra-low emission upgrading programs for coal-fired power generating units in subsidiary power plants, and all programs have proceeded as planned. Up to the end of 2015, the ultra-low emission upgrading programs for 3 units have been completed, namely the No.5 unit at Yaomeng Power Plant, the No.1 unit of Shentou Power Plant and the No.6 unit of Changshu Expansion Project. Consequently, the total emission volumes of sulfur dioxide, nitrogen oxide and smoke and dusts were reduced by 1,873 tons, 5,010 tons and 2,446 tons respectively. Besides, in proactive response to climate change, the Company developed clean energy to reduce the emission of greenhouse gases such as carbon dioxide. In 2015, the Company's clean energy power generation amounted to 18,886,023MWh, saving 14,440,000 tons of carbon dioxide.

Data of smoke pollutant emissions: 2013 – 2015

Nature and type of discharge	2013	2014	2015
Total discharge of nitrogen oxide ('000 tons)	47.847	17.258	12.248
Density of nitrogen oxide discharge (g/KWh)	1.127	0.389	0.212
Total discharge of flue gas and dusts ('000 tons)	8.024	5.241	2.795
Density of flue gas and dusts discharge (g/KWh)	0.189	0.118	0.050
Total discharge of sulfur dioxide ('000 tons)	14.647	12.571	10.698
Density of sulfur dioxide discharge (g/KWh)	0.345	0.283	0.198
Total discharge of carbon dioxide ('000 tons)	38,010	38,396	37,495
Density of carbon dioxide discharge (g/KWh)	895	866	855

the total emission volumes of sulfur dioxide

1,873 tons

the total emission volumes of nitrogen oxide dioxide

5,010 tons

the total emission volumes of smoke and dusts dioxide

2,446 tons

the Company's clean energy power generation

18,886,023 MWh

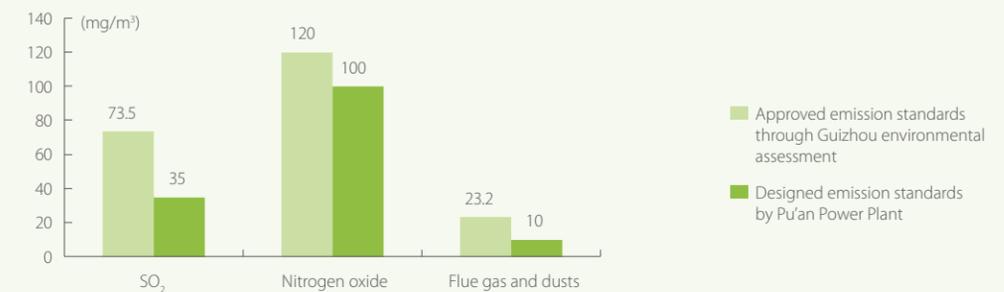


Pu'an Power Plant's high standard of smoke emission

Case study



To protect the atmospheric environment, Pu'an Power Plant took into consideration reducing the density of smoke emission at the beginning of its establishment. With a standard based on the smoke emission standard approved through the environmental assessment in Guizhou Province and in accordance with the newest ultra-low emission standard, it endeavors to achieve ultra-low emission.



Wastes

Strictly in line with the "Pollution Standards for General Industrial Solid Waste Storage and Disposal Sites", the Company has established complete deslagging and dedusting systems to reduce waste emissions, following the principle of slag-dust division, thick-thin division and dry discharge of dry dusts. Besides, we fully exploit the potential use of fly ash and has set up comprehensive fly ash utilization and management measures and annual goals, achieving turning waste into wealth and cyclic utilization. In 2015, power plants of the Company witnessed a comprehensive fly ash utilization rate of 80.50% and Wuhu Power Plant, Pingwei Power Plant III all achieved a 100% comprehensive utilization rate of coal ash, slag and desulfurized gypsum.

Data of wastes discharge: 2013 – 2015

Nature and type of discharge	2013	2014	2015
Total discharge of hazardous wastes ('000 tons)	0	0	0
Density of hazardous wastes discharge (g/KWh)	0	0	0
Total discharge of non-hazardous wastes ('000 tons)	2,594	2,192	1,879
Density of non-hazardous wastes discharge (g/KWh)	61.1	49.4	30.6

Wuhu Power Plant enhances the comprehensive utilization and management of solid waste.

Case study



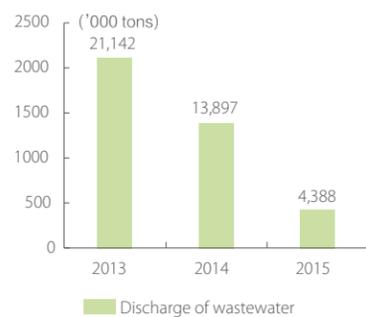
Wuhu Power Plant attaches importance to the management and comprehensive utilization of solid waste, enhances the all closed-end management of operating environment for fly ash and realizes zero leaking and zero scrap. Wuhu Power Plant actively develops markets and utilization channels for slag, strictly forbids to randomly throw away waste, and pursues maximized benefit from the disposal of waste materials. In 2015, Wuhu Power Plant witnessed a 100% comprehensive utilization rate of solid waste.



Wastewater

The coal-fired power plants of the Group discharged wastewater in strict compliance with national standards, including "Integrated Wastewater Discharge Standard" and "Water Quality Index for Wet Flue Gas Desulfurization of Coal-fired Power Plants", and actively implemented the "Action Plan on Prevention and Control of Water Pollution". In 2015, the Company inspected the utilization of water resources and wastewater discharge of its subsidiaries to enhance the wastewater treatment for ensuring the discharge up to standard and maximize the recycling and reuse of wastewater.

Data of wastewater discharge: 2013 – 2015



Case study

Wu Ling Power utilizes waste water as a resource.

According to the volume and quality of water at the drainage points of the power plant, Wu Ling Power has mapped out reasonable designs for drainage system and effluent treatment. The drainage system follows the principle of "clean-waste division, multiple uses of water and effluent recycling". After being treated, industrial effluent and domestic waste water will enter buffer tanks as the supplementary water of the water recycling system, for the purpose of cyclic use. In the meantime, the water recycling system is optimized to determine a suitable concentration multiplying power and recycled water volume. In 2015, the utilization rate of effluent reached 100%.



Energy Conservation for Efficient Development

In line with the Company's strong emphasis on the efficient recycling of raw materials for production, such as coal resources and water resources in order to realize efficient and intensive production.

Coal resources

Since coal is a precious and non-renewable resource, the Company is engaged in ongoing efforts to optimize power generation structure by increasing the proportion of coal-fired power generating units of 600MW and above while phasing out units of 300MW and below with large coal consumption. As for common coal-fired power generating units, we have carried out a comprehensive environment-friendly and energy-saving upgrading program in a planned way. We have also strengthened control over coal procurement and purchased high-quality coal with high heat generation. In 2015, the Company's coal-fired power generating units with an average consumption rate of 307.08g/KWh, decreasing by 3.83g/KWh compared to the previous year, the Company's coal-fired power units reported an increase in power generation by 288,538MWh, while raw coal consumption decreased by 951,000 tons compared to the previous year.



Case study

Fuxi Power Plant enhances its efforts to make a technological breakthrough and implements energy-saving upgrading.

