



大唐国际发电股份有限公司
DATANG INTERNATIONAL POWER GENERATION CO., LTD.



2017

Social Responsibility Report
(Environmental, Social and Governance Report)

*To ensure we maintain the political characteristics of a central SOE
Datang Power must honor its mission and become an*

Industry leading world-class comprehensive energy company



The origins of our logo come from our name in ancient Chinese calligraphy. Appearing like a bell and standing as stable as a mountain, the logo embodies the pragmatic and steady approach of our company. The circle and square represent fairness, justice, unity, and harmony, while the protruding point at the top of the logo indicates our rising development and unlimited potential. The color red is typical of China and is characteristic of our strong national features and ambitious prospects.

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Message from the Leader



Chen Jinhang, Chairman of the Board
Datang International Power Generation Co., Ltd.

Message from the Chairman of the Board

Looking back on 2017, the year is an important period for Datang Power in its improvement of electricity development. In the face of many obstacles, Datang Power unites employees and stakeholders to make continuous progress.

Policy guidance. We closely follow the Party Central Committee's policies and have leveraged development opportunities made possible by the 13th Five-Year Plan. We deepened the supply-side structural reform, undertook the five tasks of "cutting overcapacity, reducing excess inventory, deleveraging, lowering costs, and strengthening points of weakness", and pursue innovative, coordinated, green, open and shared development, fulfilling our economic, political and social responsibilities. We adhere to the national policy of conserving resources and protecting the environment, promote green, low-carbon development of the energy industry, and practice the concept of "lucid waters and lush mountains are invaluable assets". We also increase efforts to develop new energy and enhance management of energy conservation and emission reduction, initiating a new stage in promoting green, low-carbon and sustainable development and making contributions to the Beautiful China Initiative.

Responsibility fulfillment. We promote the Datang spirit of "pragmatic, dedicated, innovative, and progressive" and take work safety as our first priority in fulfilling major political and social responsibilities, i.e. guaranteeing power supply and people's livelihood. We put people first and improve corporate management and responsibility. Confronted with fierce competition and challenging operations, we promote innovation in technology and management to support the development of a stable electricity market. By setting up various communication mechanisms, we strengthen communication with stakeholders. It is the understanding and trust of all parties that enable us to overcome obstacles and thrive.

Looking forward to 2018, the 19th CPC National Congress has described the blueprint of achieving "The Two Centenary Goals" for us, ushering in a new journey to move on to all-out efforts to build a great modern socialist country.

The Party's Leadership. We give priority to the Party's political construction and protect the unified leadership of the Central Committee of the CPC. We will work harder to uphold the authority and centralized, unified leadership of the Central Committee, and closely follow the Central Committee with Comrade Xi Jinping as the core in terms of our thinking, political orientation, and actions. We will deeply implement the spirit of the 19th CPC National Congress and the deployment of the Central Economic Work Conference, and accelerate the building of an industry-leading, world-class comprehensive energy company to make contributions to securing a decisive victory in finishing the building of a moderately prosperous society in all respects., and striving for the great success of socialism with Chinese characteristics for a New Era.

Carrying forward our cause into the future. We will continue to make effort in keeping our values and the benefit-oriented principle, implementing the corporate mission of supplying clean electricity, and accelerating and deepening the reform of state-owned enterprises and electricity systems. We will build a clean, low-carbon, safe and highly-efficient modernized energy system, and promote efficient energy production and consumption, so as to provide safe and high-quality power supply for the economic and social development. We will enhance communication with stakeholders, implement our original missions to repay shareholders and society, and strive to earn recognition and support from the society.

The picture of the new era and the new stage has spread in front of us, and we will make adequate preparations for overall deployment and uphold the "value-added, eco-friendly, legal compliant, innovation-driven and CSR-minded" strategic goal under the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we will devote to continuous progress in the journey to build an industry-leading, world-class comprehensive energy company with more epochal, advanced and instructive goals.

Chen Jinhang, Chairman of the Board
Datang International Power Generation Co., Ltd.



Wang Xin, General Manager
Datang International Power Generation Co., Ltd.

Commitment from the General Manager

We are faced with new missions, new perspectives, and new accomplishments in this new era. At this critical moment when socialism with Chinese characteristics has entered a new era, we maintain our values and the benefit-oriented principle, and make every effort to build a first-rate team. We maintain steady and rapid progress which has allowed us to surpass our industrial peers. We do all this while shouldering the responsibilities of a central state-owned enterprise.

Looking back on 2017, we have maintained stable performance in work safety. We deepened the "seven enhancements" (strengthening management of science and technology development, technical performance, production, training, statistics and analysis, appraisal and accountability, and insurance claims), standardized team building and maintenance management, increased the safety awareness among all employees, and maintained stable and safe production. We also ensured power supply for major meetings and events, including the National People's Congress (NPC) and Chinese People's Political Consultative Conference (CPPCC), the Belt and Road Forum for International Cooperation and the 19th CPC National Congress.

This year, we saw profits significantly grow. Major performance indicators such as profitability and power generation were significantly improved, reaching the leading level of core listed companies of the China's five power generation groups. We broke several records consecutively, including the highest single-day power generation, highest single-month power generation, and highest cumulative power generation.

2017 was also a year full of breakthroughs. We accelerated the implementation of key projects and had great achievements. Inner Mongolia Tuoketuo Power Generation Company put the No. 10 power generating unit into operation, becoming the largest thermal power plant in the world; Qinghai Energy Company started power generation in the 5th phase of the Golmud project, continuing to maintain the largest PV power station in Datang Power; Sichuan Ganzhi Hydropower Company put all power generating units into operation, becoming the largest hydropower station of Datang Power.

Strengthening Party self-disciplines further improved us in a comprehensive way. We earnestly studied and publicized the spirits of the 19th CPC National Congress, established an upright political atmosphere within the Party, and implemented elements from the CPC Central Committee's Eight-point Regulation. We paid more attention to law-based governance, rectified existing problems timely, and simultaneously promoted the construction of a long-term mechanism.

Looking into 2018, we will continue to improve the company. Laying equal stress on connotative development and extended development, and on green development and innovative development, we will promote our quality and efficiency to a new level through optimized development, consolidate our position and finally surpass our counterparts. Guided by the spirits of the 19th CPC National Congress, Datang Power is confident in a bright future.

We will create value while further improving our competitiveness. We will adapt to the changing marketplace and establish an adequate decision-making mechanism and a risk control mechanism.

We will strengthen safety by firmly establishing safety concepts and responsibility, deepening the "7+1+1" work safety management to ensure stable and safe production.

We will accelerate the adjustment of our four main business segments by focusing on projects from the Belt and Road Initiative, coordinated development of Beijing-Tianjin-Hebei region and regional energy restructuring.

We will promote innovation in management model in light of the 13th Five-Year Plan, the upgrading of the power generation industry and coping with market competition.

We will remain true to our original aspiration and keep our mission firmly in mind. In the coming year, we will cooperate with our stakeholders to brighten the path to be an industry-leading, world-class comprehensive energy company.

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Wang Xin, General Manager
Datang International Power Generation Co., Ltd.

Company History

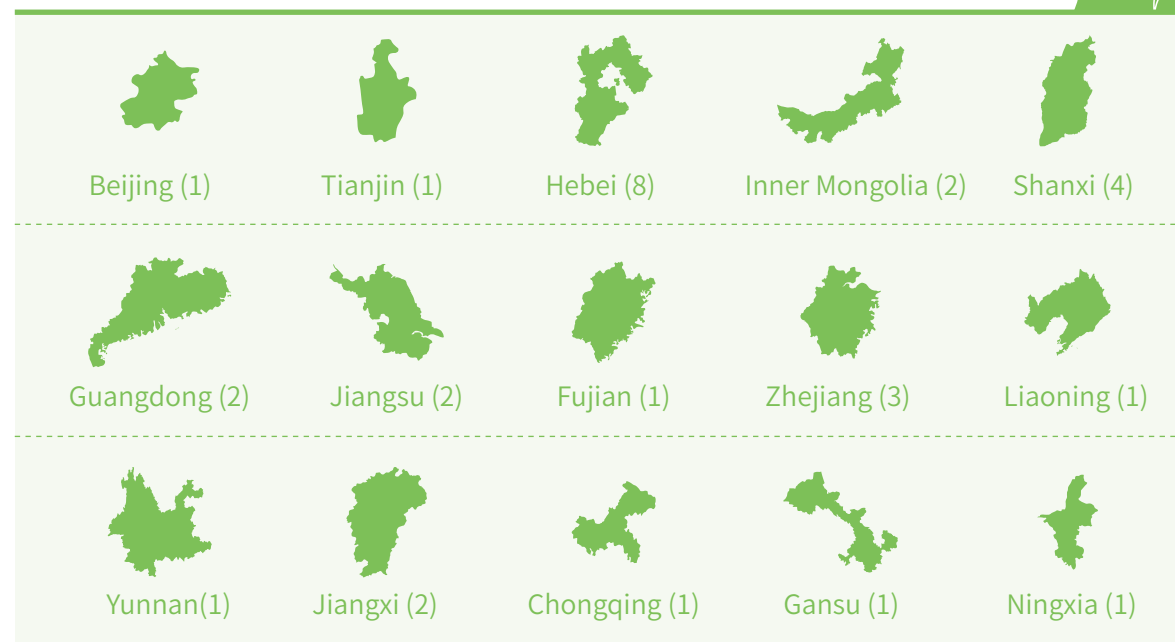
Datang International Power Generation Co., Ltd. was founded in December 1994. The company is a power generation enterprise and its headquarters are in Beijing. In 1997 Datang Power was listed on the Hong Kong (SEHK) and London (FTSE) stock exchanges. In 2006 the company was listed on the Shanghai Stock Exchange. Over the past 24 years, Datang Power has grown from four thermal power plants with an installed capacity of 2,850 MW into one of the largest comprehensive energy companies in China. Headquartered in northern China, we are rooted in western China, and expanding towards China's coasts. We have subsidiaries and ongoing projects in 18 provinces. With power generation as the major business, we cover various sectors and industries including coal, transportation, circular economy and electricity sales. We have transformed from a thermal power generation company to an integrated energy enterprise with operations in different sectors and industries. In 2017, we accelerated the transformation of development mode, strengthened structural adjustment, and improved the development quality and business performance, achieving remarkable results.

We have been listed on the "Platts Top 250 Global Energy Companies" for the 11th consecutive year, "Top 100 Listed Companies in China" and "Top 100 Most Trustworthy Listed Companies in China", and won the "Corporate Gold Award", the Asset Best Initiative in Environmental Responsibility and the Asset Best Initiative in Social Responsibility by the Asset Magazine, and won awards of Best Investor Relation and Best Annual Report Design by China Financial Market.



