

2015 Social Responsibility Report

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







Our **Greetings**

Dear friend, welcome to the 2015 issue of Datang Power's CSR Report. We keep our commitment to CSR and present it in this report.

Last year, we saw ample progress towards our goals. The 12th Five-year Plan is showing to be a resounding success, the "Four-Pronged Comprehensive Strategy" (it refers to "comprehensively" building a moderately prosperous society, deepening reform, advancing the law-based governance of China and strengthening Party selfdiscipline) have provided suitable guidelines for stable socioeconomic growth, and the five development concepts: "innovation, coordination, green development, opening up, and sharing" have served as a great blueprint.

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Datang Power development is rooted in the aspirations of China. Datang Power development is rooted in the aspirations of China. In 2015, in line with the "new normal" economy, we applied ourselves to providing a safe, steady supply of clean energy, and assumed our responsibilities for resolving social problems and promoting social progress.

We have strived to have a deeper understanding of the concept of "value". Over the past year, no stone has been left unturned to expand markets and control costs, and no time has been spared to boost energy efficiency and to set the benchmark for which all generators will be compared. We have not only maintained or increased State-owned assets, but also created more value for shareholders. We continue to march towards becoming a more eco-friendly company. Over the past year, coal-fired generating units were retrofitted for ultra-low emissions, solar energy was channeled into clean power, and wind farms were established around the country.

We have enhanced our legal compliance. Over the past year, we have strengthened the work style and self-discipline, and made it become the "new normal" at various levels of the Company. Compliance has been integrated into the corporate governance system so as to ensure workplace safety, political correctness, and unquestionable integrity. We have dived deeper into innovation. Over the past year, by streamlining the innovation system, building creative teams and promoting original R&D, we aim to translate technical advances into applications and benefits, and establish innovation as the theme of our success stories.

We have expanded the implication of CSR, upholding the values of practicality, determination, innovation and ambition, we have implemented the national energy development strategy, impelled the power industry to upgrade production, and led in clean development. In addition to increasing capacity to support employee development,

Our Greetings

we have taken measures to ensure employee physical and mental health. We have also provided electricity and heat for countless households, striving to channel business profits into social benefits.

And now, our hopes and dreams are within arms reach. We are poised to develop ourselves into a "Value-added, Eco-friendly, Legal Compliant, Innovation-driven and CSRminded" company. This is our strategic goal, and commitment!





Our **History**

Datang International Power Generation Co., Ltd. was founded in December 1994, with its headquarters in Beijing. In 1997 Datang Power was listed in Hong Kong and London, and in 2006 listed in the Shanghai Stock Exchange. With power generation as the core business,

our business operations also cover coal, coal chemistry, transportation and recycling. Over the years we have transformed from a pure power generation company into a composite energy company.

Over the past two decades, we have managed to reconcile corporate development with social progress. For nine consecutive years have we made it to the list of "Platts' Top 250 Global Energy Companies", in 2015, we were ranked No.138 among all candidates, No.8 among independent power companies, and No.35 in "Asia's Best Overall Performance". We won "Gold Award Financial Performance, Corporate Governance, Social and Environmental Responsibility and Investor Relations Management" by "The





Asset Magazine", and "Top 100 Listed Chinese Companies Award 2014" by Warton Economic Institute and "Top 100 Listed Chinese Companies" by the International Capital Summit Forum.

2015

Installed capacity: 42,337 MW; named as one of the "Platts' Top 250 Global Energy Companies", and " Top 100 Listed Chinese Companies Award 2014" , and "Gold Award Financial Performance, Corporate Governance, Social and Environmental Responsibility and Investor Relations Management" by "The Asset Magazine"

2014

Its installed capacity exceeded 40,000 MW; it was enlisted on "Top 250 Global Energy Companies" by Platts for the eighth consecutive year

Our **Structure**



Over the past 21 years, we have expanded from four thermal power plants, with an installed capacity of 2,850 MW, into a diversified energy company "headquartered in Northern China, rooted in the western China, and growing towards China's coast", with subsidiaries and ongoing projects in 18 provinces, transforming from a thermal power

generation company to an integrated energy enterprise with presence in a variety of sectors and industries.

Datang Power Headquarters	Professional/Regional Companies	Number of Basic-level Companies
		Beijing (3)
General Office for the president	Energy & Chemical Company	Tianjin (1)
(International Cooperation Department) Development and Planning Department	Fuel Company (Hong Kong)	Hebei (10)
Comprehensive Planning Department	Tongzhou Science and Technology Company	Liaoning (5)
Corporate Finance and Capital Management	Nuclear Power Company	Inner Mongolia (14) Shanxi (4)
Department	Inner Mongolia Branch	Ningxia (2)
Human Resources Department	Liaoning Branch	Jiangsu (3)
Finance Department Production Department	Zhejiang Branch Fujian Branch	Jiangxi (3)
Fuel Management Department	Jiangxi Branch	Sichuan (3)
Safety and Environmental Protection	Guangdong Branch	Chongqing (8)
Department	Chongqing Branch (Yuneng Group)	Qinghai (2)
Engineering Construction Department	Yunnan Power Company	Zhejiang (3) Fujian (2)
Enterprise Culture Department (Political Ideology Department)	Shanxi Representative Office	Guangdong (5)
Supervision and Auditing Department	Qinghai Energy Company Preparatory Office	Tibet (1)
		Yunnan (6)