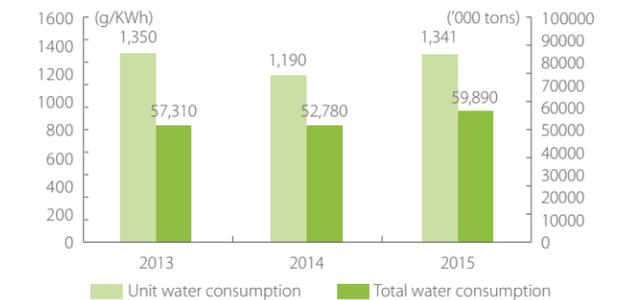
Fuxi Power Plant makes full use of the low energy consumption advantage of its supercritical large units and organizes technicians to tap the potential of equipment technological upgrading and production technique optimization. A series of major energy conservation and emission reduction projects have been completed, such as the energy conservation upgrading project for steam turbines units, the optimization project for sliding-pressure operation and the variable frequency upgrading project for large units. As a result, the plant has managed to save coal resources with its coal consumption decreasing by 3.86 g/KWh.



Water resources

Reasonable management and utilization of water resources is an important way to save water. The Company enhances employees' awareness of water conservation and strengthens equipment management to reduce water consumption in hydropower generation. Rainwater collection and utilization systems have also been built on large construction sites in areas with abundant rainfall, thereby achieving fresh water conservation. In addition, the Company has enhanced maintenance on different types of effluent treatment facilities and built reusable water collection and treatment systems. Therefore, recycled water can be used in places with a low water quality requirement, realizing cyclic utilization of water. For example, Wu Ling Power managed to save 8,108,000 tons of water.

Total water consumption and unit water consumption: 2013 – 2015



Ecological Protection for Harmonious Development

Since power plants may have negative effect on ecological environment to a certain degree, including on local water environment and bio-diversity, the Company attaches importance to eco-environmental protection. In the process of plant siting, we kept our plants away from bio-diversity protection zones; in the process of plant construction, we strictly implemented environmental protection and ecological protection; and in the process of plant operation, we reduced the discharge of waste water, waste gas and solid waste and carried out ecological restoration and management.



▲ China Power Beijing Representative Office's tree planting activity for eco-environmental protection



the whole-process management of water area eco-environment by hydropower plants

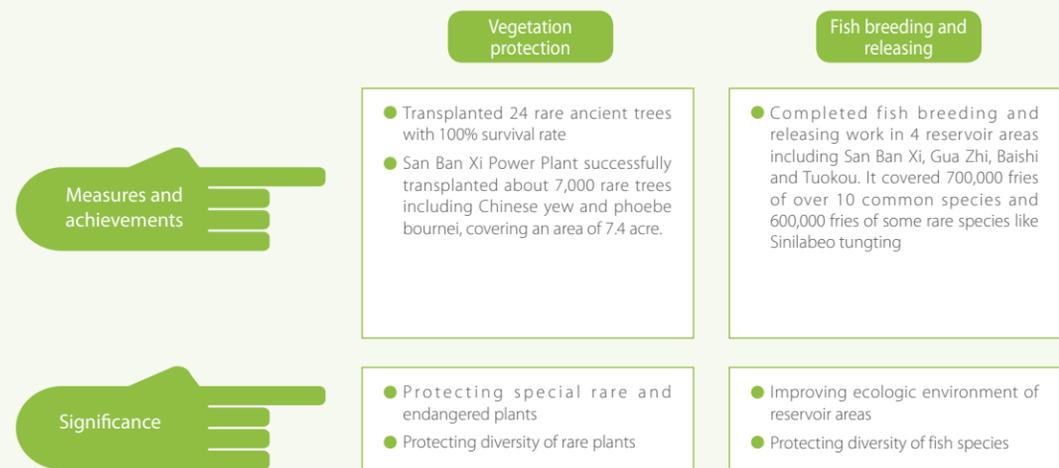


Case study



Wu Ling Power protects bio-diversity.

Wu Ling Power persists in construction and operation on the basis of ecological protection. Through vegetation protection, fish breeding and fish releasing, it aims to reduce negative impact on environment and to ensure sustainability of eco-environment.



Wu Ling Power's ecological protection measures and achievements



▲ Wu Ling Power is transplanting rare trees



▲ Wu Ling Power's fish breeding and fish releasing activity



Green Office for Low-Carbon Development

The Company promotes green office and encourages employees to start a green life from dribs and drabs, such as saving paper, electricity and green travel, in order to incorporate the green and low-carbon concept into the daily work of employees.

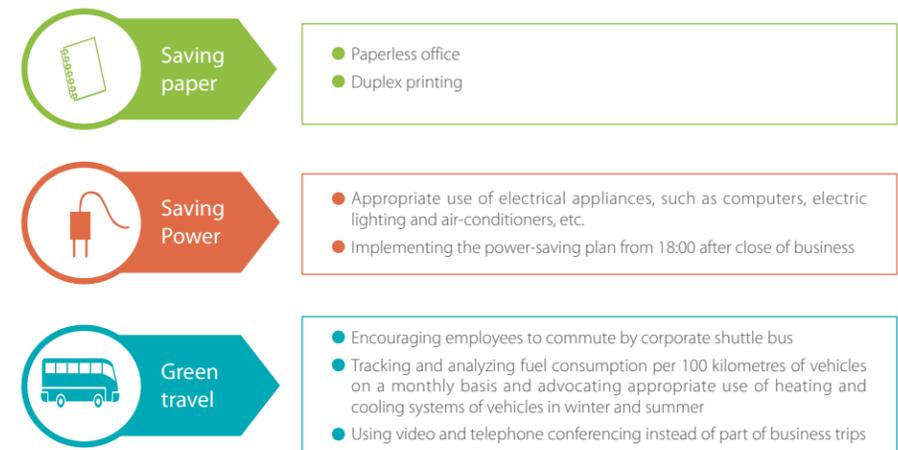
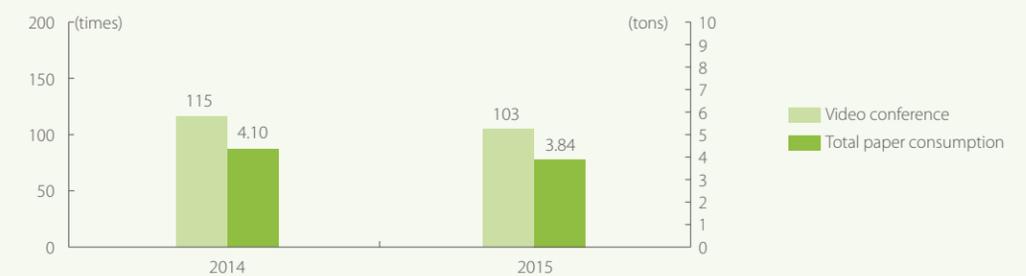


Figure: Green office measures

Green office performance in Beijing office building: 2014 – 2015

Case study



Integrity between Knowledge and Action: Simultaneous Development with The Times



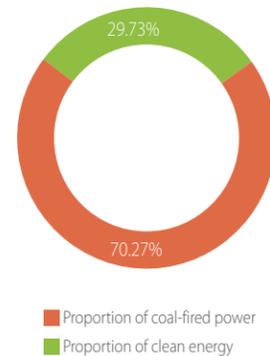


China's economy witnessed a year full of opportunities and challenges in 2015. In an effort to promote the "new normal" of economic growth, China has formulated development strategies and plans, such as reinforcement of the reform of state-owned enterprises and the industry, promotion of the green development, implementation of the "One Belt One Road", and promotion of innovation-driven development, not only providing enormous opportunities but also setting higher requirements for corporate development.

As an energy company dedicated to providing power to the development of China's economy, China Power sticks to the development concept of "integrity between knowledge and action", positively following the current macro-economic situation and the development requirements of economic "new normal" to regard innovation as a means of corporate development and industrial structure upgrading and to implement strategic plan into specific working tasks to facilitate the Company's constant development.