Business Layout

Thermal power projects in operation

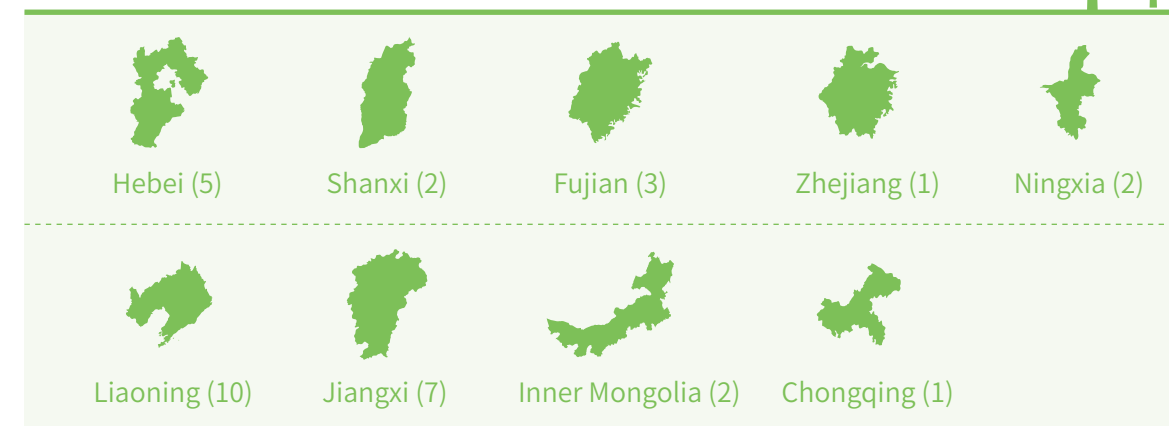


Hydropower projects in operation

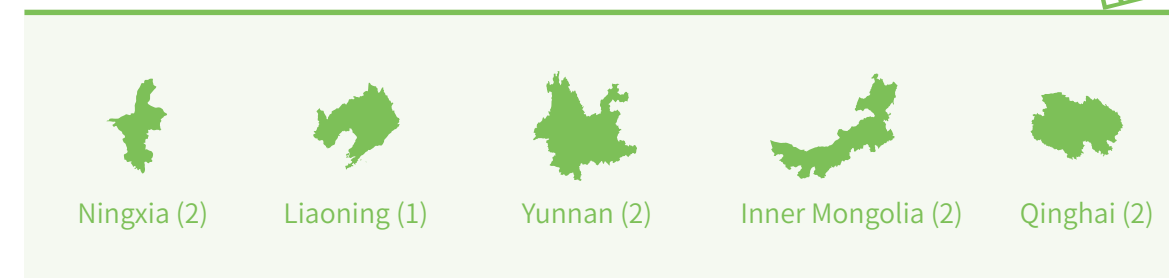


By constantly innovating and exploring new ways to improve our operations, we have steadily improved our corporate governance system, our institutional framework, our management and our approach to technology. Based on the three-tiered management system composed of the shareholder meeting, Board of Directors, Board of Supervisors and Management, we combined strengthening Party leadership with improving corporate governance, emphasized the status of Party organizations in corporate governance structure, and defined duties, powers and procedures of departments including Party organization according to the requirements of the Organization Department of the Central Committee of the CPC and Party Committee of the SASAC that the overall requirements of Party building in state-owned enterprises should be written into the articles of association.

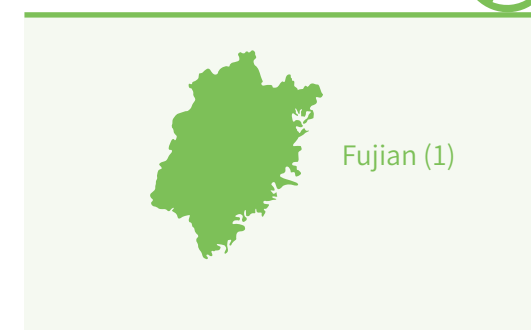
Wind power projects



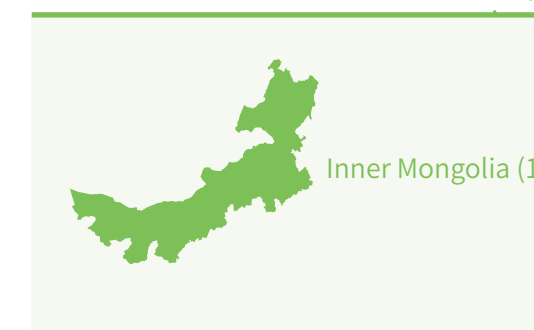
PV projects



Nuclear projects (participation)



High-aluminum fly ash alumina extraction projects



Strategic Development

Following the development strategy, corporate mission, core concepts and corporate spirit of China Datang Corporation, and guided by "One-Five-Eight" Development Strategy, we are implementing *the 13th Five-Year Development Plan of Datang Power* to build an industry-leading, world-class comprehensive energy company.



"One-Five-Eight" Development Strategy of China Datang Corporation

Development Vision

To build a well-structured world-class energy group with scientific operations, property, and enormous potential.

Strategic Goals

Value-added, Eco-friendly, Legal Compliant, Innovation-driven and CSR-minded.

Eight Sub-strategies

Core business, Supporting businesses, International businesses, Group management, Professional operations, Talented teams, Innovation, Culture brand.

Our Mission

To provide clean power
To improve the quality of life

Our Spirit

To be pragmatic, dedicated, innovative, and progressive.

Our Core Philosophy

Our Values
To be benefit-oriented



Our Construction Goals

We will safeguard the political characteristics of a central SOE and build an industry-leading, world-class comprehensive energy corporation.

Our focus during the 13th Five-Year Plan period

We will develop renewable energy and clean coal power in an orderly way, taking the initiative to developing large and medium-size hydropower facilities, prioritizing the development of combustion engines, and transforming and upgrading the power generation industry. We will further incorporate the sale of heat to our operations, steadily promoting our coal operations in conjunction with our core power generation business while accelerating our internationalization. We will also explore new areas of development by entering the sale and allocation of electricity and facilitating a carbon trading market. We will continue to transform our company from a unitary power generation enterprise into a comprehensive energy service provider.

CSR Management

Keeping our mission in mind, we have consistently adhered to the concept of social responsibility in development, faithfully fulfilled our economic, political and social responsibilities, and assumed the new mission entrusted by the new era. We are determined to build a world class company that "is value-added, eco-friendly, legal compliant, innovation-driven and CSR-minded."











Responsibility management. We publish CSR Report annually to disclose operation information and help establish a closed-loop management system for social responsibility. We also set up media channels and Open Day for the general public, and our official website includes a special social responsibility column for stakeholders to gain a better understanding of our company, thus improving their cultural identity and value recognition.

Responsibility issues. Based on proposals from the "Report Index for Environment, Society and Governance by the Hong Kong Exchange", and the GRI Sustainability Reporting Standards, we benchmark against the best CSR reports overseas prepared by our peers at home and abroad, and take into account the electricity industry and the Company's development situation to identify key issues that have great impacts on stakeholders and the Company's sustainable development.

Substantive issues	
No.	Issues
1	Clean Power Generation
2	Environmental Protection
3	Ultra-low Emission
4	Safe Production
5	Biodiversity
6	Demand-side Service
7	Resource Conservation
8	Risk Management
9	Legal Compliance
10	Democratic Management
11	Scientific Innovation
12	Organization Management
13	Occupational Health
14	Compensation and Welfare
15	Employee Development
16	Community Development
17	Voluntary Service
18	Targeted Poverty Alleviation

Stakeholder Management

We continuously strengthen communication and exchange with stakeholders, establish diversified communication mechanisms and channels to listen to voices from stakeholders, and integrate their expectations and appeals into the company's business strategy and operations. Therefore, we have won support from stakeholders and improved their brand recognition and emotional recognition of our company.

Stakeholders	 Government	 Shareholders	 Staff	 Community		 Client	 Partner	 Environment	 Social Organization
Concerns	National policies and energy security Power and heat supply Legal compliance Tax Structural optimization Increasing employment Management and technical innovation	Profit level Standardized operations	Democratic rights Health and safety Salary and wellbeing Personal development Education and training	Harmonious community Public welfare cause Safety and environmental protection		Safe and stable supply Electricity price and heat price	Honesty and legal compliance Long-term cooperation	Energy conservation and emission reduction Biodiversity protection Green operation	Contributions Impact on sustainable development
Communication Methods	Laws, regulations and policies Relevant meetings Report works Statistical statements Information submission High-level meetings	General meetings Company announcements Periodic reports Contracts and agreements	Staff representative's meeting Reasonable suggestions Interview Collective contracts Labor contracts Openness of company affairs	Collaborative construction Public welfare activities Safety and environmental protection publicity		Contracts and agreements Power and heat products Relevant technical services	Contracts and agreements Products and services	Environmental information disclosure Energy conservation and emission reduction promotion Environmental impact assessment	Meetings Activities
Performance Indicators	Power generation capacity Total Profit and tax Jobs provided Innovation results	Shareholder dividends Shareholder rights and interests Sales income Company profit	Work environment Accident rate Labor union membership rate Collective contract coverage ratio Salary levels Investment in staff training Staff turnover rate	Investments in community building Public welfare investment Number of pollution complaints		Client satisfaction level	Honesty level Contract completion rate Period of cooperation Responsible purchasing Profit	Installed capacity Ultra-low emission transformation of units Proportion of clean and renewable energy Energy conservation indicators Emission reduction indicators	Frequency and depth of participation in activities Membership fee amount
Main practices in 2017	<ul style="list-style-type: none">● We undertook 2 projects of National and Provincial Key Technology R&D Program, organized and participated in the compilation of 5 industrial and higher level standards● The "Technics and industrial demonstration of producing alumina with calcium silicate as byproduct" research project was awarded second prize by the Science and Technology Progress Award of the China Association of Circular Economy.	<ul style="list-style-type: none">● The proposal to revise the <i>Articles of Association of Datang International Power Generation Co., Ltd</i> was reviewed and approved at the 2nd Special Shareholder Meeting.● The 2017 Interim Results Presentation was held in Shanghai and Hong Kong.	<ul style="list-style-type: none">● The 5th Meeting of the 5th Employee Representative Assembly & 2017 Work Meeting was held in Beijing.● The 11th "Datang Cup" Competition was held in Chongqing Pengshui Hydropower Company by the Association of Culture and Sports of Chongqing, Sichuan and Tibet.	<ul style="list-style-type: none">● The Party Member Volunteer Service Team of Hebei Douhe Power Plant held cultural activities for the Dragon Boat Festival in Qianhou Village, Lubei District, Tangshan.● Chongqing Pengshui Hydropower Company hosted an open house event with the theme of "Lighting the Future with Clean Energy".● Hebei Tangshan Thermal Power Company disclosed its pollutant emission data to the public.		<ul style="list-style-type: none">● Jiangxi Fuzhou Power Generation Company implemented a total of 30 direct electricity contracts in four batches in 2017. The contract quantity accounted for 21.2% of the total, and was 9.37% higher than its capacity.	<ul style="list-style-type: none">● Datang Power signed a strategic cooperation framework agreement with Xinjiang Goldwind Science and Technology Co., Ltd.● Datang Power signed a strategic cooperation framework agreement with Power China International Group Limited.	<ul style="list-style-type: none">● The ultra-low emission transformation of 7 units was completed.● Sichuan Ganzi Hydropower Company organized the yearly fish breeding for the Changheba Hydropower Station Reservoir area and the Huangjinping Hydropower Station Reservoir area.	<ul style="list-style-type: none">● The Youth Volunteer Service Team of Shaoxing Jiangbin Thermal Power Company and the Wolf Warrior Rescue Team of Shaoxing Rescue Association reached a cooperation agreement to carry out voluntary work.