Our Structure

Through constant innovation and systematic exploration, we have continued to improve corporate governance, institutional framework, management and technology. We have set

up a three-tiered management system which specifies the decision-making, executive and supervisory duties, powers and procedures of the General Meeting, Board of Directors, Board of Supervisors and managers to ensure work load, balance decision making and accountability.

Our **Mission, Philosophy and Spirit**



Our

Responsibility

Our Responsibility

benefit-oriented meme have maximized

Eco-friendly

Committed to green production and transition, we are building a resourcesaving, and environment-friendly company equipped with industry-leading generators in energy efficiency and emission level, and lifting the percentage of clean and renewable energy installed capacity to realize the green development, low-carbon development and recycling development.

CSR Management

Seeing the preparation and publishing of the Report as a key link in CSR management, we have optimized our closed-loop CSR management process. The operating information disclosed by the annual CSR Report gives stakeholders a better sense of Datang Power.

After the report was released, we solicited feedback on information disclosure from both internal and external stakeholders so as to identify topics of greatest interest. Stakeholder concerns are taken into account in operational remodeling, of which the outcome will be fully disclosed in the next Report. In so doing, we are able to systematically uplift our management and capacity for creating value.



Stakeholder Survey



Follow-up Report



Stakeholder Management

Safeguarding stakeholders' rights to knowledge, participation and supervision is an important approach to boost business performance, mutual trust and understanding. In 2015, we further improved transparency though engaging multi-channel stakeholders, creating value while meeting their expectations.

Stakeholders	Concerns	Communication Methods	Performance Indicators	Examples of Practices
Government	 National policies and energy security Power and heat supply Legal compliance Tax Structural optimization Energy conservation and emission reduction Increasing employment Management and technical Innovation 	 Laws, regulations and policies Relevant meetings Report works Statistical statements Information submission High-level meetings 	 Scale of installed capacity Power generation capacity Total Profit and tax Jobs provided Energy conservation indicators Emissions reduction indicators Proportion of clean and renewable energies Innovation results 	 On Jan. 26th, we attended the 12th (Enlarged) Meeting of the 12th Beijing Labor Union On Nov. 23^{ef}, we talked with officials from Zhanjiang, Guangdong Province on revving up the Leizhou thermal power project
Shareholders	 Honesty and keeping promises Profit level Standardized operations 	 Setting laws and policies Company announcements Periodic reports Contracts and agreements 	 Shareholder dividends Shareholder rights and interests Sales income Company profit 	 On Aug. 17th and 18th, we held the 2015 Interim Results Press Conference in Shanghai and Hong Kong respectively On the morning of Oct. 29th, we held the 3rd Ad-hoc General Meeting and the 27th meeting of the 8th Board of Directors
Staff	 Democratic rights Health and safety Salary and wellbeing Personal development Education and training 	 Staff representative's meeting Reasonable suggestions Interview Collective contracts Labor contracts Openness of company affairs 	 Work environment Accident rate Labor union membership rate Collective contract coverage ratio Salary levels Investment in staff training Staff turnover rate 	 On the morning of Jan. 18th, we held the 3rd Meeting of the 5th Employee Representative Assembly & 2015 Work Meeting On Aug. 16th, the 9th "Zhengchuang Cup" Staff Badminton Competition opened at Inner Mongolia Tuoketuo Power Generation Company On Aug. 21th, the 13th Datang Professional Knowledge and Skills Competition - Finals for Protective Relay Technicians kicked off
Community	 Harmonious community Public interest enterprise Safety and environmental protection 	 Collaborative construction Public interest activities Safety and environmental protection publicity 	 Investments in community building Public interest investment Number of pollution complaints 	 On Apr. 10th, Hebei Tangshan Thermal Power Company set up a youth volunteer service station at Gongfang Community On Jul. 29th, members of Yunnan Lixianjiang Hydropower Company paid a visit to ex-servicemen On Sept. 27th, youth volunteers from Chongqing Pengshui Hydropower Company signed a student support agreement with a primary school on its doorstep
Client	 Safe and stable supply Electricity price and heat price 	 Contracts and agreements Power and heat products Relevant technical services 	Client satisfaction level	O On Feb. 6 th , we talked with the State Grid Corporation of China on economic benefits and scientific management
Partner	 Honesty and legal compliance Long-term cooperation 	 Contracts and agreements Products and services 	 Honesty level Contract completion rate Period of cooperation Profit 	 On Aug. 29th, we signed with Datong Coal Mine Group a cooperation agreement on synchronized operation of coal mine and power plant On Dec. 29th, Jiangxi Fuzhou Power Generation Company, a Datang-EDF joint venture, put the generating unit 1 on stream
Social Organization	 Contributions to organizations Influence on sustainable development 	O Meetings O Activities	 Frequency and depth of participation in activities Membership fee amount 	O On Sept. 1 st , we hosted in Fuzhou, Fujian Province the Seminar of China Electricity Council Thermal Power Branch on Legal Risks of Coal Import by Coastal Coal- fired Power Companies

Our Responsibility

Value-Scientific Development Supplying Power Added Structural Optimization



Providing clean power improves the quality of life

Clean and green development is not just important for Datang Power, but for everyone. And Datang Power has been working on it.