Restructuring and Clean Development

The Company has taken positive steps to implement the national development requirement of "coordinately promoting new industrialization, urbanization, informationization, agricultural modernization and greening", restructuring our development model by significantly increasing the proportion of clean energy to promote green development. The Company expands hydropower development while ensuring the stable development of coal-fired power, so as to advance the development of new energy industries and extend business range of power service. In the whole 2015, coal-fired power has accounted for 70.27% of the total power generation while clean energy has accounted for 29.73%.



Clean production of coal-fired power. Regarding clean production of coal-fired power as an important instrument for our clean development, the Company is phasing out coal-fired power generating units of 200MW or below and constructing large-capacity and high-parameter coal-fired power generating units to increase the efficiency and reduce emission in the drive of clean and efficient coal-fired power generation and the strategy of building large power generating units. In 2015, 2x1,000MW power generating units of Pingwei Project III has been formally put into operation; 2x660MW of Pu'an Project, 2x1,000MW of Shentou Project II, 2x660MW of Dabieshan Project in Hubei have been officially approved.

The Company will proactively develop highly efficient large clean coal-fired power generating units and transform part of coal-fired generating sets into combined heat and power generation systems in areas where national coal-fired power generating bases and important electricity supply lines are planned to be built.

Constant promotion of hydropower. Making full use of our experience in hydropower project construction, production and operation management, catchment central control optimization and our advantages in manpower, the Company strengthens the integration and management of the business module of hydropower and enhances the management capability to pursue clean development. Up to the end of 2015, the Company's attributable installed capacity of hydropower reached 2,962.4MW and 15.1MW for the newly operated.

the Company's attributable installed capacity of hydropower

2,962.4^{MW}

the newly operated

15.1^{MW}



▲ Ma Ji Tang Hydropower Plant, the first low-head tubular units in China

Diversified development of new energy. The Company constantly develops various clean energy projects, expands the program of existing hydropower generating sets and signs joint development framework agreement for new energy in order to increase the proportion of installed capacity of new energy.

Besides, the Company develops distributed power network and the comprehensive energy service of direct power distribution and sales, takes energy service as core business, and realizes the transformation from a pure energy supplier to a comprehensive service provider.



Types of clean energy planned by China Power

Shentou Power Plant invested in photovoltaic power generating projects

Case study

Shentou Power Plant has been investing in photovoltaic power generating projects built on old ash field. It makes full use of high-efficiency polysilicon photovoltaic components to generate power and takes advantage of the rich photovoltaic resource in Shuozhou to reduce fossil fuel consumption and emission of greenhouse gases and to help with earth covering and dust suppression work in Shentou's old ash fields. Thereby, the ecological environment has been improved and it is a positive example of photovoltaic power utilization for the surrounding areas.



Safety Improvement and Steady Development

The Company adheres to the safety philosophy that “no risks are uncontrollable, no breaches are unpreventable and no accidents are unavoidable” and regards safe production as the prerequisite for stable power supply and the Company’s sustainable development. In 2015, 25 general emergency plans, 350 special emergency plans and 611 on-site handling plans were revised or issued, and all power plants completed the filing of emergency plan proposals for assessment. 716 emergency drills have been organized, with turn out of 11,701 participants.

emergency drills

716

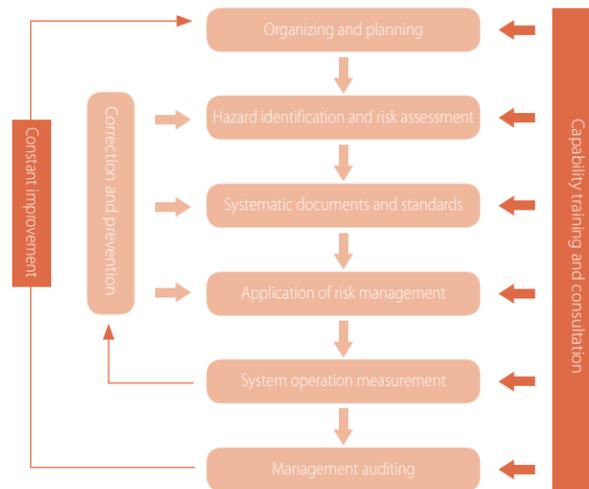
a turnout of participants

11,701

Safety management

· Safety management mechanism

The Company establishes and constantly enhances its safety management mechanism, which is a closed-loop improvement system incorporating organizing and planning, hazard identification and risk assessment, management auditing, and constant improvement.



· Safety management goals

In an effort to achieve “Seven Non-Occurrence”, and with an emphasis on developing management mechanism for safe and healthy environment, the Company reinforces basic management of safety production, strengthens implementation of responsibility, intensifies hazard control, improves assessment mechanism, enhances safety risk control capability, and promotes intrinsic safety.



“Seven Non-Occurrence” of safety management in China Power



· Safety emergency management

In order to improve the emergency management mechanism, the Company has updated its contingency plan and organized every unit to revise and refine their specific contingency plans and on-site emergency response measures. By establishing regional linkage mechanism for emergency, carrying out emergency training and drills, and organizing dry-runs of specific contingency plans, the Company enhances its management ability and response speed for emergencies.



▲ Emergency drills at power plants of the Company in 2015

Safety training

The Company has established a multi-level safety training system with training sessions tailored for each level, so as to ensure full awareness of safety by the employees and to enhance the overall safety level of the Company.

Decision making layer	Management layer	Executive layer
<ul style="list-style-type: none"> · Study laws and policies on safety production so as to know, to understand and to use the law · Ensure making law-based decisions and conducting legal compliance management · Keep close reference to realities, analyze safety situation correctly, adopt safety management measures · Establish and improve safety responsibility regimes to make feasible decisions on safety production 	<ul style="list-style-type: none"> · Be good at learning and using regimes and standards, analyze safety situation, summarize safety regularity, formulate prevention measure, ensure the improvement of regimes and standards and the duly fulfillment of implementation · Be good at learning and using new technology, constantly improve production process and equipment level, enhance accident precaution ability · Constantly learn and use new concept, transform afterwards management into beforehand management and passive management into active management 	<ul style="list-style-type: none"> · Regularize full-range education and training to ensure the “four duly fulfillment” of training staff, time, content and effect · Institutionalize the training for the newly recruited employees, insist on three-layer safety education, ensure training quality · Standardize the training for special operation personnel, pay attention to operation skills, safety and standard training · Functionalize onsite education training, render tailored teaching to suit various recipients, locations, stages, tasks and posts

Levels and highlights of safety education and training



Drawing on the experience of nuclear power safety management, the Company has established an authorized training system and incorporated safety education and training into the essential conditions for employees to take their posts. The Company introduces Prevent Human Error Training adopted by nuclear power companies to improve employees' ability to follow procedures, eradicate human errors, and prevent accidents due to human factor.

Introducing prevent human error training from nuclear power companies to enhance employees' safety awareness

Case study

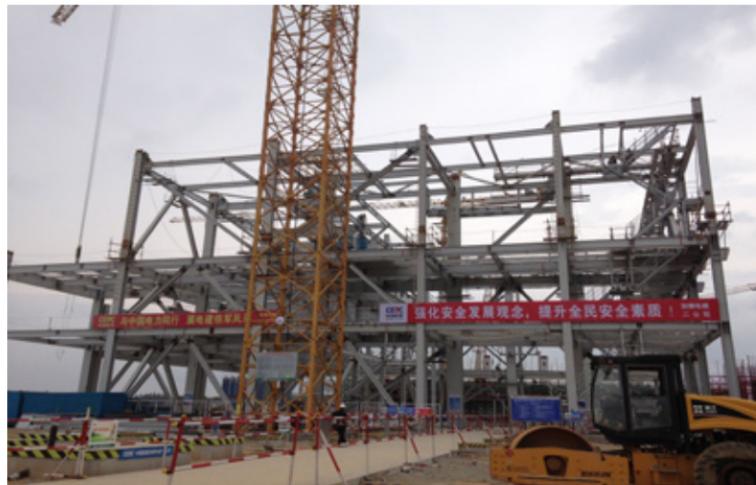


China Power attaches importance to enhancing employees' safety awareness, regarding safety awareness enhancement as a significant factor to ensure safety level. Hence, we have introduced Prevent Human Error Training adopted by nuclear power companies into our employee training to enhance their safety awareness. As an important means for nuclear power companies to prevent safety issues caused by human errors, Prevent Human Error Training plays a critical role in ensuring the safe operation of nuclear power. In 2015, China Power organized staff to participate in Prevent Human Error Training held at Shandong Nuclear Power and our power plants also carried out their own Prevent Human Error Trainings, constantly enhancing employees' safety awareness.