Value-added

The power industry is one of the basic industries that support the national economy and people's livelihood. Power supply and security are critical to the implementation of national security strategies and the overall economic and social development. The Report to the 19th CPC National Congress pointed out that we must promote a revolution in energy production and consumption, and build an energy sector that is clean, low-carbon, safe, and efficient. As a comprehensive energy service provider, Datang Power adheres to scientific development, continuously steps up efforts to promote the transformation and upgrading of energy production and consumption, and enhances its market competitiveness. In addition, Datang Power also vigorously develops clean energy, and makes constant breakthroughs in energy structure and optimized development.



Low-carbon Thermal Power

China has actively promoted green development and accelerated the establishment of a sound economic system featuring green, low-carbon and cyclic development. We have continuously optimized the structure of thermal power units, prioritized the development of eco-friendly units, and steadily improved the clean and efficient utilization of coal. In 2017, the Company's installed capacity of thermal power units reached 36.5148 GW.

The four units of Guangdong Chaozhou Power Generation Company adopt the direct seawater cooling method and achieve clean production through wet desulfurization, denitrification, electrostatic precipitation, low-nitrogen combustion and waste water treatment. As the backbone power plant in the power grid of Guangdong Province and an important power source for Chaoshan region, the company largely meets the power demands of the Pearl River Delta and Chaoshan region.



As the world's largest thermal power plant with a total installed capacity of 6,720 MW, Inner Mongolia Tuoketuo Power Generation Company insists on being synchronized with the power industry in innovation and upgrading, as well as high-efficient and clean development. It is committed to "bringing clean energy to Beijing and protecting the environment in Inner Mongolia". In 2017, the Phase V project of Tuoketuo Power Generation Company was recognized as the Elite Project of China Datang as the two units achieved ultra-low emissions soon as they went into operation with dust emission lower than national standards and reaching the leading level in China.



Beijing Gaojing Thermal Power Plant adheres to the development strategy of leveraging company strengths and building a base for green energy while focusing on energy conservation and emission reduction. It has completed the installation and acceptance check of low-nitrogen burners for start-up furnaces, after which the nitrogen oxide emission concentration was 22 mg/Standard m³, below the discharge standard of pollutants. The completion of the transformation project started a new chapter for a green Gaojing.

Clean Energy

Development of clean energy is an important step for improving energy structure, ensuring energy security and promoting construction of ecological civilization. We have continuously increased the proportion of power generation from non-hydro renewable resources, and vigorously developed renewable energy like wind power and solar power. In 2017, the installed capacity of clean energy and renewable energy accounted for 30% of the total installed capacity of the company.

Sichuan Ganzi Hydropower Company achieved the goal of "putting four units into operation in one year". With a total installed capacity of 3.45GW, Changheba Hydropower Station and Huangjinping Hydropower Station were put into full operation, maintaining the momentum of excess power generation throughout the year. The total generation was 9.878 TWh with a total profit of RMB 513 million. The full operation of the two power stations is of great significance to the development of green and clean energy, promotion of energy conservation and emission reduction, implementation of the Sichuan-to-East power transmission strategy, and promotion of Tibetan economic development.

In 2017, proportion of installed capacity of clean energy and renewable energy of the total installed capacity

30 %

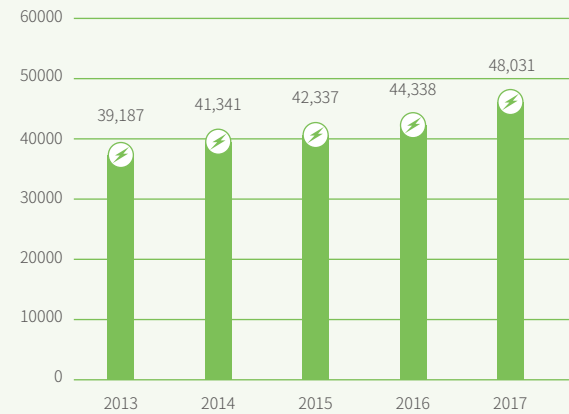


The wind power capacity in operation of Hebei New Energy Company reached 489 MWh, accounting for 0.63% of the total installed capacity of the Beijing-Tianjin-Tangshan power grid. The first wind power generation unit was connected to the grid in 2010, which optimized the power supply structure in the Beijing-Tianjin-Hebei region, and served as a corporate business card in the new energy industry in this region.

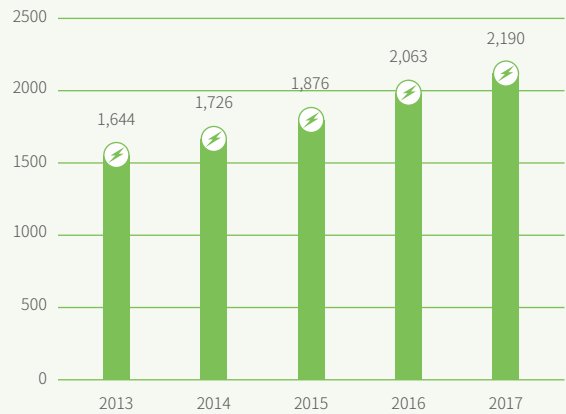


The Phase IV and Phase V Golmud 10-MW Photovoltaic Project of Qinghai Energy Company were successfully connected to the grid, and the existing installed capacity in operation exceeded 180 MW, securing the company's position as the largest PV power station in China Datang Corporation (CDT). The Phase V Golmud 10-MW Photovoltaic Project broke the record of CDT's PV project cost with RMB 6,373 per KW, maintaining its leading position in the industry.

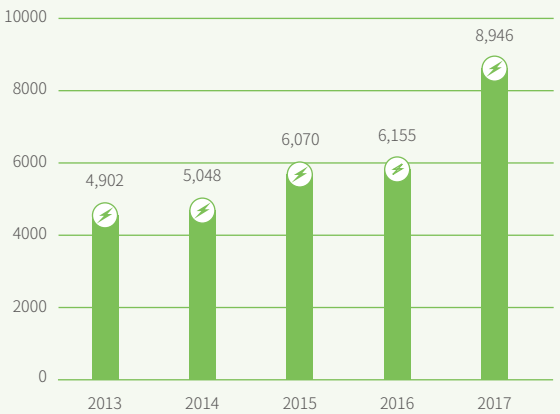
Total Installed Capacity (MW)



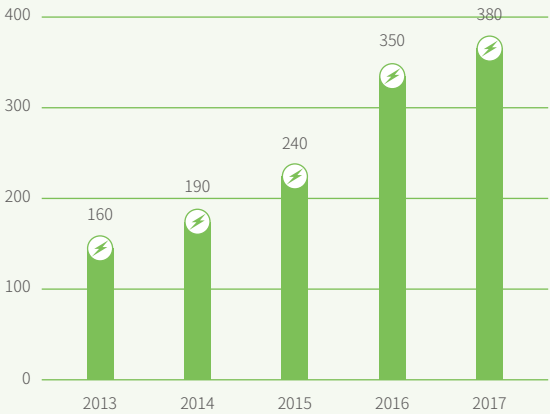
Installed Wind Power Capacity (MW)



Installed Hydropower Power Capacity (MW)



Installed PV Power Capacity (MW)



Power Supply

The total generation capacity of the Company in 2017

198.7 TWh

Year-on-year increase

15.20 %

The generation capacity of the stable generating units operated during the 19th CPC National Congress

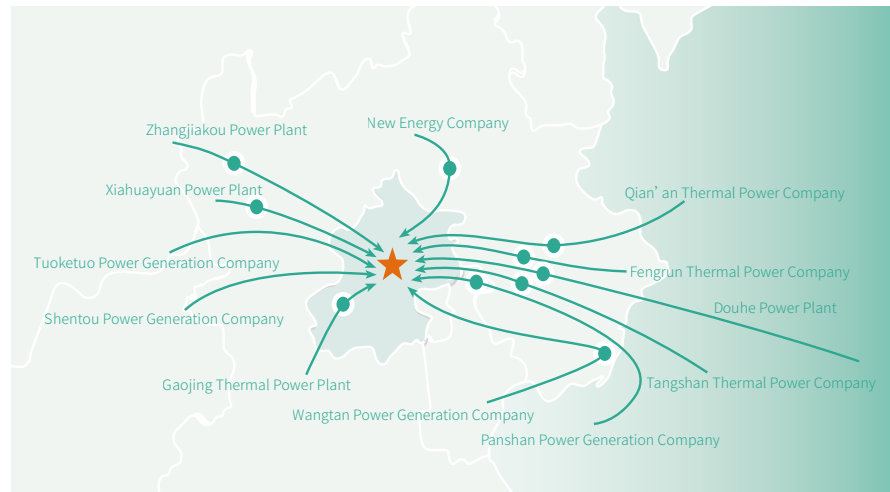
1.448 TWh

Year-on-year increase

27.01 %

The safe, stable and adequate supply of electricity is an important guarantee for the comprehensive, coordinated and sustainable development of the national economy. Datang Power has kept ensuring electricity supply and meeting customer power demands as the focus of all work, strictly abided by the *Electric Power Law of the People's Republic of China and the Work Safety Law of the People's Republic of China* in power generation and supply, and successfully maintained electricity supply in the important periods. In 2017, the Company generated a total of 198.7 TWh of electricity, representing a year-on-year increase of 15.20%. Several records of the Company were broken, including the highest single-day power generation, highest single-month power generation and highest cumulative power generation.

Supplying power for the 19th CPC National Congress: Datang Power kept the power supply for the 19th CPC National Congress as its primary political task of the year, and spared no effort to ensure power supply following the decisions and plans made by CDT. 33 units of 12 companies with a total installed capacity of 16,469 GW are included in the key power supply enterprise project. During the 19th CPC National Congress, the generating units maintained stable operation and generated a total of 1.448 TWh of electricity, a year-on-year increase of 27.01%. Safe and stable power supply was ensured with no incident and environmental accidents reported.



12 power generation companies supply power for the 19th CPC National Congress.

Supplying power for the 2017 BRICS Summit in Xiamen: In 2017, the 9th BRICS Summit was held in Xiamen, Fujian Province. The Fujian Ningde Power Generation Company, Fujian New Energy Company, Zhejiang Wushashan Power Generation Company, Zhejiang Shaoxing Jiangbin Thermal Power Company, and Fujian Branch and Zhejiang Branch of Datang Power ensured the safe and reliable power supply during the summit through careful planning, deployment, and coordination.

Supplying power for the National Games of China: The 13th National Games was held in Tianjin. As the only power generation company of Datang Power in Tianjin, Tianjin Panshan Power Generation Company conducted in-depth investigation of potential issues through benchmarking to ensure safe and stable power supply.

Demand-side Services

The government continues to promote the reform of the electricity power system, and works on establishing a complete set of market rules and a sound system. We have actively responded to the reform of the electricity power system, participated in the construction of the electricity market system, and promoted fair and orderly competition in the market. In 2017, the company's transaction volume of electricity was 60.532 TWh, accounting for 30.46% of its total power generation volume.