Over the past two decades, we have stuck to the path of "high efficiency and low carbon, energy conservation and environmental protection by innovating on the development idea and model." We strive to share our benefits with the economy, environment and society by developing efficient, low-carbon energy, improving resource utilization, reducing emissions and performing CSR.

We are devoted to improving the

quality of peoples' lives. Since the very beginning, we have lived up to our commitment to providing countless households and industries with a steady supply of clean, green electricity and

The wave of green development is surging forward. As we continue working together, we can establish a China as a country known for blue skies and clear clean water.



Scientific Development

Low-carbon Thermal Power

Committed to provide a constant supply of clean energy, we have prioritized energyefficiency and environment-friendly thermal power generating units as well as cogeneration and gas turbine units of high overall energy efficiency. In 2015, our restructured thermal power generating units and registered an installed capacity of 35,222.8 MW.



Structure of Thermal Power Generating Units



As Asia's largest thermal power generation site, Inner Mongolia Tuoketuo Power Generation Company is transitioning to have a lower impact on the environment, aiming to "provide clean energy for Beijing without jeopardizing the grassland ecosystem". In 2015, it engaged in a plant expansion project (Phase V) for more clean and efficient production



Jiangxi Fuzhou Power Generation Company has put the generating unit 1 on stream and the generating unit 2 into full operation. Jointly run by Datang Power and France-based EDF, the company measures up to the latest ultra-low emissions standards on the strength of cutting-edge, environment-friendly coal-fired power generation technology as well as desulfurization, denitrification and electrostatic precipitation systems



Guangdong Leizhou Thermal Power Project (Phase I) is building 2x1,000 MW ultra-supercritical coal-fired turbines generating units. By virtue of the state-of-the-art double-reheat technology, it manages to reduce coal consumption to a significantly lower level, even by international standards



Beijing Gaojing Cogeneration Power Plant has leveraged its efficient, low-emission turbines to help reduce air pollution in Beijing. It has filled a gap in China's turbine technology by launching the world's first CCS Demonstration Project for gas-fired power plant. In 2015, the plant stepped up construction of turbinerelated training, commissioning and maintenance centers



Guangdong Zhaoqing CCHP Project (Phase I) plans to build 2×400 MW CCHP units based on gas-steam combined cycle along with heavy-duty turbines. The high-efficiency, low-emission generating units will ease energy constraints in Zhaoqing and Yunfu



The cogeneration project at Zhejiang Shaoxing Jiangbin Cogeneration Company is our first self-built cogeneration project based on a combined gas-steam cycle. The generating unit stays ahead of domestic peers in major economic, environmental and technical indicators. In 2015, the company was entitled as an "environment-friendly enterprise" in Shaoxing City, and granted the 2015 Award for Joint Engagement in Environmental Observation in Zhejiang



Clean Energy

"Clean power generation by eco-friendly plants" is an important approach to socioeconomic sustainability. We are giving more weight to clean and renewable energy including hydropower, wind power and PV power. In 2015, clean and renewable energy accounted for 26.12% of our installed capacity.

> We have successively built wind farms in Inner Mongolia, Liaoning, Hebei, Ningxia, Shanxi, Jiangxi, Fujian and Yunnan so as to provide more reliable and clean power

Qinghai Golmud PV Power Station marries PV power generation with desertification control, making efficient use of land resources and improve the power supply in the Tibetan Plateau with renewable



Huangjinping Hydropower Station: Four Generating Units Put on Stream in 2015

At 11:42, Dec. 21st, generating unit 1 of Huangjinping Hydropower Station of Sichuan Ganzi Hydropower Company came into service after 72 hours of commissioning. The station has thus fulfilled the goal of putting four generating units on stream in 2015.

With an installed capacity of 850 MW, the station will generate an estimated 3.86 billion kWh of electricity each year. Along the main stream of Dadu River, it is next to Changheba Hydropower Station, our largest hydropower project. The 2,600 MW station, after its completion, will supply clean power to Tibetan areas.