Quality and safety of projects

· Project safety

Safety management of outsourcing projects is a difficult point and a weak link in the safe production management. With great emphasis on the "safety management of outsourcing infrastructural projects and labor employment", the Company maintains a strict scrutiny standard for capabilities and qualifications of suppliers, intensifies safety training for outsourcing teams and reviews their safety assurance ability with dynamic evaluation, all in stringent compliance with the Regulation on the Safety Management of Outsourcing Projects. For projects under construction, we establish safety supervision offices, comprised of project proprietor, engineering company or general contractor and supervision company, and divide the construction site into several management regions to substantially promote regional safety management with clear safety management responsibility for each level and the management of specific region by specific personnel to ensure the safety of the projects.



▲ Safety construction site of Pu'an Power Plant

· Project quality

Seeing the assurance of project quality as an importance means to guarantee the safety of operation and production, the Company requires each construction unit to strictly comply with relevant rules on quality management, and carries out quality inspection and supervision so as to offer timely suggestions for rectification against on-site quality hazards. A strict standard for project acceptance is adopted for the purpose of project quality.



Operation safety

· Safety groups

As the most basic level of organization, a group is the fundamental unit for corporate safe production. The Company conducts team building activities and performance assessment. We strengthen the safety awareness of the group members by advocating the idea that "breaching rules are like accidents". The Company also attaches importance to the safety management of production site and strictly implements the safety working regulations. At various stages such as planning, preparation, implementation and summarization, we set specific operation methods, procedures, measures, standards and responsibilities for the achievement of standard operational conducts and controllable safety and quality. The group leader shall play an exemplary role to motivate the entire group to improve its safety level.

Management of safety groups in Changshu Power Plant

Case study



Aiming at establishing Groups of Five Orientations (Learning-oriented, Safety-oriented, Value-oriented, Innovation-oriented, Harmony-oriented), Changshu Power Plant constantly innovates group management modes, making groups the solid foundation for the Plant's various activities. The Plant holds weekly learning activities on safety and carries out identification and risk assessment on occupational hazards on schedule, so as to systematically identify and assess various risks, and to formulate and implement risk control measures. In 2015, innovative achievements of the employees reached a new record. The Plant was credited as the "Outstanding Corporate for Quality Control Group Activities in National Power Generation Industry"; innovation achievements of 6 employees have been awarded a National Honor or Provincial Honor of Jiangsu; one of the groups was named as "National Quality Trustworthy Group", another one received a second prize for "Outstanding QC Group in National Power Generation Industry"; and a third prize in "Technological Achievements of Employees in National Power Generation Industry" was awarded to the innovative QC achievement "Filter Cleaning Installation for Speed Governor Oil in Small Unit of 1,000MW unit in Changshu Power Plant".



Implant safety culture into groups through display panel competitions in Wuhu Power Plant

Case study



By holding a competition for display panels of group safety culture, Wuhu Power Plant extensively promotes the plant's safety culture and concept, implanting safety culture into groups and reinforcing the safety responsibility awareness and the safety precaution awareness of the employees. Each department and group of the plant showed their well-illustrated and creatively-designed display panels to demonstrate their respective features of safety culture and successes achieved in the building and management of safety construction system, creating an atmosphere of safety culture and promoting the intrinsic safety. The display panel of Group Two in Power Distribution was selected to represent Wuhu City in the Competition of Display Panels by Corporate Groups for Safety Culture Promotion in Anhui Province and won the first prize among more than 200 pieces of works. The panel was further recommended to the National Federation of Trade Unions for exhibition and won a second prize award in the National Competition of Display Panels by Groups for Safety Culture Promotion.

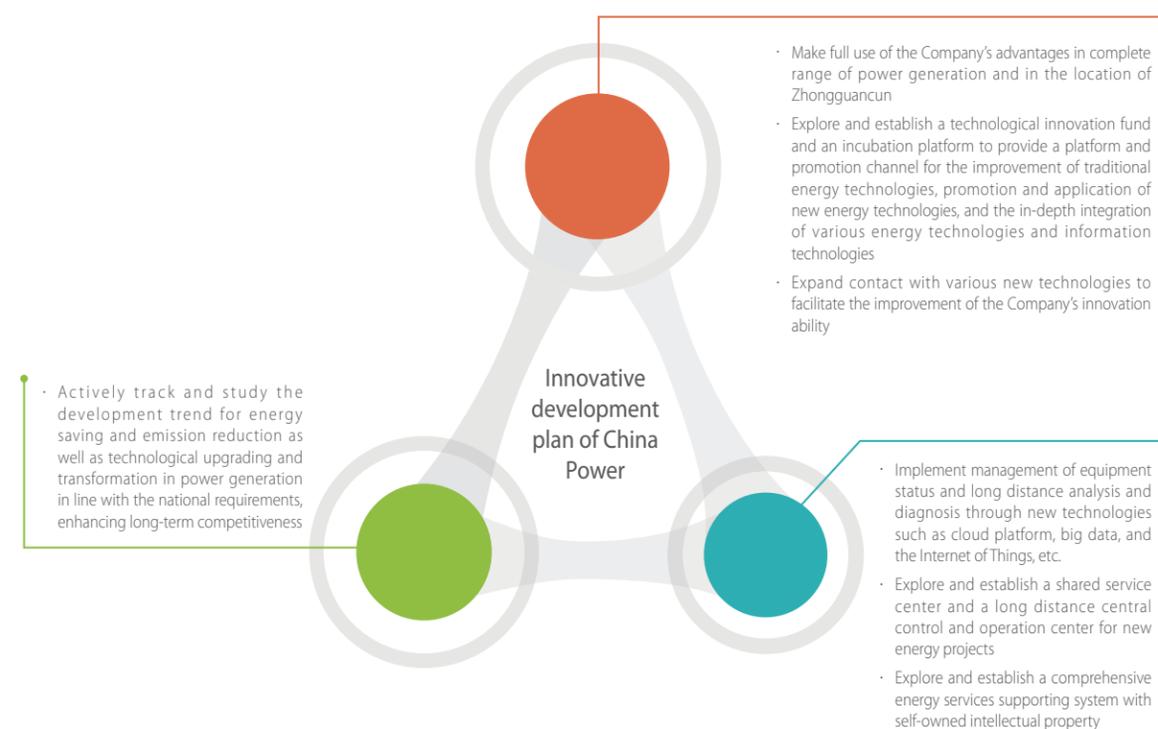
· Safety supervision and hidden danger investigation

The Company improves the safety inspection and supervision mechanism, reinforces the construction of technical supervision network, and implements monthly summary of technical supervision. It also establishes a platform for exchanges on typical problems with the equipment in order to eradicate safety hazards. We deposit and dispose of hazardous wastes in strict compliance with national regulations, hereby substantially improving the management level of hazardous chemicals and major hazard sources. We also carry out special inspection regarding hazardous articles management and intensively investigate key regions for the prevention of fire, explosion, leakage, and pollution. In an effort to spot and handle the hazards and irregularities timely, we stringently implement the itinerant inspection system and reinforce safety monitoring of key links such as transportation, storage, usage and disposal of hazardous chemicals.