Actively participating in the construction of the electricity market. To facilitate the development of the electricity market, we have vigorously promoted the establishment and substantive operation of provincial marketing companies and electricity-selling companies. By the end of 2017, Datang Power had established four wholly-owned provincial energy marketing companies in the Beijing-Tianjin-Hebei region, Guangdong, Zhejiang and Fujian provinces, and plans to establish energy marketing companies in Liaoning and Jiangxi provinces, as well as establish as a controlling shareholder an electricity-selling company in Tongzhou, and establish five provincial energy marketing companies in Shanxi, Jiangsu, Yunnan, Sichuan provinces and Chongqing through equity participation. In 2017, energy marketing companies in Guangdong province and Beijing-Tianjin-Hebei region completed a transaction volume of 1.563 TWh.

Chongqing Wulong Hydropower Company was the first power generation company in Chongqing approved for electricity sales. Chongqing Wulong Hydropower Company has actively adapted itself to the new challenges in electricity sales brought by the reform of electricity market. To improve the quality of service, the company established market concepts, improved bidding schemes, set up a "market-oriented and customer-centric" marketing and coordination system featuring "regional integration", and optimized pre-control measures for market risks.



Chongqing Wulong Hydropower Company

Transaction volume of electricity in 2017

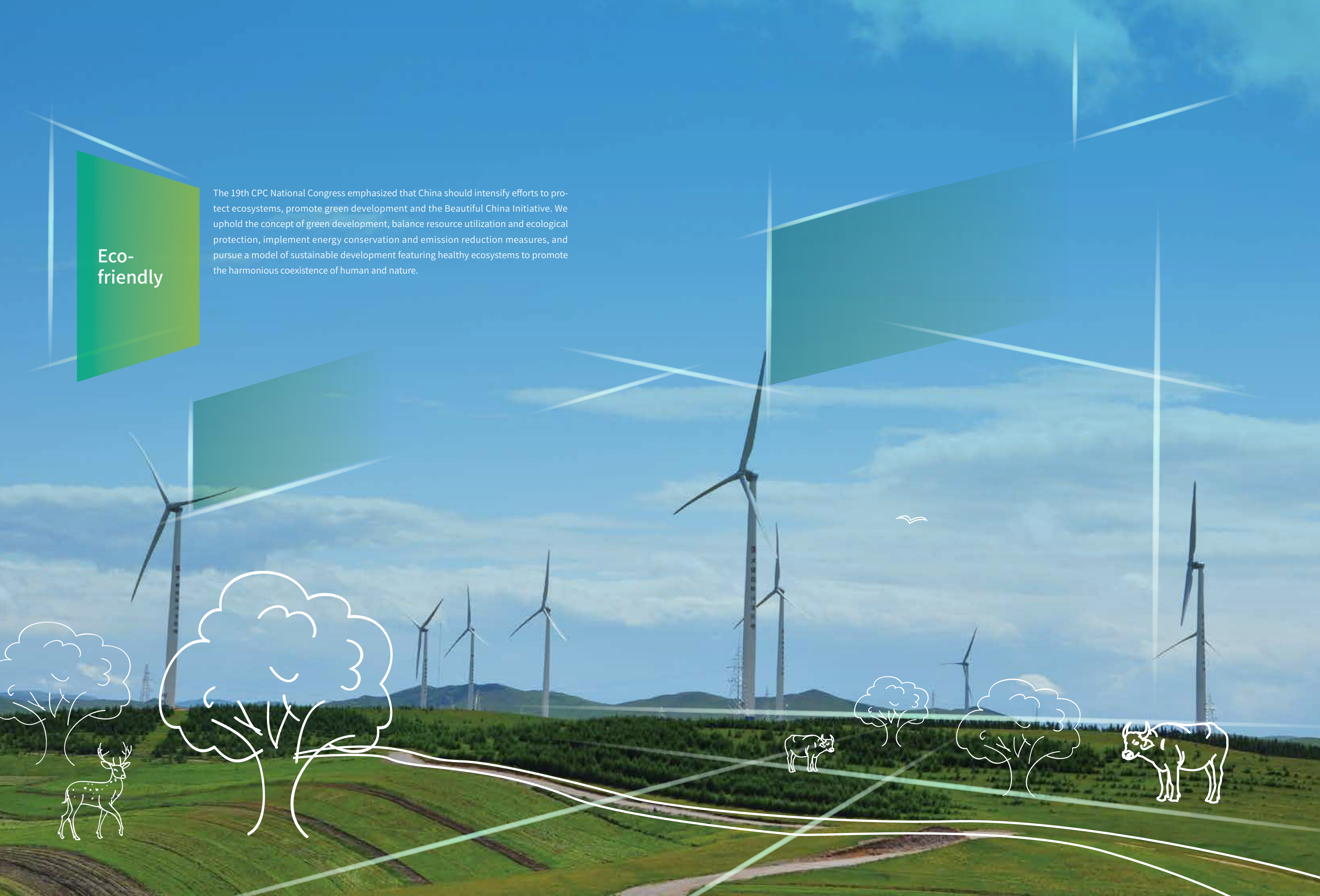
60.532 TWh

Proportion of transaction volume of the total generation capacity

30.46 %

Eco-friendly

The 19th CPC National Congress emphasized that China should intensify efforts to protect ecosystems, promote green development and the Beautiful China Initiative. We uphold the concept of green development, balance resource utilization and ecological protection, implement energy conservation and emission reduction measures, and pursue a model of sustainable development featuring healthy ecosystems to promote the harmonious coexistence of human and nature.



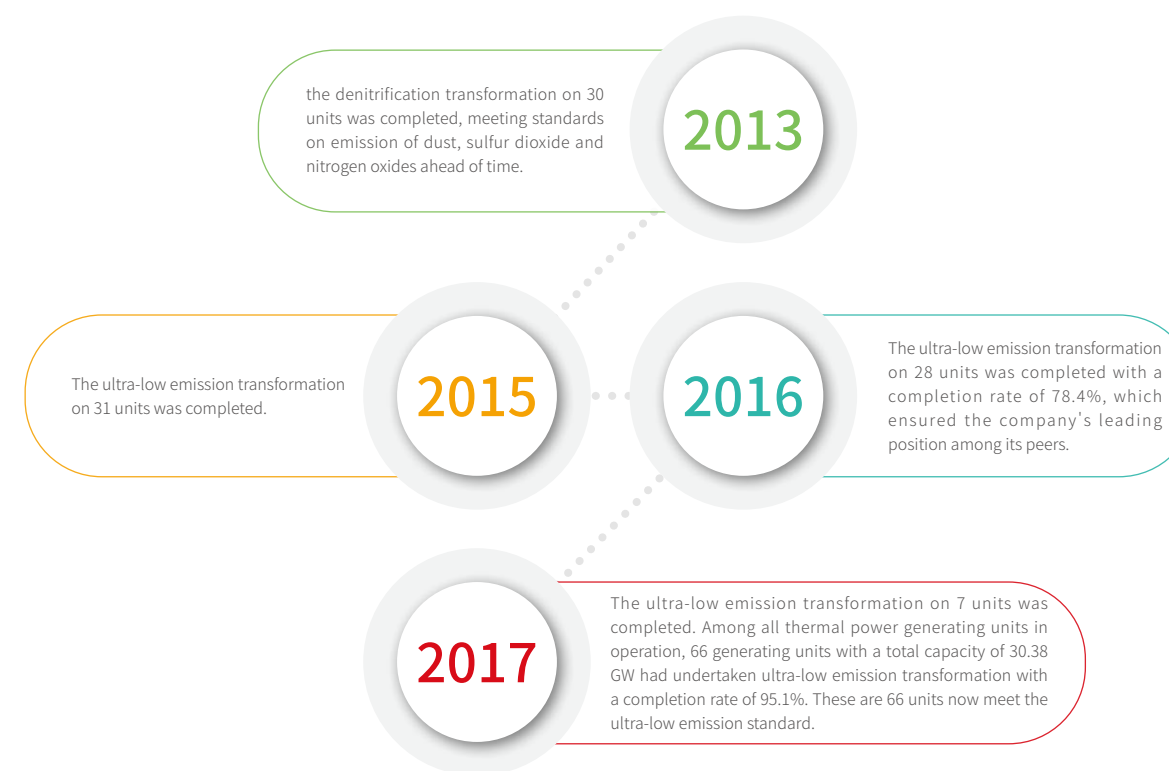
Ultra-low Emissions

In strict compliance with the *Environmental Protection Law of the People's Republic of China*, the *Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution*, *Measures for Environmental Protection of Datang Power*, and other laws and regulations, we continue to take action towards air pollution prevention and control, raise pollution emission standards, and expand emission information disclosure. Our goal is to reduce emissions of sulfur dioxide and other greenhouse gases, and the three waste, determined to make our skies blue again.

In 2017, CO₂ total emissions amounted to 115.92 million tons, among which 115.17 million tons were direct emissions and 750,000 tons were indirect emissions. CO₂ emission ratio reached 695g/KWh; the total SO₂ emission was 14,100 tons; the total NO₂ emission was 20,400 tons; the total soot emission reached 3,100 tons; and wastewater discharge volume was 4.0078 million tons.



The average emission concentration values of three pollutants from Hebei Fengrun Thermal Power Company are 15.81 mg/Standard m³ for sulfur dioxide, 14.84 mg/Standard m³ for nitrogen oxides, and 1.72 mg/Standard m³ for dust, far below the national or provincial ultra-low emission standards.



Zhejiang Wushashan Power Generation Company has completed the ultra-low emission transformation on its four generating units, and the current emission concentration of major pollutants falls below the standards for combustion engines of the same type and leading among same-type generating units in China. This company also maintains a leading position within Datang Power in four energy consumption indicators: coal consumption for power supply, comprehensive power consumption rate, oil consumption per unit of power generation, and water consumption in power generation.



Resource Conservation

Adhering to the policy of resource conservation, we effectively promoted resource conservation and recycling, and formed a green development pattern for company-wide application. In compliance with regulations such as the *Regulations on Energy Conservation of Datang Power* and the *Management Practices for Energy Conservation and Emission Reduction of Datang Power*, we actively promoted the reform of energy conservation technologies and conducted water-saving actions, steadily lowering our energy consumption and resource consumption. In 2017, the Company consumed 141.68 million tons of water, 47.98 million tons of standard coal, 3,984 tons of oil and 10.418 TWh of electricity. In the 2017 National Thermal Power Unit Benchmarking Competition, Datang Power had 17 generating units recognized for their outstanding efficiency.

Reduction in Fuel Consumption

Hebei Wangtan Power Generation Company strengthened coal blending management and plasma system maintenance, and formulated a complete set of measures to guarantee zero oil consumption through single-layer plasma ignition. The company achieved "zero oil consumption" for 91 consecutive months, outpacing domestic industry peers.

Reduction in Power Consumption

Through technological upgrading projects including equipping chemical water pump motors with frequency converters and applying frequency control to the condensate pump of generating unit 4, Beijing Gaojing Thermal Power Plant reduced the power consumption rate by 18.86% in four years since the combustion engines were put into operation.

Reduction in Steam and Water Loss Rate

Hebei Tangshan Thermal Power Company promoted the use of advanced water-saving appliances and valves to reduce steam and water loss.