In July 2015, Tibet Bodui Hydropower Station put its first generating unit on stream. As our inaugural power project in Tibetan areas without access to electricity, the station is as much a godsend for the locals as a catalyst for socioeconomic development



Supplying Power

Convenient and efficient, the supply of power is linked closely with economic development and people's life. As an integrated energy company, we are dedicated to providing electricity and heat for countless households and industries. From 2011 to 2015, we generated 956.2 billion kWh of electricity and ensured supply on such occasions as APEC China 2014, NPC, CPPCC and public holidays.



Structural





Power Supply for V-Day Parade

In the run-up to the national military parade on September 3rd, we organized emergency drills and worked out the master plan for supplying power as well as special plans and contingency plans - for safe production, environmental protection and public security. By organizing 24-hour patrol around key equipment, we fulfilled the goal of "zero unplanned outages, zero injuries, zero infractions, and zero errors".





EcoUltra-low Emissions Resource Conservation Ecological Protection



Blue Skies for the Winter Olympics

It is our inherent mission and responsibility to make sparing use of limited resources, strike a balance between corporate growth and environmental protection, and pursue the harmonious development of man and nature.

The successful bid for 2022 Winter Olympics cements our faith in building our power plants as the environmental benchmark. As the nearest cogeneration company to Zhangjiakou, a host city of the Winter Olympics, Hebei Zhangjiakou Cogeneration Company has integrated green concept into every rung of its production and operational ladder. It has successively retrofitted the dust collectionand denitrification systems of generating units 1 and 2, basing ultra-low emissions on minimal power consumption and optimal working conditions of equipment.

At Hebei Zhangjiakou Power Plant, we have finished, on schedule, retrofitting eight generating units for ultra-low emissions retrofit for eight generating units which, thenceforth, can pare down annual NO_{x} , SO_2 and soot emissions by 2,718.25 tons, 815.46 tons and 543.65 tons respectively. In so doing, we are contributing our bit to ensuring blue skies during the Winter Olympics.

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Ultra-low Emissions

Strictly complying with the national regulations on pollutant discharge, we have mobilized the whole Company to reduce the emission of SO_2 , CO_2 and "three wastes". As a result, we have recorded zero Class 1-3 environmental incident as well as a substantial decline in total discharge and hourly average excess discharge of all pollutants.



Hebei Xiahuayuan Power Plant has wrapped up a 168-hour commissioning of generating unit 3, of which all indicators meet the ultra-low emissions standards

Region Company Units Zhangjiakou Power Plant Units 1, 2, 3, 4, 5, 6, 7 and 8 Zhangjiakou Cogeneration Company Units 1 and 2 Units 3, 4, 5, 6, 7 and 8 Douhe Power Plant Fengrun Cogeneration Company Units 1 and 2 Hebei Tangshan Cogeneration Company Units 1 and 2 Wangtan Power Generation Company Units 1 and 2 Units 1 and 3 Xiahuayuan Power Plant Qian'an Cogeneration Company Unit 1 Linfen Cogeneration Company Unit 1 Shanxi Units 3 and 4 Yungang Cogeneration Company Inner Mongolia Tuoketuo Power Generation Company Units 1 and 4 Panshan Power Generation Company Unit 3 Tianiin Lvsigang Power Generation Company Units 1 and 2 Jiangsu Units 3 and 4 Wushashan Power Generation Company Zheijang



Generating unit 4 of Zhejiang Wushashan Power Generation Company has become the first coal-fired generating unit in Ningbo, Zhejiang Province to complete ultra-low emissions retrofit

A total of 35 generating units have been retrofitted for ultra-low emissions so far, and another 17 to be retrofitted in 2016. All of our coal-fired generating units will be retrofitted by 2020





Shanxi Yungang Cogeneration Company has wrapped up the ultra-low emissions retrofit for generating units 3 and 4. It was thus entitled as an Outstanding Power Plant in Ultra-low Emissions in Shanxi

Resource **Conservation**

To address the challenges of global climate change, we have integrated green concept into every rung of its production and operational ladder promoted new energyefficient technology and accelerated the rate of retrofitting and upgrading generating units. In 2015, 17 of our thermal power generating units garnered national awards for coal efficiency.

Award-winning Thermal Power Generating Units in Coal Efficiency in China

Category	Award	Units		
660 MW ultra-supercritical	Superb	Unit 1, Jiangsu Lvsigang Power Generation Company Unit 2, Fujian Ningde Power Generation Company		
	Outstanding	Unit 3, Zhejiang Wushashan Power Generation Company		
600 MW supercritical water cooled	Superb	Unit 4, Fujian Ningde Power Generation Company Unit 4, Zhejiang Wushashan Power Generation Comp		
600 MW subcritical water cooled	Outstanding	Unit 1, Hebei Wangtan Power Generation Company Unit 1, Inner Mongolia Tuoketuo Power Generation Company Unit 2, Inner Mongolia Tuoketuo Power Generation Company Unit 4, Inner Mongolia Tuoketuo Power Generation Company		
	Superb	Unit 1,Hebei Wangtan Power Generation Company Unit 4,Tianjin Panshan Power Generation Company Unit 3,Inner Mongolia Tuoketuo Power Generation Company		
600 MW subcritical air cooled	Outstanding	Unit 7, Inner Mongolia Tuoketuo Power Generation Company Unit 8, Inner Mongolia Tuoketuo Power Generation Company		
300 MW water cooled condenser	Outstanding	Unit 5, Hebei Zhangjiakou Power Plant Unit 6, Hebei Zhangjiakou Power Plant		
water cooled condenser	Superb	Unit 8, Hebei Zhangjiakou Power Plant		