Technology Driven and Innovation Development

The Company pursues innovation-driven development, regarding technological innovation as the core factor for improving efficiency, reducing cost, and strengthening competitive advantage. The Company follows the national strategic orientation towards green energy, low-carbon and intelligent development, carrying out projects like coal-fired power generation with ultra-low emission, centralized and distributed power generation by new energy, advanced energy storage and micro-grid construction by taking advanced clean coal-fired power generation technology, energy services and environmental protection services technology, advanced key wind power technology and advanced photovoltaic and solar-thermal power technology as the focus and trend, for the purpose of accelerating technological innovation and achievement commercialization. Leveraging our advantages in operation management of large coal-fired power generating units, catchment hydropower central control and dispatch, and technology innovation for ultra-clean emission, we further expand technological input to pursue development by technological innovation.



In 2015, a total of 45 technological projects were conducted at all units subordinate to China Power, including the completion of on-site evaluation and acceptance of two projects, namely, Research on the Optimized Operation and In-Depth Energy Saving of Turbine Driven Induced Draft Fan in 600MW Ultra-Supercritical Units and Operating Characteristics and Optimization of Three-Tower Integration in Indirect Air Cooling System for 600MW Ultra-Supercritical Units. The Company actively conducts researches on advanced clean technology and technological projects such as the "Research and Application of Enzyme Cleaning Coal Technology" and "Research of Technology Process of Ultra-low Emission of Coal-fired Power Generating Units." We filed 59 patents, among which 2 innovation patents and 28 utility model patents have been authorized. We also filed 15 software copyright applications, among which 10 pieces are granted. 14 technological awards from industry associations of provincial level and above are credited to us. We host or participated in compiling and amending of 8 industry standards. We have membership in 52 industry associations. All units have been actively carrying out various public technological activities and creating an atmosphere for technological innovation, which effectively promote the enthusiasm in making technological breakthrough among employees.

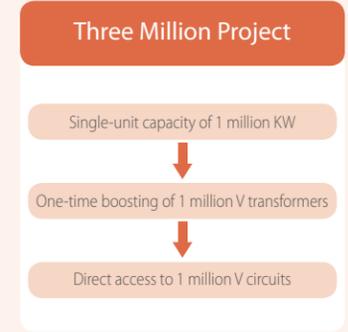


Case study



World's first unit of "Three-Million Project" by Pingwei Power Plant

The Company invests in technological innovation as a means to promote development and enhance sustainability. Pingwei Project III is equipped with state-of-the-art master facilities such as steam turbine power generating units and boiler units with large-capacity and ultra-supercritical technology. The outlet voltage of No. 5 generating unit at Pingwei Power Plant accomplished a one-time increase from 27 kV directly to 1 million V, setting a precedent for power transformers around the world. With a starting point in Huainan, the Megavolt Ultra High Voltage Output Line leads directly to Shanghai, being the UHVAC transmission and transformation project with the largest scale, the biggest investment and the hugest difficulties so far. Integrating the most advanced technologies in the three major sectors of power generation, transmission and transformation, the Project is the world's first "Three-Million Project" and a model for plant-grid cooperation in the new era, writing a new chapter for China's power generation with large units and high voltage.



▲ Unit 5, 1 million KW



▲ 1,000KV transmission lines

Integrity between Responsibility and Profitability: All-Win Development



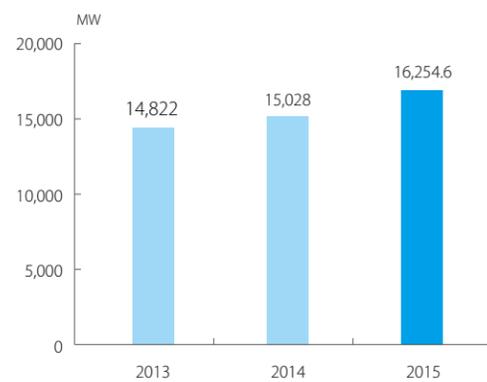


At present, what a company shoulders in society has become a major focus of the public, which requires companies to bring more benefits to stakeholders while developing themselves according to laws and regulations. This not only sets higher standards for China Power, but also brings opportunities to win more acknowledgments and improve its image.

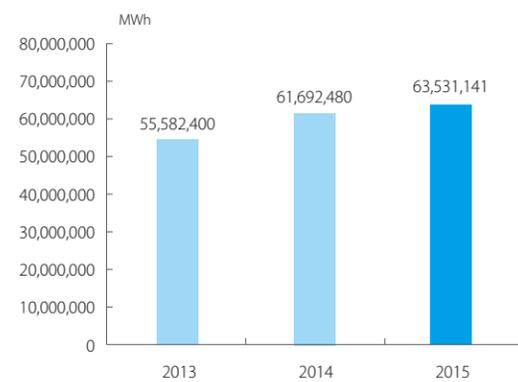
The Company sticks to the idea of "integrity between responsibility and profitability", operates in accordance with laws and regulations and makes steady progress in power supply capacity. On the basis of our own development, we make full use of its advantages to promote the development of the industry and the local economy and strive for an all-win situation.

Stable Power Supply for People's Livelihood

The Company deems it a major responsibility to provide the region and its residents with stable power supply. We improve our power supply by increasing installed capacity to meet the need of the public. In 2015, China Power achieved a rapid development. The total installed capacity of new projects being conducted in the early stage (including projects submitted for approval) exceeded 11,572MW, with 9,320MW of coal-fired power projects and over 2,252MW of hydro power, wind power and photovoltaic projects.



Total installed capacity from 2013 to 2015



Total electricity generation from 2013 to 2015

The Company has formulated working plans for major maintenance and technical upgrading and conducted special examinations to identify and eliminate hidden dangers of the units, in order to improve the availability ratio of the generating units and guarantee the stable operation of the generating units and the power supply for major projects. In 2015, the Company conducted 5 times A-class maintenances and 13 times B-class maintenances to secure stable operation of the generating units and successfully dealt with the challenges in the drought periods and the peak power consumption periods during the summer/winter seasons.

Case study

Pingwei Power Plant, insured power supply for major projects in Anhui Province.

Anhui Huainan New Coal Chemical Industry Base is one of the major chemical industry bases approved by the Anhui provincial government. It mainly deals with the development of coal-based petrochemical industry, alternative fuels, basic chemical industry and high-end petrochemical products. The base needs huge amounts of heat and power supply. Pingwei Power Plant has signed heat-supply agreement with the base to guarantee power supply for large-scale chemical industry base. It also plans to adopt straight power supply method to reduce production cost and provide stable and economic heat supply for the base in a energy-saving and environment-friendly way. Such efforts guarantee the heat supply for the base and the supporting Riverside Town project, making Pingwei Power Plant the guardian of major projects in Anhui Province.

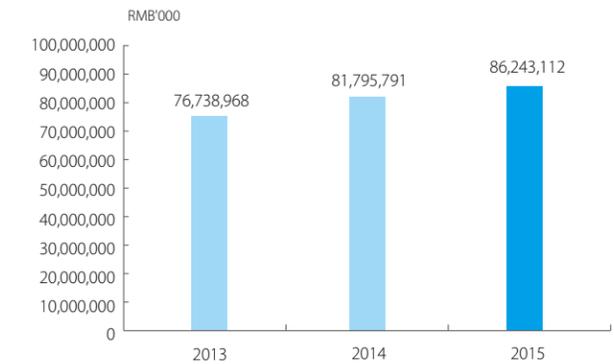


Sharing Benefits with Shareholders

The Company deems it an important management principle to guarantee the maintenance and increment of the asset value. Up to the end of 2015, the total assets of the Company were valued at RMB86,243,112,000, increasing by RMB4,447,321,000 over the previous year; the total liabilities stood at RMB52,017,313,000, decreasing by RMB2,528,717,000. Its debt to asset ratio 60.31%, down by 6.38 percentage points than that of 2014. The Company achieved the goal of maintaining and increasing the value of state-owned assets and registered the best performance in history.