Water Conservation

Hebei Tangshan Thermal Power Company saved more than 1 million tons of water every year by separating slag and water through the drainage bin and recycling water used for flashing ash. It also cooperated with the drainage company to use the recycled water produced by its sewage treatment plant for circulating water cooling system in the power generation process. This move could save more than 2 million tons of river water annually.

Efficient Use of Fly Ash

Datang Power High-Aluminum Coal R&D Center carried out a research project on "key technologies and demonstration of high value utilization of fly ash" and independently developed the "second generation technology of extraction of alumina from coal fly ash through wholly hydrometallurgical process" to reduce energy consumption, costs, and emissions.

Award-winning units on energy efficiency
in 2017 National Large Thermal Power
Unit Benchmarking Competition

17

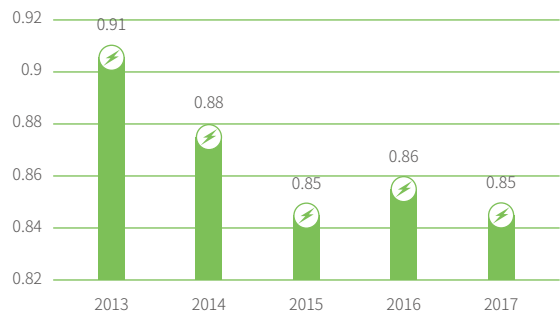


Hebei Tangshan Thermal Power Company

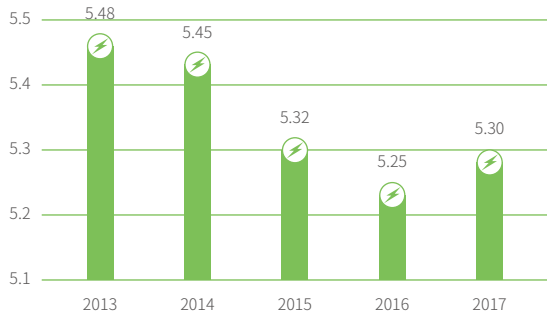
Award-Winning Units in 2017 National Thermal Power Generating Unit Benchmarking Competition

Category	Winning Generating Units	Award
600 MW ultra-supercritical	Generating Unit 3, Zhejiang Wushashan Power Generation Company	Second Prize
	Generating Unit 4, Zhejiang Wushashan Power Generation Company	Third Prize
	Generating Unit 1, Fujian Ningde Power Generation Company	
	Generating Unit 2, Jiangsu Lvsigang Power Generation Company	
600 MW subcritical	Generating Unit 2, Inner Mongolia Tuoketuo Power Generation Company	Third Prize
	Generating Unit 3, Inner Mongolia Tuoketuo Power Generation Company	
	Generating Unit 4, Inner Mongolia Tuoketuo Power Generation Company	
	Unit 3, Tianjin Panshan Power Generation Company	Second Prize
300 MW water cooled condenser	Generating Unit 3, Hebei Zhangjiakou Power Plant	
	Generating Unit 8, Hebei Zhangjiakou Power Plant	
	Generating Unit 1, Liaoning Jinzhou Thermal Power Company	
	Generating Unit 1, Hebei Fengrun Thermal Power Company	
	Generating Unit 1, Hebei Tangshan Thermal Power Company	
	Generating Unit 5, Hebei Zhangjiakou Power Plant	
	Generating Unit 6, Hebei Zhangjiakou Power Plant	
	Generating Unit 7, Hebei Zhangjiakou Power Plant	
300 MW heating and air cooled	Generating Unit 3, Shanxi Yungang Thermal Power Company	Second Prize

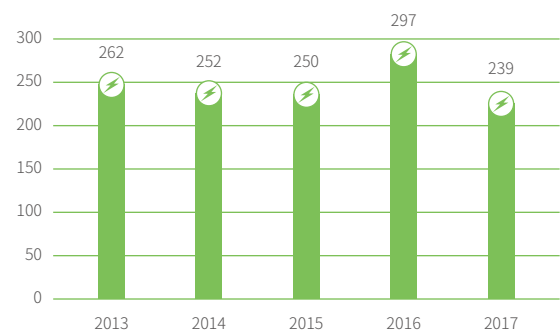
Water Consumption for Power Generation (kg/KWh)



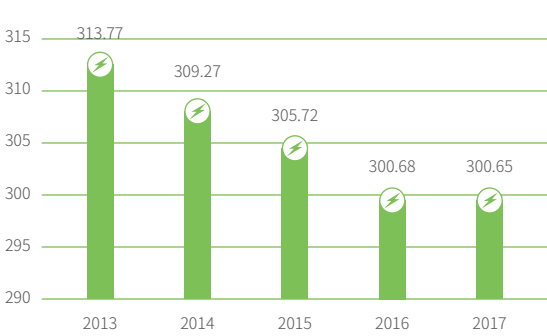
Comprehensive Power Consumption Rate (%)



Oil Consumption for Power Generation (ton/million KWh)



Coal Consumption for Power Generation (g of standard coal/KWh)



Ecological Protection

Practicing the concept of "lucid waters and lush mountains are invaluable assets", we are committed to building a healthy ecological environment by strengthening ecological governance, conducting biodiversity protection, and reducing the environmental impact from energy production. We strictly control waste discharge. In the disposal of hazardous and non-hazardous wastes, all subsidiaries sign agreements with qualified companies and dispose wastes according to environmental protection requirements of local governments.

Forestation through Dust Control

Hebei Zhangjiakou Power Generation Plant has strengthened ecological management of the ash yard and continued tree reproduction and cultivation within the yard. Besides the original 100 mu of vegetable cultivation land, the company planted over 6,200 trees including abele, Chinese elm, and flowering plum in a new forest area covering 20 mu, which effectively improved the environment of the ash yard.



Protecting Biodiversity through Scientific Releasing

Sichuan Ganzi Hydropower Company organizes the yearly breeding and releasing of rare fish in reservoir areas of Changheba Hydropower Station and Huangjinping Hydropower Station, and has released over 300,000 rare native fish from Dadu River. Specifically, 140,000 *Schizothorax prenanti* and 60,000 *Schizothorax davidi* were released in the reservoir area of Changheba Hydropower Station, and 70,000 *Schizothorax prenanti* and 30,000 *Schizothorax davidi* were released in the reservoir area of Huangjinping Hydropower Station. Among them, 10,000 were tagged with words "Changheba & Huangjinping 2017" for future recapture and research. The project aims to protect the aquatic biodiversity of Dadu River and promote ecological protection in reservoir areas.

Chongqing Pengshui Hydropower Company has released 60,000 *Myxocyprinus asiaticus*, 60,000 *Procypris rabaudis* and 60,000 *Sinilabeo rendahli*, and 150,000 *Spinibarbus sinensis* and 150,000 *Onychostoma simum* into Yanhe reservoir areas of Guizhou province and the upstream and downstream reservoir areas of Pengshui Hydropower Station. The company is working on increasing populations of rare or significant fish by artificial fertilization, breeding, cultivation and releasing. It has been releasing fry cultivated in fish breeding and releasing stations for eight consecutive years since 2010 and released a total of 3.68 million fish in Wujiang River Basin, effectively protecting the diversity of fish species.



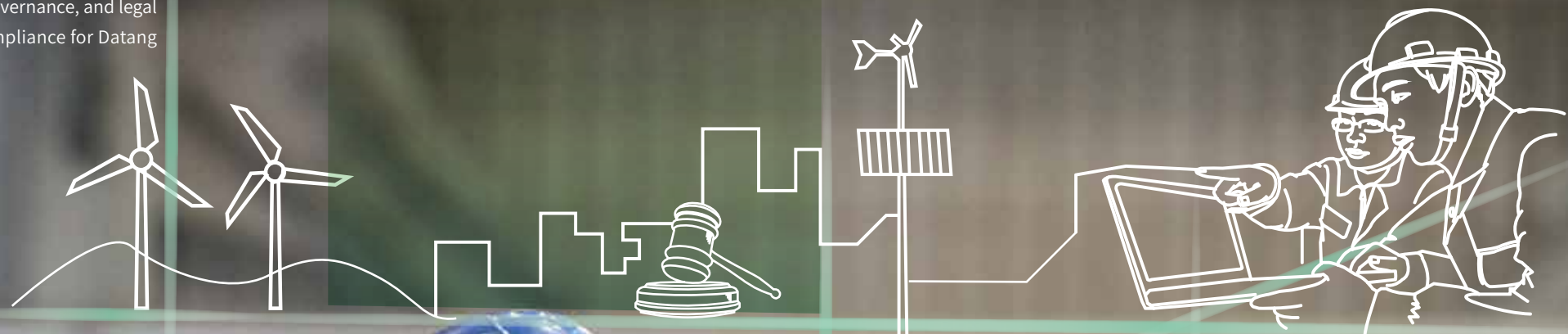
Taking Action for Environment Protection

Chongqing Shizhu Power Generation Company organized a volunteer public welfare campaign titled "Protecting Mother River - We Are in Action" to test the water quality in Xituo Wharf and carry out environmental protection propaganda to raise public awareness of environmental protection.

Monitoring the soil and water situation at Wujiang Yinpan Hydropower Station, Chongqing Wulong Hydropower Company formulated rules and regulations such as *Design Management Measures*, *Administrative Measures for Environmental Protection and Soil and Water Conservation*, *Administrative Measures for On-Site Inspection of Environmental Protection and Soil and Water Conservation* in compliance with relevant laws and regulations. Wulong Hydropower Company strengthened management and control of the construction process to control soil erosion. In 2017, Wujiang Yinpan Hydropower Station was awarded the *Ecological Civilization Project of Soil and Water Conservation in Production and Construction* by the Chongqing government.

Legal Compliant

"Comprehensively implement the rule of law" is the essential requirement and important guarantee for the socialism with Chinese characteristics. Adhering to law-based corporate governance and "strengthen Party discipline", Datang Power endeavors to enhance legal operation and management, law-based corporate governance, and legal culture construction to accelerate the development of a legal compliance for Datang Power.



Work Safety

Work safety is critical to the property safety of the country and people's vital interests, it is the essential requirement for enterprises. We firmly establish the concept of safety throughout our company, both for employees and equipment. We insist that "both violations and hidden hazards are accidents", and ensure stable situation for work safety according to the work safety management idea of "macro-safety, full coverage, strong foundation, zero tolerance, rigid assessment, and strict accountability".

Safety Management System

We continuously make revisions and improvements to our *Work Safety Regulations, Measures for Work Safety Responsibility Management, Work Safety Supervision Regulations, Regulations for Rewards and Punishments of Work Safety*, and *Safety Management Guidelines*, and establish a "4+1" Safety Management Institutional System. In 2017, we compiled *Measures for Work Safety Responsibility at Datang Power, General Responding Plan for Work Safety Emergency* and five other specific plans, and *Guidelines on Anti-violation Management and Appraisal Standard for Safety Management System Implementation* to eliminate safety blind spots and standardize operations.

We constantly improve our work safety emergency management system, conduct comprehensive emergency drills to enhance emergency response, and complete internal assessments of emergency capability for all subsidiaries under Datang Power. Among them, 20 enterprises complete assessments by external experts. All enterprises with over 600 MW installed capacity are reviewed.