Our thermal power companies have furthered the application of energy-loss analysis system and organized performance competitions to lift the energy efficiency of generating units to the pro-rated level



Generating unit 1 of Hebei Wangtan Power Generation Company has won the Second Prize and the Award for Highest Coal Efficiency in the National Competition of 600 MW Subcritical Water Cooled Generating Unit





.48	5.45	5.32	
13	2014	2015	
ary Power Rate (%)			

Ecological Protection

Out of respect for nature, we have paid attention to water and soil conservation and biodiversity protection while judiciously developing and utilizing resources.



To build ecological thermal power, we comprehensively solve issues of coal ash dumps by planting saplings in surrounding fields upstream from the ash and have effectively improve the environment around the coal ash dumps



In order to build ecological mining area, we have taken different measures to fight dust and erosion during mining activities, including soil maturation, ecosystem restructuring, and landscaping







We have optimized our environmental protection management system and spurred all employees into green campaigns like volunteer tree planting and river protection

LegalLegal FrameworkCorporate IntegrityCompliantSafe Production



Safe Production: Our Lifeblood

Workplace safety has a vital bearing on the economy, society and people's life. Building a safe company is where our responsibility to stakeholders lies.

Founded in Tangshan in 1973, Douhe Power Plant sounded the clarion call for "building a model company in safe production" in February 1990. Over the past two decades, it has given top priority to safety, preferred prevention over broad-based control, and promoted energy conservation and environmental protection

During the Safe Production Month in 2015, Douhe Power Plant organized employees to watch a themed documentary, solicited public service ads, and held the Competition of Safe Employee Apartments, knowledge contest and special lectures, so as to equip employees with safety awareness and risk anticipation.

In 2015, Douhe Power Plant became the only company under Datang Power and one of the 48 companies to be honored by the State Administration of Work Safety as Model Enterprise in Safety Culture Building in China.



Legal Framework

Compliance

Adhering to legal framework, we have developed a scientific, standardized and systematic institutional framework to ensure compliance in operation and business handling. Recognitions of our compliance in operations and timeliness in information disclosure include the title of Top 100 Most Trustworthy Listed Companies in China in 2015.



Culture Building

We have put a new premium on building a culture of compliance. Through regular lectures, group discussions and online training, we are spreading legal knowledge to employees and building a culture of compliance and creating good compliant atmosphere.



Constitutional Education





Legal Literacy Campaign



We have specified the powers and responsibilities, rules and regulations, identified the risks and systemized the evaluation. A tighter grip on internal control is made possible by the realtime, whole-process management and online risk monitoring.



Corporate Integrity

At Datang Power, the strengthening of work style and self-discipline has become the "new normal". The past year has witnessed a company-wide education in "Three Stricts and Three Steadies". We have formulated and published the *Selected Practices of Datang Power for Building an Integrity Culture*, organized 608 integrity campaigns, and signed 2,716 letters of commitment with employees at various levels.



Legal Compliant

Upholding the culture of integrity

Safe Production

We have engaged in all-round risk assessment, troubleshooting and rectification so as to ensure the safety of every action, every link and every member of the Company. In 2015, we conducted risk assessment for 19 power companies and 5 other companies. For the 55 power companies of Datang Power, 100% have measured up to the safe production standards, and 65.5% (36 companies) up to the Class I standards.



Class A Reliable Generating Units of China (2015)

Equipment Management

Operation and maintenance are the two wings of our equipment management model. To ensure the reliability and safety of generating units, we have, based on specific methods, standards and tools, conducted whole-process dynamic management, stringent repair planning, phased assessment and evaluation after repair. In 2015, four of our generating units won the national Class A Reliability titles. Over the past five years, we have received 26 Gold Awards for Reliable Generating Units of China.

Maintenance of Hydropower Generating Units

Maintenance Department, together with Automation and Protection Units of Equipment Department, of Chongqing Pengshui Hydropower Company are responsible for maintenance of its electromechanical equipment. They have wrapped up the first round of overhaul for five generating units, ensuring reliable operation of the company.



Pengshui Hydropower Company

Safety Culture

We have systemized the safety training for all employees through the Safe Production Month campaign and other activities so as to foster risk awareness, emergency preparedness and safety culture.

In 2015, we held eight legal training sessions for safe production managers on, among others, the new Safe Production Law, new Environmental Protection Law and Special Equipment Safety Law, and another two sessions for internal control professionals on risk assessment process and management rules. We also trained nearly 2,100 applicants for the Safe Production Management Certificate of National Energy Administration.