To improve shareholders' proceeds, the Company abides by its commitment of a dividend payout no less than 25%, giving full consideration to factors such as the cash flow, development requirement of the Company and the dividend payout rate of the industry. In 2015, the turnover of the corporate is RMB20,196,670,000, the profit attributed to shareholders is RMB4,149,018,000 and the profit per share is RMB0.58.

While guaranteeing the economic benefits of the shareholders, the Company pays great attention to the communications with shareholders and investors and encourage them to participate in the development of China Power through roadshow, reverse roadshow, investor conference, shareholder conference and daily communication.



Total assets of China Power from 2013 to 2015

Joint Development with Partners

The Company sticks to the principle of equity and reciprocity and makes full use of its advantages to create platforms for cooperation and broaden channels for collaborations, so as to achieve joint development and create value together with its partners.

Responsible supply chain

China Power endeavors to create a responsible supply chain and to maintain stable, sustainable and cooperative relations with its suppliers. In 2015, among a total of 1,020 suppliers, the Company examined 850 suppliers of fuels and other inputs, identified 62 problematic suppliers and issued rectification requests.

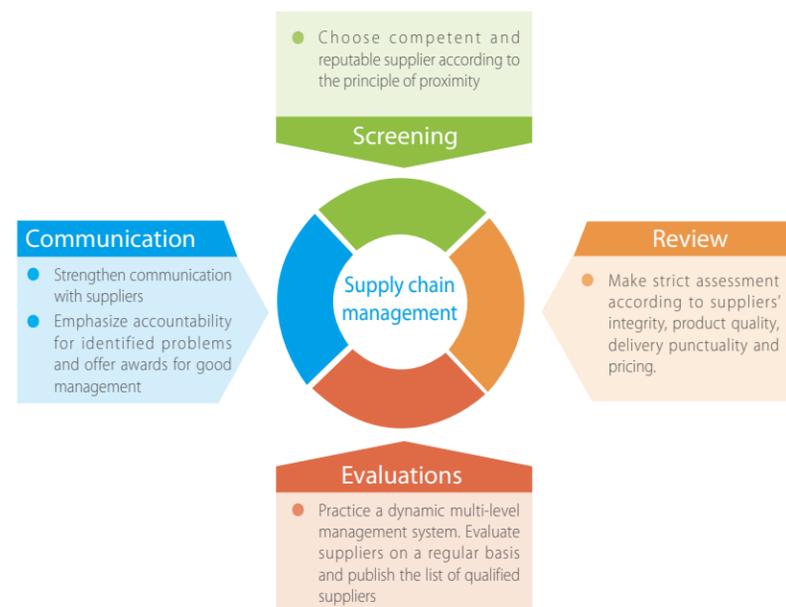
Number of suppliers of fuel and equipment in 2015 in various regions:

Region	Number of suppliers	Percent
North China	151	14.80
East China	368	36.08
South China	45	4.41
Central China	242	23.73
Northwest China	20	1.96
Southwest China	84	8.24
Northeast China	110	10.78



· Supply chain management

While fulfilling its social responsibility, the Company integrates the notion and requirement of social responsibility with the management of suppliers. By formulating contract terms, the Company explicitly requires the suppliers to abide by laws and regulations of environment protection for their product material and adopt green transportation methods by avoiding dust dispersion when transporting commodities. In addition, we have established an online procurement platform to achieve digital, networked and information management of tendering, bidding, bidding evaluation and contracting, creating a healthy commercial ecological environment.



· Partner support

We give full play to our professional advantages and helps our suppliers improve their techniques and services. By proactively developing itself, the Company also motivates the growth and development of its partners. When our partners are in difficulties, we help them get over hardships by establishing long-term cooperation and making stable procurement.

Pingwei Power Plant helps its partners get over difficulties.

Since the coal market was severely hit in 2013, Pingwei Power Plant has lifted Huainan Mining Group out of trouble. This is a great example of the cooperative spirit between coal and electricity.



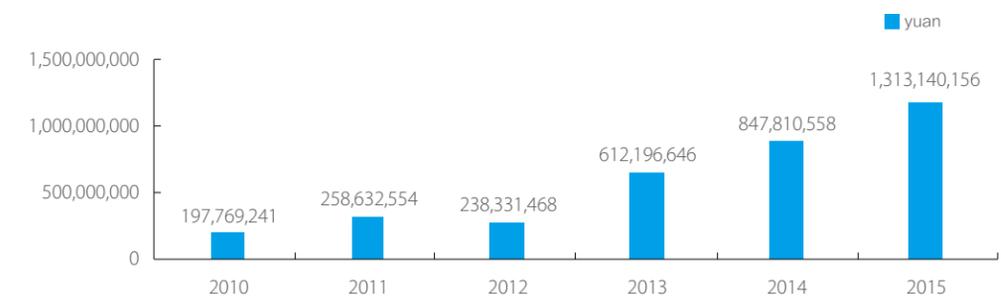
Supporting Local Development with Own Advantages

The Company proactively seeks to establish long-term cooperation and profit-sharing mechanism with local governments and communities. During the process of projects preparation, construction and operation, we work hand in hand with local governments and communities, striving to accelerate local economic development with our own growth and bring more benefits to the local residents.

· Facilitating local economic development

In 2015, the Company paid various taxes of RMB3,826,362,037. With its own economic growth, each power plant made a contribution to the development of local economy.

China Power's income tax payment



· Promoting development of local service sector

The Company makes full use of our influence to promote the development of local hotels and recreational services, contributing to the development of power-related industries.

· Improving local employment

The company deems it an important responsibility to increase local residents' incomes and improve employment level. We constantly offer job opportunities to local residents according to actual business needs and give priorities to local residents in recruitment. In addition, the Company cultivates local technical and managerial personnel, which improves local employment and employees' capabilities.

Ever since its establishment, Fuxi Power Plant has offered about 600 job opportunities to local residents. Dabieshan Power Plant has hired directly or indirectly over 500 local laborers annually in relevant industries, greatly improving local employment level.

Case study



Fuxi Power Plant exerts the influence of a leading enterprise to promote joint development of local industries.

Fuxi Power Plant, as the largest company in Gao County and an important power source of the "West-East Power Transmission Project", bears the historical mission of providing green energy for the economic development of Sichuan Province. From the beginning of the project, Fuxi Power Plant has made great contributions to upstream and downstream industries and advanced freight and logistics services. By making use of its own influences, the plant has formed a comprehensive and circular-economy industry chain of limestone milling, desulphurization gypsum processing, utilization of coal ash, cement construction material and so on, creating far more economic profits than those of power generation.

Integrity between Public and Enterprise: Collaborative Development with Society





Companies should take initiatives to shoulder social responsibility, provide employees with safe and healthy working environment and contribute to creating a harmonious social atmosphere.

China Power sticks to the idea of "integrity between public and enterprise", unremittingly seeking harmonious co-existence and joint development of company, employees and community. China Power regards employees as important as the Company itself and constantly enhances employee management and care. Meanwhile, We expand our social responsibilities from our employees to communities with a broad horizon and play an proactive part in charity work and community construction, contributing to the development of the whole society.