Improving Safety Awareness

We held discussions on the benefits of safety, held the first competition of work safety skills, and innovate in safety education to gradually improve employees' safety awareness and guide employees to fully understand "strictness in work safety to benefit everyone" and "work safety is our top priority at Datang Power". With such effort, we enable our employees to have a full understanding of the benefits of work safety, create a favorable atmosphere where everyone not only wants safety, but also works to make the workplace safe for everyone.

We create a working standardization management plan, organize a symposium for the standardization of work teams, and comprehensively enhance safety awareness and concept of work teams. We conduct work team appraisals and identify management blind spots. In 2017, 46 team leaders from 34 grassroots enterprises participated in discussions of work team standardization. The standardization construction work of 97 work teams from 17 grassroots enterprises was reviewed and evaluated.



Beijing Gaojing Thermal Power Plant's emergency drills at the pressure regulating station of combustion engine

Work Safety Inspection

We improve the macro-safety management and control model, comprehensively conduct work safety inspection, and enhance the efficiency of safety management and control, and comprehensive guarantee capability. Moreover, we successfully completed the security and stability maintenance work during the 19th CPC National Congress to contribute to stable work safety.

We implement the all-dimensional, multi-angle safety check. During the safe production inspection, we conduct comprehensive inspections in different areas and professions and between subsidiaries to promote exchanges and inspect hidden safety hazards. According to the progress of key projects, seasonal changes and high risk factors in different periods, coal field closures, ultra-low emission renovation, infrastructure, flood prevention and existing problems in outsourcing projects, we compile nine issues of *Work Safety Risks* to make early warnings for work safety risks and propose effective control measures to prevent production accidents. In 2017, 76 *Notification of Work Safety Supervision* were issued.

Equipment Repair and Maintenance

We explore our internal repair and maintenance capacity, promote capacity building for repair and maintenance companies, and complete the repair and maintenance of 12 generating units within the Company based on the principle of "double rewards, double punishments" for repair and maintenance quality. 6 generating units are awarded Class A generating units in terms of reliability, doubled from previous years.

Class A Reliable Generating Units of China in 2017	
Inner Mongolia Tuoketuo Power Generation Company	11 generating units
	12 generating units
Tianjin Panshan Power Generation Company	3 generating units
Hebei Zhangjiakou Power Plant	7 generating units
Zhejiang Wushashan Power Generation Company	3 generating units
Jiangsu Lvsigang Power Generation Company	2 generating units



Hebei Zhangjiakou Power Plant conducts equipment repair and maintenance

Notification of Work Safety Supervision issued in 2017

76

Awarded Class A generating units in terms of reliability

6

Increase year on year

3

Law-based Corporate Governance

Lawful and compliant corporate governance is the policy and foundation for corporate governance and development; it is the impetus and the basis of corporate sustainability. We persist in law-based corporate governance, and manage and operate according to national laws and regulations and the rules for Hong Kong-listed enterprises. Based on the *Construction and Implementation Plan for "Legal Compliant Datang Power"* of Datang International Power Generation Co., Ltd., we make decisions and operate businesses according to applicable laws.

We organize activities of promoting lawful and compliant corporate governance, enhance employees' legal awareness, and improve the legal decision-making and legal administration capabilities of cadres of all levels to promote the standardization of management work. On the National Legal Awareness Day, Datang Power held legal seminars, organized employees to study relevant laws and regulations such as *Environmental Protection Law*, *Contract Law* and *Work Safety Law*, and enhanced their professional competence and legal fulfillment capabilities.

We implement responsible supplier management, strictly select suppliers, and improve suppliers' quality. We enhance procurement planning management and control, and realize the unified planning and organization of all procurement activities and their unified implementation on an e-commerce platform. In addition, we formulate procurement plans to ensure procurement regulation, quality, efficiency and profits.



Strengthening Party Discipline

We study and publicize the spirit of the 19th CPC National Congress, regularize and institutionalize the requirement for all Party members to have a solid understanding of "Two Studies One Action" campaign (i.e. to study the Party Constitution, Party regulations, and related major policy addresses and to meet Party standards). We hold regular meetings on the Party conduct and a clean governance and anti-corruption work. We comprehensively implement the leading and political core roles of the Party organization, tighten up on accountability for supervision and discipline in accordance with the Communist Party of China Standards for Honesty and Self-discipline, and coordinate with the Party organization of China Datang on discipline inspection to purify the political ecology of enterprises and propel the work on strengthening Party discipline. In 2017, 1,812 liability statements for the Party conduct and clean governance were signed.

Carrying out intraparty political activities in strictness. We establish clean governance archives for 427 Party cadres of deputy-director or higher level; we send reminders of clean governance to 68 newly elected cadres and help them set up the value concept of handling affairs justly and exercising clean governance. We strictly organize life system, and the leadership of all units of the system hold special democratic life meeting and annual democratic life meeting, such as the "Enhancing 'Four Consciousnesses', 'Strictly abiding by political discipline and political rules'"; we carry out in-depth series theme activities like "To welcome the 19th CPC National Congress, and to be qualified Party members", etc. to consolidate the foundation of the Party.

Implementing Central Committee of the CPC's eight-point decision on improving Party and government conduct. We create a clean and righteous atmosphere, strengthen publicity activities of the Party conduct and a clean governance, and carry out a series of activities such as clean governance works collection and traditional culture salons. In 2017, we organized over 500 educational activities about political action and governing with over 52,000 participants accumulatively.

Conducting the standardization construction of grassroots Party organizations. We establish the "Party Activity Day" system to spare time for Party members to participate in the Party activities, further strengthening the standardization of Party branches. The Party branch of the automobile repair team from the overhaul and maintenance department of Beijing Gaojing Cogeneration Power Plant promotes the standardization construction of Party branches through the following three programs, i.e. one standardization display board in every Party branch, one learning pocket book for every Party member, and one seasonal assessment for every Party branch. In 2017, the Party branch was recognized as the advanced grassroots Party organization by China Datang and recommended as the exemplary grassroots Party branch among central SOEs.



Liability statements for the Party conduct and clean governance signed in 2017

1,812

Educational activities organized in 2017

over 500

Accumulative participants

over 52,000



Innovation-driven

Innovation is the primary driving force behind development, it is the strategic underpinning for building a modernized economy. Datang Power chooses to pursue scientific and technology innovation, improve the innovation mechanism, enlarge the S&T talent team, enhance transformation through innovative achievements, and make new breakthroughs in S&T innovation.



Innovative Enterprises

Company's investment in research and development in 2017

over RMB **75.73** million

Project of National High Technology Research and Development Program ("863 Program")

1

Projects of National and Provincial Key Technology R&D Program

2

Industrial and higher level standards compiled

5

With the goal of building innovative enterprises, we constantly improve the three-tiered (headquarters - regional companies - frontline companies) technology management system, draw on innovation to make breakthroughs in key technologies to enhance enterprises' profitability and sustainability, and cultivate a batch of core technology enterprises with proprietary intellectual property rights, giving full play to the Company's role as an industry leader. We set up medium-term and long-term goals for scientific and technological innovation, implement technological innovation requirements, build a first-class S&T research and development platform, and deepen the cooperation model to introduce the latest technologies in the industry and enhance S&T innovation. In 2017, the Company invested over RMB 75.73 million in research and development, undertook 1 project of National High Technology Research and Development Program ("863 Program") and 2 projects of National and Provincial Key Technology R&D Program, organized or participated in the compilation of 5 industrial and higher level standards.

Pilot Innovative Enterprises

The first batch of pilot innovative enterprises in 2016	The second batch of pilot innovative enterprises in 2017
Headquarters	Guangdong Chaozhou Power Generation Company
Inner Mongolia Tuoketuo Power Generation Company	Beijing Gaojing Thermal Power Plant
Hebei Zhangjiakou Power Plant	Jiangsu Lvsigang Power Generation Company
Tianjin Panshan Power Generation Company	Chongqing Wulong Hydropower Company
Chongqing Pengshui Hydropower Company	Liaoning New Energy Company
	Fujian New Energy Company



The electrolytic liquid aluminium production plant

Innovative Teams

We inspire innovative teams to work for our enterprise. By focusing on innovation in the employee management mechanism, we formulate the strategy and development plan of developing skilled employees, and implement the employee development program and cultivation plan to optimize staff structure and improve worker efficiency. Science associations, innovation labs and quality control circles (QCCs) are just a few of the diverse innovation platforms that we use to stimulate employees' potential and cultivate innovative teams. By the end of 2017, 28 China Datang innovation labs had been named after employees.

Hebei Douhe Power Plant establishes youth innovation labs. In 2017, in order to tap the potential of youth in innovation, Hebei Douhe Power Plant enhanced efforts in promotion and application of scientific and technological results and established the youth innovation lab in Douhe Power Plant. The head of the innovation lab is Gao Jianhui. As the only senior engineer under the age of 35, he has obtained five national patents. The establishment of the innovation lab has inspired employees' enthusiasm in innovation and cultivated innovative leaders, serving as the propeller of employees' self-innovation capability enhancement.

China Datang innovation labs named after employees by the end of 2017

28



The establishment of the youth innovation lab in Douhe Power Plant



Innovative Achievements

We persist in promoting scientific and technological results and apply them into practical production, solving on-site problems, and further accelerating innovation.

The comprehensive utilization project of fly ash wins National Science and Technology Progress Award. Producing alumina with calcium silicate as developed by the Datang Power High-aluminum Flyash R&D Center, is a breakthrough technology for fly ash within the building materials industry. As a mineral resource, high-aluminum fly ash can be utilized by synergistic extraction of valuable resources of different components, phases and structures. Technical achievements play a significant role in improving the scientific and technological level in comprehensive resource utilization and circular economy. The project was awarded second prize for National Science and Technology Progress Award.

Using the Internet technology to solve problems. Hebei Fengrun Thermal Power Company realizes uses mobile applications to remotely monitor of on-site equipment. The operators remotely monitor problems caused by high temperature of bearings in air compressors. The internet makes for more reliable air compression systems and safer environmental equipment.

Patents Granted

Index	2013	2014	2015	2016	2017
Number of Patents Granted	163	144	272	215	186

Awarded projects led by or participated by Datang Power in 2017

Award	Project Name
National Science and Technology Progress Award	The comprehensive utilization project of fly ash
Second prize of China Electric Power Science and Technology Award	The research and application of key technologies of static frequency starting equipment of the first national large combustion engine
	Technical innovation and application in 1000MW thermal power unit construction
Second prize of Energy Innovation Award	The research and application of phased array diagnosis and safety assessment technology of (ultra) super critical steam turbine units
First prize of China Electric Power Innovation Award	Key technology and application of diagnosis of early insulation defects in large generators
	First class projects construction management innovation and the practice of Jiangxi Fuzhou Power Plant of China Datang
Second prize of China Electric Power Innovation Award	The research and application of key technologies of array diagnosis and assessment technology of (ultra) super critical steam turbine units
	Innovation in culture construction promotes the overall improvement of Wulong Hydropower Company



Graphite roasting workshop

Major science and technology projects undertaken by Datang Power in 2017

Project Level	Project Name
Sub-project of national projects	Development of new thermal materials for ultra-supercritical generating units of thermal power plants
	Research on usability and energy-saving effect of thermal insulation materials for thermal power plants
Group company	Key technology and optimization of load regulation of coal-fired generating units
	Research on key technology of multi-coal boiler combustion optimization
	Development and application of online thermometry of coal-fired generating units
	Research on ultra-supercritical generating units operation optimization and control
	"Internet Plus" data monitor and diagnosis technology of combustion units
	Research on the application of auxiliary solar parabolic technology of coal-fired power plants
	Research on key technology of secondary reheat
Datang Power	Research on flood discharge vibration of Huangjinping Hydropower Station
	Research on key technology of producing low density fracturing fluids with fly ash
	Research on technologies of testing, evaluating and restoring high-temperature components of combustion units

CSR-minded

The 19th CPC National Congress points out that the wellbeing of the people is the fundamental goal of development, we must do more to improve the lives and address the concerns of the people. We will intensify poverty alleviation, see that all our people have a greater sense of fulfillment as they contribute to and gain from development, and continue to promote well-rounded human development and common prosperity for everyone. We implement the concept of shared development, ensure and improve living standards through development, and actively fulfill its corporate social responsibilities. We value the understanding and support of stakeholders, care for employees' growth and development, and contribute to the development of communities and the harmonious society.