Legal Compliant

Training on the New Safe Production Law

Training on the New Environmental Protection Law

Innovationdriven

Innovative Teams Indigenous R&D

Innovative Achievements



Fostering Talent

In pursuit of innovation-driven development, we have strived to build creative platforms and talent pools, systemized and normalized technical innovation, and promoted the application and capitalization of innovations.

At Jiangxi Xinyu Power Generation Company, you will often find groups of young people putting heads together after office hours to share their considerations and obstacles at work or mull approaches to patent mining. I am proud to be one of them. Autumn 2006 saw me grow up from a fresh-faced graduate into a member of Datang family, and then into a repairer after systematic training. The advanced technology and innovative concept imparted by an experienced mentor empowers my constant progress in both theory and practice. I was admitted to Zhangxinxing Innovation I ab of the company in 2015 and now eager to build on its success.

Prioritizing talent strategy, we have marshalled massive resources to establish the innovation labs as capacity building platforms. The lab led by Zhang Xinxing, equips employees with the ability to work and innovate indigenously and capitalize on their business through constructive feedback, technical programs, invention activities and quality control. As of the end of 2015, Zhangxinxing Innovation Lab registered 21 members, 3 patents, and profits of over RMB 600,000.



Innovative Teams

We respect knowledge, intellectuals and innovation, and encourage employees to make innovations for better efficiency based on their posts. Science associations, innovation labs and quality control circles (QCCs) are just a few of our creative platforms where employees serve as the actor, organizer and promoter of institutional, managerial and technical innovation of the company.



As a wellspring of indigenous innovation and core competence, our 30 innovation labs have brought up a contingent of talents who are quick to learn, armed to the teeth with knowledge, and ready to think outside the box



Our 286 QCCs have called on employees to chip away at obstacles at work, and in turn constantly enhance the Company's innovation capacity. In 2015, a QCC at Hebei Zhangjiakou Power Plant garnered an ICQCC Silver Award for the project of "reducing breakdown of enclosed buses for high-voltage transformers"

Indigenous R&D

We have established a three-tiered (headquarters + professional/regional companies + frontline companies) technology management system and redeployed resources to key areas and tasks so as to promote indigenous R&D in an all-round manner.





We have delivered and put into operation China's first homegrown block filter protection device. The device has not only freed Inner Mongolia Tuoketuo Power Generation Company from the problems over electrical output, but also saved large swaths of land and reduced contained pollution and ecological damage. The device received the Second Prize of 2015 Power Science and Technology Award

"Equipment retrofit for the demonstration program of extracting Al₂O₃ from 200,000 tons of high-aluminum fly ash", a project run by High-aluminum Coal R&D Center, a State key laboratory of Datang Power, has ensured the stability of the world's first extraction technique of its kind, and successively received the First Prize of CACE and Inner Mongolia Science and Technology Progress Awards. Another leading technology of the center, "producing road materials with calcium silicate slag", has found wide application for road hardening and other projects in Togtoh







Datang International Chemical Technology Research Institute Co., Ltd. has carried out 21 technical projects including six "863"national programs, and scored considerable success in import substitution in respect of key coal chemical technology. The MTP catalyst it delivered was rated as "world-leading" and granted the Second Prize of Science and Technology Progress Award by China Petroleum and Chemical Industry Federation

Innovative Achievements

We have promoted the research and application of new equipment, materials, processes and techniques, fulfilled our low carbon commitment and spearheaded the green transition of power industry. During the 12th Five-year Plan Period, we invested RMB 490 million in technical innovation, undertaken six "863"national programs as well as 12 key technology R&D programs at the national, ministerial or provincial level, garnered two National Science and Technology Progress Awards, registered 98 ministerial, industry-level or provinciallevel scientific technical achievements, and obtained 658 patents.





Technology of producing high-filler cultural paper with fly ash-extracted SiO₂

Innovation-driven

Applied key technology of integrating calcium silicate resources from silico-ferrite soot and high-aluminum fly ash

Development and industrial production of catalyst for complete syngas methanation

"863" National Programs Undertaken by Datang Power (2011-2015)

Integrated techniques of complete syngas methanation

New methanol-to-olefins techniques

Treatment and reuse of wastewater after crushed coal pressure gasification

CSR-**Staff Growth** minded **Mutual Benefit**



Building a Better China Together

Revering culture and education as an enabler of national prosperity and social progress, we have also included it as a part of our social service and engaged in targeted student support as a form of CSR performance.

My name is Li Guangming. I am from explore the outside world. To live up to family after graduation.