Employees and Development

Employees are the basis on which a company exists and develops and is the most precious treasure of a company. China Power sticks to the idea of "those who work hard are the most important", ceaselessly improves the protecting mechanism of employee's rights, improves staff-choosing mechanism, listens to the voice of employees and shows concerns for them, making them live and work in a happy and healthy atmosphere.

Protection of rights

The Company strictly abides by the "Labor Law" and takes a firm hand in protecting employees' rights by improving their social security system, eradicating child labor and forced labor, and practicing no discrimination against race, religion, gender, color, age or disability. We also offer equal pay for equal work for both male and female employees and provide all employees with competitive salaries. In 2015, the number of registered employees was 10,094, with 100% of them signing labor contracts and enjoying social security insurances. No significant infringement on employees' rights occurred in the whole year. 160 employees quit their jobs, accounting for 1.59% of the total.

The Company establishes a democratic management system with workers congress and labor union as the basic forms and safeguards employees' rights to participate, to express and to supervise. In 2015, the establishment ratio of labor unions at different levels reached 100% and all employees are union members. 10 sessions of workers congress were held during which 244 proposals were submitted.

the number of registered employees

10,094

the percent of signing labor contracts

100%

the percent of enjoying social security insurances

100%

Dedicated collective contracts protect the rights of female employees

Case study



Pingwei Power Plant has signed dedicated collective contracts with female employees to protect their legal rights. The contracts clarify the terms concerning female employees' involvement in corporate management and other special rights about pregnancy, perinatal and lactation period, helping them enjoy equal rights and play a constructive role in the company. This also improves the unity of the company and the centripetal force among employees.



Number of employees of different employment types in 2015

Employment Type	Total number (person)	Percentage (%)
Senior management	15	0.15
Middle management	244	2.42
Employees	9,835	97.43

Number of employees of different age groups in 2015

Age group	Total number (person)	Percentage (%)
29 or under	1,471	14.57
30-39	2,347	23.25
40-49	4,269	42.29
50 or above	2,007	19.89

Number of employees of different genders in 2015

Gender	Total number (person)	Percentage (%)
Male	7,405	73.36
Female	2,689	26.64

Number of employees of different regions in 2015:

Region	Total number (person)	Percentage (%)
North China	2,935	29.08
East China	3,030	30.02
Central China	3,491	34.58
Southeast China	533	5.28
Northwest China	105	1.04

Turnover rate of employees of different age groups in 2015

Age group	Number of resigned employees (person)	Turnover rate (%)
29 or under	74	5.03
30-39	48	2.05
40-49	24	0.56
50 or above	14	0.70

Employee turnover rate in different regions in 2015

Region	Number of resigned employees (person)	Turnover rate (%)
North China	42	1.43
East China	20	0.66
Central China	32	0.92
Southwest China	36	6.75
Northwest China	30	28.57



Health

The Company attaches great importance to employees' health and takes a series of protection measures. Health examination of employees is organized every year. Coverage rates of employees attending the examination and health records reach 100%. We ensure the safety of employees at work by continuously improving their working environment and construction conditions, and equipping them with labor tools and labor protection articles according to relevant standards. In 2015, the Company recorded 273 cumulative working days lost due to work-related injury.



▲ Occupational disease screening in Dabieshan Power Plant

Career development

The Company is dedicated to building a fair, just and open platform for career development and provide effective channels for employees to elevate their values. Administrative channels for employee career development and plans for "dual channel" of skills and techniques have been formulated. Employees can choose their own development direction according to actual situation and career goals. At the same time, the "two-way line-drawing" mechanism of middle and senior management personnel has been carried out, further perfecting staff promotion system

Case study



"Plan my own career", the career development planning competition

To help employees plan their career development in a scientific and reasonable manner, Wu Ling Power Plant organized a career development planning competition named "Plan my own career". Activities include "idea sharing of young employees", "attendees' discussion", "judges scoring" and "rating grades". Assessments are given according to young employees' career planning analysis, environmental analysis, professional orientation, implementation plans and the annual effects. By offering reasonable suggestions to some employee's career development directions and sharing best cases, the Company helps employees resolve the confusion in career development plans and find more suitable directions for career development.

Case study



Establishment of qualification system platform

To help employees plan career development in a scientific and reasonable way, the Company introduced an innovative qualification system. With the assistance of information platform, the Company establishes corresponding qualification systems for different posts and clarifies employees' development directions in view of their individual need. Employees can discern the gap between their own abilities and what is required in an ideal, future post via information platform. In addition, related courses are available on the platform to help improve employees' qualifications of corresponding posts. While promoting the scientific career development of employees, the Company also enhances the level of openness and transparency of staff promotions.

Employee training

To improve the overall quality of the employees, the company constantly standardizes the management of employee training. The Company gives full play to the Technical Skill Training Center and organizes foreign language personnel training programs, skills training programs for college graduates. In addition, we proactively hold skill competitions, motivating employees to work on and improve their skills. In 2015, the Company invested RMB25.477 million on staff training.



Training programs of different employment types in 2015

Employment Type	Training priority	Training sessions (times)	Training time per person (hour)	Training coverage (%)
Senior management	leadership	14	15	22.5
Middle management	Management skills	41	32	63.1
Employees	working skills	995	25	81.6



▲ Training program for management personnel in Fuxi Power Plant



▲ Wuhu Power Plant won the team championship in the SPIC 600MV centralized control competition

Case study



An innovative training method – online training platform (SABA Platform)

The Company constantly innovates the form of employee training. Relying on the technical skills center, we have developed an online learning platform and integrates online and offline employee training. Employees can choose courses they are interested in according to their spare time on the platform via Baidu Post Bar, online communities and credit supermarkets and then gain corresponding credits. The online communication and online Q&A function of the learning platform add a touch of fun to the learning, making it less dull and allowing staff to gain knowledge and make progress in a relaxed state of mind.

Case study



A Wechat official account: Yaomeng Training

To make full use of new types of media and enhance training results, Yaomeng Power Plant has established a Wechat official account called "Yaomeng Training". This account provides services including "training information", "trainee community", "about us" for its subscribers. It centers around the plant's operation tasks and sends information about "training" on a regular basis. Since the platform started operation in March 2015, 857 people have subscribed to the service and 892 pieces of messages have been sent. Everyone speaks highly of this platform.

Care for employees

To enrich employees' life and cultivate their hobbies, the company proactively organizes sports meetings, outdoor activities and so on. In 2015, 309 recreational and sports activities were organized, which greatly relieved working pressure of employees and aroused their enthusiasm.

Yoga Class in Pingwei Power Plant enhances employees' physical and mental health.

To continuously enhance employees' physical health and meet their needs of enjoying a colorful life, Pingwei Power Plant offers yoga courses which have attracted nearly a hundred employees. Yoga relieves employees' fatigue and stimulates their vitality and enthusiasm at work.



Yoga training courses at Pingwei Power Plant

The Company insists on joint development with every employee and bringing every employee, especially special groups, the family-like warmth. A major disease fund has been jointly sponsored by the company and employees to offer financial help to employees suffering from serious illness. In 2015, there were altogether 174 activities of bringing warmth and offering help to financially-troubled employees, retired employees, disabled employees and other special groups, and granted RMB947,994 in financial relief for serious illness to 63 employees, while offering "Golden Autumn Schooling Assistance" bursaries amounting to RMB35,457 to the children of 36 underprivileged employees to continue their studies.