Staff Development

Number of on-the-job employees by the end of 2017

20,242

Female employees

4,081

Ethnic minority employees

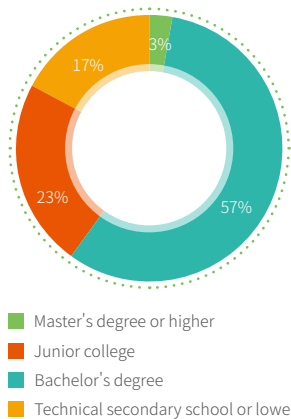
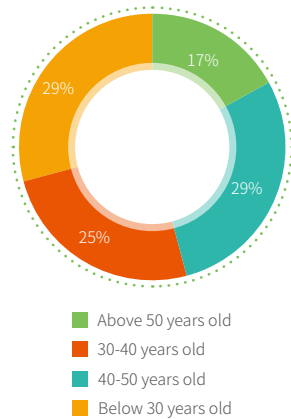
1,076

We promote the Datang spirit "to be pragmatic, dedicated, innovative, and progressive", maintain our values and the benefit-oriented principle, and build our employees' team with a strong belief, strict discipline, tenacious attitude, and competitiveness by following "120-point work standards". We value employees' rights, interests and development, and create a just, transparent, and mutually beneficial working environment.

Employee Rights

In strict compliance with the *Labor Law of the People's Republic of China*, the *Labor Contract Law of the People's Republic of China* and *Regulations on Standardized Employment of Datang Power*, the Company recruits employees in an open manner on the principle of equality. We oppose all forms of discrimination in the workplace or employing child labor, and ensure 100 % coverage of labor contracts in accordance with the law. We continue to improve the compensation and benefit system, insist on "equal pay for equal work", pay premiums from housing funds and social insurance on time and abide by national regulations on working hours and the vacation policy to guarantee employees' rights to rest and take vacation. The Company established and improved the mechanism of promotion based on evaluation, which promotes employees according to evaluation results. By the end of 2017, we had 20,242 on-the-job employees, with 4,081 female employees and 1,076 ethnic minority employees.

We have taken steps to improve the democratic management system and have improved our workers' congress system and trade union system, raising the union membership rate to 100 %. We build staff communication platforms and take steps to ensure their right to participation and supervision.



Datang Power held the 5th Employees' Congress and 2017 Working Conference

Health of Staff

Following the *Labor Law of the People's Republic of China*, the *Work Safety Law of the People's Republic of China* and other laws and regulations, we continue to improve employees' health management system, regularly organize physical examination for employees, and establish health records. Physical examination has been conducted on all staff and employees. We pay attention to employees' mental health and hire experts to provide mental counseling. Moreover, we regularly inspect occupational hazards and provide labor protection equipment to create a healthy working environment for employees.

Staff Development

We improve the talent training system and conduct professional trainings of skills and enterprise management, etc. to comprehensively improve employees' quality, providing a talent foundation for the Company's sustainable and healthy development. In 2017, we organized trainings for 377,668 employees, among which 108,474 are trained in enterprise management and professional skills, 257,959 trained in production technologies and 11,235 trained in other fields.

Training provided in 2017

377,668 person times



New Employee orientation training



Training for new employees



Professional skill training: spare part geomatics engineering and CAD drawing

We regularly hold professional skill competitions to provide employees with a platform for exchange and self expression. In 2017, 1,387 employees passed professional skills qualification assessments, with 6 certified as senior technicians and 99 certified as technicians.



Talent cultivation results of Datang Power

Well-being of Employees

We organize various cultural activities and sports competitions such as Ping-Pong games and basketball games to enrich employees' lives. We pay attention to the concerns and the immediate and practical interests of employees, solve employees' most concerned problems, and help them improve working and living conditions, elevating employees' overall well-being.



Visiting on-duty employees for unstoppable power supply during the 19th CPC National Congress



Employee basketball game



Employee talent show



The Spring Festival gala of Hebei Tangshan Thermal Power Company



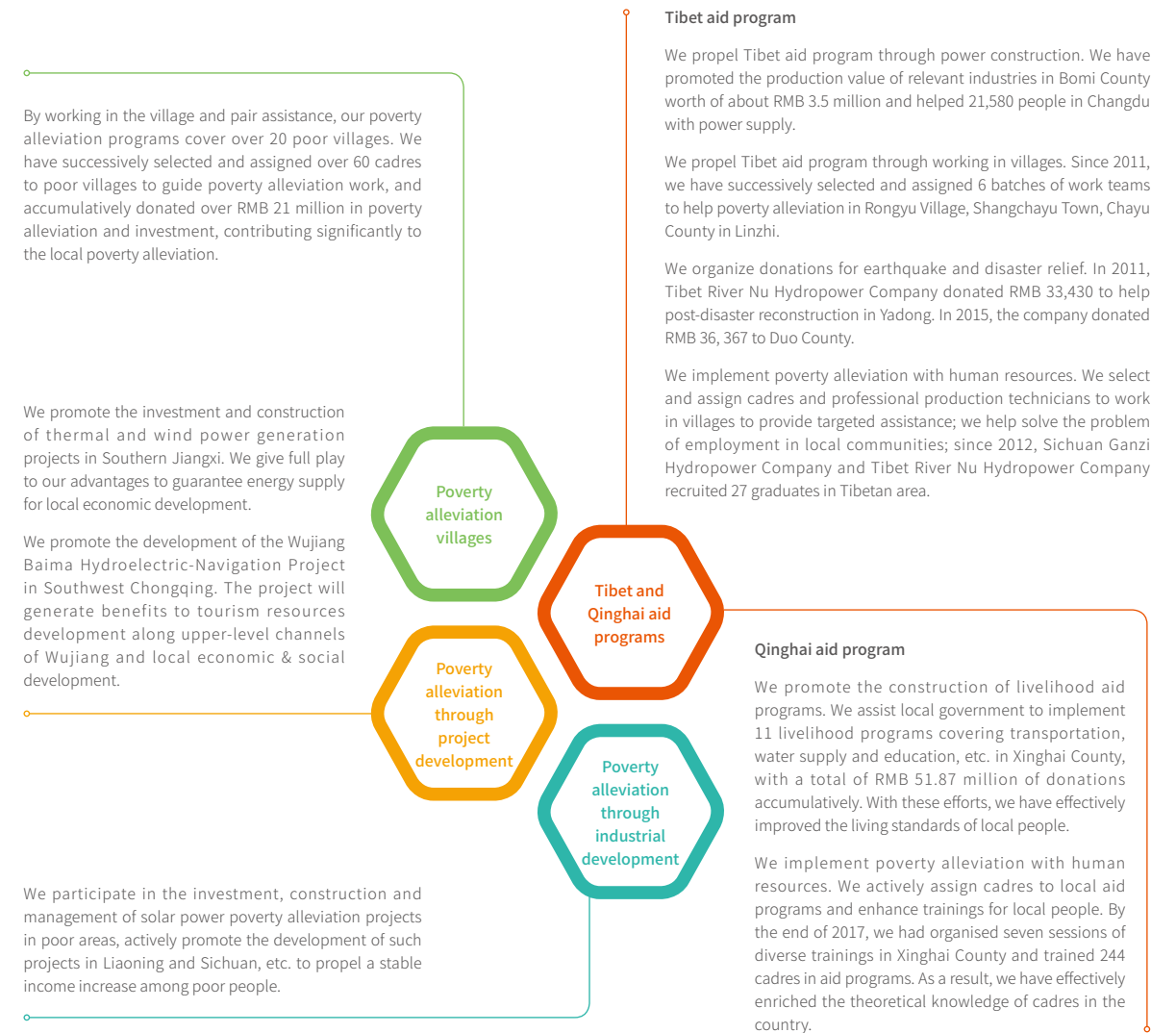
Employee cooking competition

Mutually beneficial Cooperation

Taking the local situation into account, we draw on our advantages and seek better ways to repay society. We promote targeted poverty alleviation, enhance communication and cooperation with stakeholders, support cultural education, help disadvantaged groups and support community building, striving to realize common prosperity.

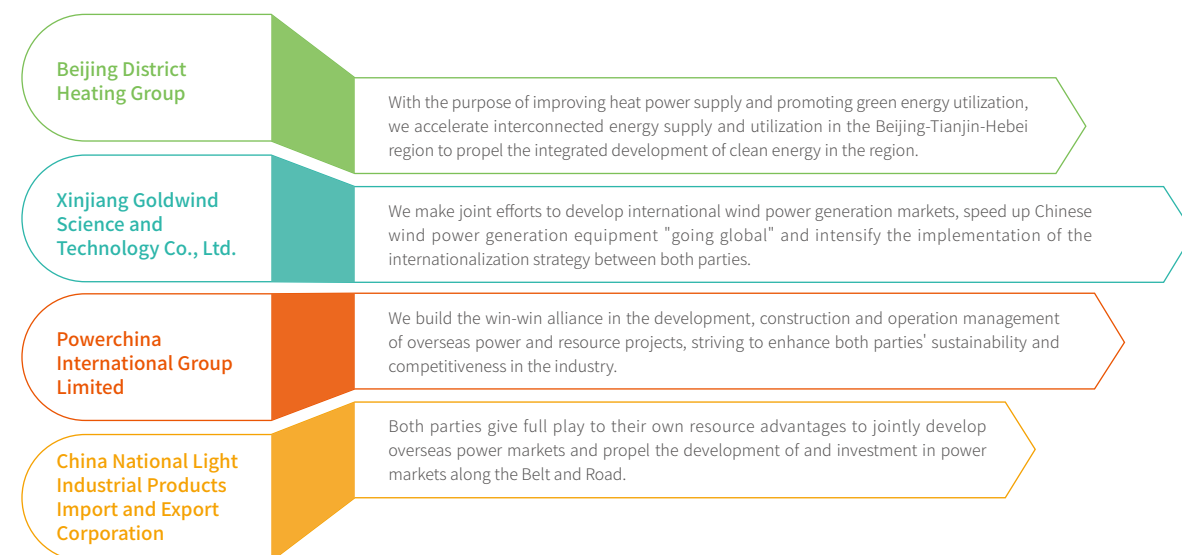
Targeted Poverty Alleviation

We comprehensively implement poverty alleviation work for the Central Committee and the State Council, and actively practice specific requirements of China Datang concerning Tibet and Qinghai aid program, poverty alleviation through industrial development and project development, as well as working in villages. We support the development of veterans and remote areas and promote poverty alleviation through various ways to boost local economy.