In 2010, my company set up a "Datang to help poverty-stricken students finish

company's commitment doubles my sense When I was a little boy, my father used to whom my colleagues and I have donated them during leisure hours and oshare my struggles and reflections on the pursuit of

> walking out of the mountain village to Chinese dream. Wherever they are on



Staff Growth

Respect and Security

To safeguard employees' rights and interests, we have in strict compliance with laws and regulations, ensured 100% coverage of labor contract and collective contract, adhered to "equal pay for equal job", and paid in a timely manner the premiums of housing provident fund and various types of social insurance. We uphold the effective abolition of child labor and the elimination of all forms of forced and compulsory labor. We have also systemized democratic management, heeded employees' concern, and involved them in daily operation. As of the end of 2015, we registered a total of 24,704 employees, with 5,868 female employees and 1,554 ethnic minority employees.





The unions of four companies were entitled as National Model Homes of Workers

Training and Development

To enhance the overall competence of employees, we have promoted the construction of training bases, carried out annual training plans, and routinely held professional skill and labor competitions. In 2015, we organized 40 professional training programs for 4,034 person-times.

We have comprehensively implemented the 12th Five-Year Talent Plans with a focus on highcaliber personnel. As of the end of 2015, we had 3 "national technical experts", 18 "technical experts in power industry" and 71 "technical experts from state-owned enterprises".



In 2015, our technical training fostered 92 certified technicians, totaling 1,574, and 15 certified senior technicians, totaling 266





Personalized Training

Our basic-level companies have conducted personalized training based on their realities. Given its dispersed workplaces, Guangdong Zhaoqin Cogeneration Company resorts to "WeChat training" via its official account. During the training, Qinghai Golmud PV Power Station allows each employee to take the floor, with the aim of boosting their professional skills and overall competence.

"Chinese dream is a green dream. By supplying green energy to countless households, we hope to ignite beautiful life and let the Chinese dream fly. At Datang Power, there are many people like me who are dedicated to their posts and contributing their efforts to the Chinese dream."

> "Chinese power industry model worker" Shi Xiaoyan from Hebei Fengrun Cogeneration Company

Health and Wellbeing

We have continued to implement policies and measures in favor of employees, and improved their working and living conditions. In line with operational realities and seasonal characteristics, we have organized featured cultural and sports activities to assist employees in developing healthy habits and mindset and influencing others to do the same. We have ensured 100% coverage of regular physical examination and health record.

We are also care about our communities' vulnerable populations. In 2015, we paid 186 visits to 3,515 needy employees, frontline workers and role models.



Night scene of employee dorms of Chongqing Pengshui Hydropower Company



The 9th "Zhengchuang Cup" Staff Badminton Competition

advice.







Fujian Ningde Power Generation Company rolled out a "matchmaking program" for employees

Active Monitoring of Staff Health

In addition to physical examination and record keeping, our health management system includes dynamic active monitoring of staff health in remote areas. The data collected by Nujiang Hydropower Company are analyzed by medical institutions around the country, and Qinghai Energy Company Preparatory Office invited experts to offer healthcare



Mutual Benefit

Expand Exchanges and Cooperation

Based on business integrity and strengths in energy development, management and technology, we are further engaging with the government, civil societies, partners, institutes and other stakeholders, aiming to build responsible supply chains and realize mutual benefit.



Partnership with GE



Comprehensively Deepening Cooperation with EDF



Cooperation Agreement on Synchronized Operation of Coal Mine and Power plant with Datang Coal Mine Group



Potential Cooperation with Qinghai Provincial Government

Actively Carry Out Resettlement

Our hydropower stations are committed to driving local economy, improving the environment, and leading relocated families to better life.



Resettlement in Kangding

Changheba and Huangjinping Hydropower Stations of Ganzi Hydropower Company in Kangding, have built better communities for local Tibetans and helped coordinate their resettlement, as well as re-establish their livelihoods.

RMB 8.8 million has been invested in retrofitting the intake of Guza Town Water Treatment Plant so as to ensure drinking water supply for over 30,000 locals and Sichuan Minzu College students. RMB 17.4533 million has been channeled to a new migrantdominant primary school in Guza. Another RMB 450



Building a Resettlement Arrangement Spot



Gongtan Ancient Town Rebuilt by Pengshui Hydropower Company

million has been spent on an environmentfriendly power station on the bank of Dadu River. We have also assisted the local government with its plan for municipal solid waste treatment station, and never hesitated to release rare fish species for the sake of biodiversity.

Funding a Primary School in Guza

Promoting Community Development

We have unleashed our technical strengths to assist communities with infrastructures and landscaping, and spurred employees into student support, poverty alleviation and other volunteer campaigns. In 2015, Hebei Xiahuayuan Power Plant, Inner Mongolia Tuoketuo Power Generation Company, Tianjin Panshan Power Generation Company and Ningxia Daba Power Generation Company were entitled as National Model Companies.

Supporting Villages

Since 2011, Inner Mongolia Tuoketuo Power Generation Company has been providing targeted support for a village in Horgin Right Front Banner, Hinggan League, Inner Mongolia. It has engaged in an irrigation improvement project which assures villagers of three-acre irrigated land per capita. It has restructured the livestock, built 200 standardized sheep folds, and renovated courtyard walls of 5 km as well as 8 toilets. It has also helped over 30 junior college or technical secondary school students finish their studies.