- More breaks and less work
- No night shifts
- Special nursing breaks
- Longer maternal leave if necessary



- Living allowance
- Suitable posts

- Extremely Serious Disease Management Fund
- Proper economic subsidies
- Holiday greetings

- Health examination for retirees
- Holiday greetings

Care for special employees

Painting activity

On June 1st, the International Children's Day, Pingwei Power Plant organized painting activity for employees' children. The theme of the activity is "Paying tribute to the third phase of Million Program and Constructing a harmonious plant". More than 70 children of employees took part in the activity and the youngest child was only five years old. These children gave full play to their imagination and unique perspective and created many interesting paintings. Such kinds of parent-child activities greatly improve staff's happiness and sense of belonging.



Children of our employees are drawing pictures to describe "the Dream of Pingwei Power"



China Power Beijing Representative Office's jogging activity on "the Health Day" for our employees



Shentou Power Plant organizing the activity of "sending coolness in summer"

Care for single employees, and build a platform for friendships and romance

Through refined planning and preparation, Yaomeng Power Plant and Wuhu Power Plant held the blind dating program of "If you are the one" for employees who are single, and provided them with a platform of expressing themselves and finding romance, which not only cared for them, but also enriched their spiritual and cultural life and enabled them to harvest friendship and romance.



Involvement in Public Service and Communities

The Company has constantly engaged itself in the construction of a harmonious society. We proactively make use of our resources to participate in public welfare and community development. The Company is repaying the society with undertakings, wisdom and sincerity and fulfilling our social responsibilities with concrete actions.

Edu-Aid

The Company is committed to promoting the development of local culture and education, encourage and support employees to organize student-aiding activities in different forms and creating an ideal learning environment for local young students by establishing Hope Primary Schools, offering targets donations and providing one-to-one support. We also make donations RMB43,616 to schools and children in poor areas through many channels such as the student assistance activities on the charity website "Azalea", founded by SPIC.

Case study

Dabieshan Power Plant's reading rooms take children to the world of books.

Dabieshan Power Plant is always dedicated to promoting the development of education in poverty-stricken areas and carrying out student-aiding projects for many years. By calling on every employee to donate books to children, the plant is constantly increasing the influence of the reading room project. In 2015, 223 books were donated to Feishadun Primary School, aiming to enrich the knowledge and broaden the horizon of these children.



▲ Dabieshan Power Plant carries out student-aiding projects for many years

Case study

study: Fuxi Power Plant's student-aiding program brings hope to poverty-stricken areas.

Fuxi Power Plant proactively organizes student-aiding activities including "azalea". By improving basic conditions of local education, supporting needy students in various ways, the plant lit the light of hope in these poverty-stricken areas. The plant has signed a strategic cooperation agreement with Yibin College and designated itself as an education practice base, providing free internship opportunities for students every year to help students improve hands-on skills. Meanwhile, employees spontaneously offer financial assistance to 17 students in 5 school in Yibin City, helping children from poor families to finish school.



Blood donation

Voluntary blood donation is an act of love that bonds people together. It helps guarantee medical and clinical use of blood and benefits the health of employees. The Company calls on the employees to proactively involve in voluntary blood donation if physical condition allows. This is a dedication of love to society and will contribute to the construction of a harmonious society where everyone shoulders their shares of responsibilities. In 2015, the number of employees participating in blood donation activities stood at 319 and the total amount of donated blood was 80,900 ml.



▲ Pingwei Power Plant organizes blood donation activity

the number of employees participating in blood donation activities

319

the total amount of donated blood

80,900 ml

Volunteering

Volunteers from the Company stay close with the community and establish tight bonds with those poor families, organizing activities including bringing warmth to lonely aged people, health examination in the community and cleaning public facilities. In 2015, the company organized 52 voluntary activities. 4,003 employees took part in those activities and the accumulated service time reached 8,006 hours.

Case study

Yaomeng Power Plant commits itself to the construction of harmonious communities

Over 60 volunteers of Yaomeng Power Plant organized activities including "learn from Lei Feng and spread love" in Yaodian Community, bringing gifts and performance in forms of singing, opera, cross talk etc., to those lonely aged people. In addition, those volunteers talked with those seniors and provided them with household management service. They also offered some other services for the convenience of those residents. For example, they fixed malfunctioning computers and other small household appliances, gave health consulting advice, cleaned the places of recreation and sports including sports center and clubs. These activities were well received by the employees, their families and community residents.



▲ Volunteers from Yaomeng Power Plant are helping residents in communities



Future Prospects

2016 marks the beginning of the national economic "13th Five-year Plan" of China. Faced with the "new normal", the world economic growth are likely to remain weak in the long run while the domestic economy has shifted into a lower gear of medium growth rate. As a result, the demand for power supply is inadequate. With the ongoing transformation of energy structure, the reforms of electricity system and state-owned enterprises and the structural reform of the supply side, power companies are confronted with severe challenges as well as enormous opportunities resulting from the complicated external situation. Looking into the future, China Power will fully grasp the three features of the "new normal", namely, speed change, structural optimization and dynamic transformation, and proactively adapt to, grasp and lead the "new normal".

Pursue harmonious development with nature: According to the national energy development strategy, the Company will make great efforts to develop clean energy. We will seize the opportunity of the supply side reform to improve our energy structure and develop clean energy including wind power, photovoltaic power and hydropower. Also, we proactively develop highly efficient large clean coal-fired power generating units in areas where national coal-fired power generating bases and important electricity supply lines are planned to be built. And the Company will conduct heat supply upgrading on some coal-fired power generating units to promote coal-fired power ultra-clean upgrading. We will establish a reward and punishment system for environmental protection work and carry out the responsibility assessment of environmental protection and emission reduction targets. We will continue to promote green office and advocate for low-carbon and sustainable office habits.

Pursue development with the times: We will proactively cope with the electricity reform and conduct policy research and marketing training. We will give full play to platform and reduce fuel cost through the economy of scale. We will enhance project budget management and maintain the cost within a reasonable range. We will strengthen investment on science and technology research and carry out projects like "Technological Scheme Research and Demonstration Projects of Digitized Power Plants". We will enhance technical supervision management and construction quality and safety management, strengthen team safety construction, optimize the safety production supervision system, and improve the safety production level.



Pursue all-win development: We will continue to promote the goal of "a blue chip worth 100 billion yuan". We will standardize the division of duties and posts, remodel management regulation system, optimize the managerial process and improve the supervision and safeguard mechanism. We will establish a compound supervision system, including the Board of Supervisors and the auditing, legal and finance departments, to strengthen supervision and risk control. We will develop integrated energy services, such as distributed electricity network and direct sales and distribution of electricity, so as to position itself as an integrated energy supplier focusing on energy services.

Pursue collaborative development with society: We will promote team building through innovative mechanisms such as the introduction of professional managers. We will accelerate the development of our staff team by formulating an overall career development plan, give emphasis on talent reserve and career development channels, and promote the in-depth application of SABA online learning platform and Human Resource II. We will improve the salary-incentive mechanism by exploring a variety of medium- and long-term incentives including stock ownership, and implement the performance assessment system among all staff based on their contribution. We will persist in carrying out public welfare activities such as poverty alleviation and student assistance by donation and enhance communication and friendship with local community residents through voluntary services. We will adhere to the characteristic of "human-oriented" and pursue the harmonious development with employees and local communities to make a new contribution to social development.





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Feedback

Dear readers,

Thank you for reading the report! We would be pleased to receive your comments and suggestions so that we can make improvements in our future work.

Please answer the following questions and fax the form to: 852-2802 3922, or send it to our E-mail: ir@chinapower.hk.

"√" in appropriate boxes

	Yes	Neutral	No
Do you think the report highlights the Company's work and impact on the economy, society, and environment?			
Do you think the information and index disclosed by the report is clear, accurate and complete?			
Do you think the content and style design is helpful for reading?			

Open questions

1. Which part of the report are you most interested in?
2. What information do you think needs to be reflected in the report?
3. What suggestions do you have on our future corporate social responsibility reports?

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