Communication and Cooperation

We enhance communication and cooperation with the government, suppliers and partners, etc. With the advantages in resources, technology and management, we help suppliers diminish environmental impacts exerted by production and operation, raise the level of development, construction and operation management in cooperation projects, and drive common development for all parties.



Signing the strategic cooperation framework agreement with Beijing District Heating Group

Chongqing Pengshui Hydropower Company coordinates with local government to conduct disaster treatment in reservoirs. Pengshui Hydropower Company made a detailed analysis of monitoring data of disaster-stricken areas and timely reported the results to related local government departments. The company participated in the on-site investigation and coordinated with local government in promoting reservoir fund application. As for landslide treatment, the company communicated with the government of Yanhe County, signed a treatment agreement, and helped with the act of rescue and relocation of those affected by landslides in Youyang County.

Supporting Education

We take the initiative to participate in public welfare, care for disadvantaged group, carry out normalized public welfare activities, and help improve local quality of life. We actively organize voluntary activities such as donation drives, caring for children whose parents work away from home. We draw on our advantages in profession, skills, and capital, making contributions to the development of local communities.



The volunteer activity of "Hand-in-Hand with Datang Youth"

Raise scholarships. Liaoning Jinzhou Thermal Power Company held a charity activity named "Golden Autumn School Aid Project", raising over RMB 11,000 to assist students for college.

Visiting orphans and children with disabilities. Hebei Zhangjiakou Thermal Power Company conducts the volunteer activity of "Hand-in-Hand with Datang Youth" to visit disabled orphans and foster children. A long-term relationship has been established between Hebei Zhangjiakou Thermal Power Company and the foster house.



Jiangsu Datang Lvsigang Power Generation Company held "Datang Morning Star Class" in the experimental school in Qidong City, Jiangsu province

Care for left-behind children. Chongqing Pengshui Hydropower Company held theme activities such as "learning from Lei Feng", "sunshine in winter warms you and me", and "home visits", to encourage volunteers to visit schools and help left-behind children with their study and life. By the end of 2017, employees of Chongqing Pengshui Hydropower Company had donated over 80 sets of bedding to disadvantaged children in reservoir areas of the power station for six consecutive years, which are worth over RMB 40,000. They also donated scholarships of fund over RMB 130,000.



Hebei Douhe Power Plant organized on-site donations to Guma Town, Luan County

Our 2018

In 2018, we will uphold our values and the benefit-oriented principle, with the focus on quality and efficiency improvement. Taking overall benchmarking enhancement as the mainline, we accelerate our implementation of the 13th Five-Year Plan. We will also bolster the development of reforms in quality, efficiency and power, enhance our safety controls, competitive advantages, asset quality, governance capacity and staff quality, and guarantee a solid foundation as we accelerate our growth. We will take necessary steps to transform Datang Power into an industry-leading, world-class comprehensive energy company.

Value-added

- Maintain a stable increase in market share of national installed capacity
- Persist in benchmarking to surpass competitors
- Transform Inner Mongolia Tuoketuo Power Generation Company into a "Four Most" enterprise

Eco-friendly

- Realize ultra-low emission renovation of coal-fired generating units in schedule
- Reach the international leading level in energy conservation and emission reduction
- Develop off shore wind power, solar and thermal power generation
- Improve the percentage of non-aqueous renewable energy

Legal Compliant

- Deepen the "7+1+1" work safety management to ensure "nine eradications" of safety production
- lead the industry in production metrics
- Improve the law-based corporate governance system of "management relying on system, acting in accordance with rules and following the procedures"
- Be strict with political issues and clean governance

Innovation-driven

- Apply for national demonstration projects such as the secondary reheat demonstration project
- Enhance the balanced energy mix and the application of new technology and new equipment
- Explore distributed energy resource areas such as microgrid and the Internet Plus

CSR-minded

- Value the cultivation of technological backbones in production areas
- Value the cultivation of skilled employees in professional areas
- Promote high priority projects (which are the issues concerning the immediate and practical interests of the general public and employees, and the current problems that are most concerned and difficult)
- Deepen the closed-loop management of social responsibility



Key Performance Indicators

Economic

Total Installed Capacity	MW	Total profit	100 million Yuan
2014	41,341	2014	52.12
2015	42,337	2015	65.68
2016	44,338	2016	12.40
2017	48,031	2017	33.00

Generation	100 million KWh	Net profit	100 million Yuan
2014	1,888	2014	35.27
2015	1,697	2015	32.83
2016	1,725	2016	20.08
2017	1,987	2017	24.00

On-grid power	100 million KWh	Proportion of clean and renewable energy	%
2014	1,786	2014	23.93
2015	1,608	2015	26.12
2016	1,635	2016	25.71
2017	1,883	2017	30.00

Total assets	100 million Yuan
2014	3,024
2015	3,034
2016	2,332
2017	2,357

Revenue	100 million Yuan
2014	702
2015	619
2016	591
2017	646

Environmental

Comprehensive power consumption rate	%
2014	5.45
2015	5.32
2016	5.25
2017	5.30

NO ₂ emission rate	g/KWh
2014	0.36
2015	0.24
2016	0.16
2017	0.13

SO ₂ emission rate	g/KWh
2014	0.25
2015	0.17
2016	0.12
2017	0.09

Dust emission rate	g/KWh
2014	0.07
2015	0.05
2016	0.03
2017	0.02

Waste water emission rate	kg/KWh
2014	0.020
2015	0.030
2016	0.027
2017	0.026

Social

Major personal death and injury incident	Times	Number of female employee	People
2014	0	2014	5,402
2015	0	2015	5,468
2016	0	2016	4,232
2017	0	2017	4,081

Major equipment incident	Times	Number of minority employee	People
2014	0	2014	1,528
2015	0	2015	1,554
2016	0	2016	1,006
2017	0	2017	1,076

Common personal death and injury incident	Times	Membership rate of employee	%
2014	0	2014	100
2015	0	2015	100
2016	0	2016	100
2017	0	2017	100

Commnen equipment accident	Times	Coverage of collective contract	%
2014	0	2014	100
2015	0	2015	100
2016	0	2016	100
2017	0	2017	100

On-job employee	People
2014	25,246
2015	24,704
2016	19,817
2017	20,242

HKEX ESG Reporting Guide Index

	"Comply or explain" Provisions	Recommended Disclosures	Disclosure	Report position (Page)	Notes (Explanation on partial disclosure and no disclosure)
A. Environmental					
Aspect A1: Emissions	General Disclosure		✓	26-27	
	A1.1		✓	26-27、 56	
	A1.2		✓	26	
	A1.3		✓	26、 44、 56	
	A1.4		✓	28	
	A1.5		✓	26-27	
	A1.6		✓	29、 32、 44	
Aspect A2: Use of Resources	General Disclosure		✓	28-29	
	A2.1		✓	28、 31	
	A2.2		✓	28、 31	
	A2.3		✓	28-29	
	A2.4		✓	29	
	A2.5		-	-	Power products do not need to consider packaging materials
Aspect A3: The Environmental and Natural Resources	General Disclosure		✓	29-33	
	A3.1		✓	32-33	
B. Social					
Aspect B1: Employment	General Disclosure		✓	48	
		B1.1	✓	48	
		B1.2			
Aspect B2: Health and Safety	General Disclosure		✓	49	
		B2.1	✓	57	
		B2.2			
		B2.3	✓	49	
Aspect B3: Development And Training	General Disclosure		✓	49	
		B3.1			
		B3.2			

	"Comply or explain" Provisions	Recommended Disclosures	Disclosure	Report position (Page)	Notes (Explanation on partial disclosure and no disclosure)
Aspect B4: Labor Standard	General Disclosure		✓	48	
		B4.1			
		B4.2	No Violation		
Aspect B5: Supply Chain Management	General Disclosure		✓	39、 52	
		B5.1			
		B5.2			
Aspect B6: Product Responsibility	General Disclosure		✓	22	Advertising, labeling, privacy issues and remedies do not apply to our company in accordance with Chinese laws
		B6.1	-	-	Power generation companies mainly guarantee the safe and reliable supply of electricity
		B6.2	No related situations		
		B6.3			
		B6.4	-	-	Power generation companies do not have product verification and recycling
		B6.5			
Aspect B7: Anti-corruption	General Disclosure		✓	39	
		B7.1			
		B7.2	✓	39	
Aspect B8: Community Investment	General Disclosure		✓	51	
		B8.1	✓	51-53	
		B8.2	✓	53	

Feedback

Dear Readers

Thank you for taking time to read Datang Power's CSR Report 2017. To improve our performance and our next report, we hope you can give us some feedback on the following aspects:

1. What is your overall impression of the Report?

☐ Good ☐ Poor ☐ Fair
2. To what extent are your topics of interest addressed in the Report ?

☐ Good ☐ Poor ☐ Fair
3. How far has the Report revealed Datang Power's economic, environmental and social impact ?

☐ Good ☐ Poor ☐ Fair
4. How about the readability of the Report, especially in relation to conveniently finding your topics of interest?

☐ Good ☐ Poor ☐ Fair
5. How is the layout of the Report?

☐ Good ☐ Poor ☐ Fair
6. What kind of additional information do you expect to see in the Report?
7. Is there any suggestion on our CSR performance and future Reports?

Which type of stakeholder are you?

Government/regulator	Investor	Community resident	Customer	Financial institution
Technical college	Supplier	Media	Social organization	Others

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About This Report

Dear readers, this is Datang Power's 10th CSR Report. The Report discloses our philosophy, strategies, actions progress and our 2018 in respect of our economic, social and environmental responsibilities. We hope that by publishing the CSR Report we could enhance communication and cooperation with you and strengthen our synergy for sustainable development.

Basis of Compilation

This Report is complied in compliance with a) the Guidelines of SASAC on CSR Performance of Central Stat-owned Enterprises; b) the Environmental, Social and Governance Reporting Guide of HKEX; c) the Circular on Strengthening CSR of Listed Companies and the Guidelines on Disclosure of Environmental Information by Listed Companies of SSE; d) the GRI Sustainability Reporting Standards (GRI Standards) issued by the GRI Global Sustainability Standards Board (GSSB).

Reporting Period

The Report covers the period from 1 January 2017 to 31 December 2017, with some dating back to previous years.

Reporting Cycle

This is the 10th CSR Report published by Datang Power.

Scope of the Report

The Report covers all relevant information of the Company,please refer to P8-P9 of this report.

Data Sources

All financial data in the Report is taken from Datang Power's official internal documents and statistics.

References to Datang Power

In the Report, "Datang International Power Generation Co., Ltd." is also referred to as "We" "the Company", and "Datang Power".

Access to the Report

The report is available in both Chinese and English.

For a hard copy, please contact:

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The report can be downloaded at:

www.dtpower.com

 This report is printed on environmental-friendly paper.