The counterpart aid, the amount of which snowballed to RMB 4.882 million during the 12th Five-year Plan Period, is pulling the village out of poverty.





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"Finally my home has an electric lamp. It is brighter than all the oil lamps put together. I no longer have to do my homework in dim light. We are so happy."

A girl from Xinghai County, Qinghai Province

Supporting Culture and Education

Culture and education is the key to sustainable development. Over the past years, we have been assisting poverty-stricken areas with educational infrastructures, paying attention to left-behind children, and making targeted donation to support the local education.



Education Support for Left-behind Children

Pengshui Hydropower Company launched school-company joint activities and signed a tripartite student support agreement with Wanzu Primary School to promote the standardized, transparent volunteer services ,invite public supervision and call on more individuals and organizations to take care of left-behind children.

Chongqing Pengshui Hydropower Company engaged in various interactions with povertystricken children in the reservoir area.







Chongqing Wulong Hydropower Company donated books to schools during the Children's Day

Torch of Love

On Jun.25th, 2015, Fujian Ningde power generation company launched a foundation to support a larger number of needy students, orphans and schools in remote areas.



Five-year Outlook

The next five years will see our vision become reality. Strictly implementing the five development concepts:" innovation, coordination, green development, opening up, and sharing", we will give priority to quality and benefits, rev up innovationdriven restructuring, and contribute our clean, efficient, sustainable power business to industrial upgrading, thus building Datang Power into a sustainable integrated energy service provider. Generation restructuring: We will employ clean, efficient coal-fired generators as well as turbines, develop large and medium-sized hydropower bases, and further tap into new energy.

Regional restructuring: We will engage in large-scale energy development in resourcerich regions, and place equal emphases on large-scale energy development and

operational dispersion in coastal areas. To be specific, we will focus on thermal power and new energy in Circum-Bohai-Sea Region, hydropower and other clean energy in Southwest China, mine-mouth coal-fired power and new energy in Central China.

Industrial restructuring: We will promote the coordinated development of coal mine and power plant, keep logistics burden within reasonable limits, strategize for the growth of metallurgical business, seek entry into the power distribution and sales sector, engage in the building of carbon markets, and develop new business models to enhance our competitiveness.

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Five-year Outlook

Equity restructuring: We will strive to streamline our management so as to better repay all shareholders. We hope that the allround restructuring will establish ourselves as a "Added-value, Eco-friendly, Legal Compliant, Innovation-driven and CSR-minded" company.



Third-party **Evaluations**

The advance of economic globalization and urbanization has exposed energy companies to mounting resource consumption, frequent smog spells, El Nino and treacherous climates, thus posing greater challenges to corporate sustainability.

At the critical moment Datang Power issued a critical CSR report, reviewing the Company's track record over the past five years and unveiling a blueprint for the next five years. The Eighth CSR Report sheds as much light on Datang Power's deep insights into CSR as on its unremitting pursuit of sustainable development. Committed to a "Value-added, Eco-friendly, Legal Compliant, Innovation-driven and CSR-minded" company, Datang Power has redefined its value and hailed CSR as a catalyst for corporate growth. In line with national policies and social demands, the Company has promoted itself and the industry to progress by green development, and strategically expanded new energy sectors.

In face of the new challenges and new trends, I hope Datang Power can team up with partners along the industrial chain and go one step further in green production, standardized management and CSR performance.

Zhai Qi, Deputy Secretary General of China Business Council for Sustainable Development



Having issued eight CSR Reports in eight straight years, Datang Power is worthy of its identity as a responsible central SOE. The 2015 issue, focused on the building of a "Value-added, Eco-friendly, Legal Compliant, Innovationdriven and CSR-minded" company, presents a panorama of the Company's ideas, practices and performances in scientific development, ultra-low emissions, ecological protection, compliance, indigenous R&D, employee growth and mutual benefit. The message it spreads meshes with the Ten Principles of Global Compact and showcases the Company's commitment to the UN Sustainable Development Goals.

The topics to be addressed in the Report are determined based on stakeholder survey - on the government, shareholders, customers, media, environmental sectors and communities - and materiality analysis. The full and accurate data and indicators add to the completeness, reliability and traceability of the Report. The mellifluous rhetoric of the greetings tugs at readers' heartstrings and manifests Datang Power's sincerity to stakeholders. And the story at the beginning of each chapter is short and sweet, intriguing and touching.

The theme color, a refreshing shade of light green, makes as much for the readability of the Report as it mirrors the dedication of the Company to clean and green development. And the front cover is a window to the Company's hospitality, vitality, and constant pursuit of sustainability.

In short, it is a well-structured, content-rich CSR Report with eye-catching themes and striking characteristics. I hope that Datang Power can better build on its excellence in stakeholder engagement and information disclosure in the future.

Third-party Evaluations

Han Bin, Executive Secretary General of Global Compact Network China

Key Performance

Category	Performance indicators	Unit	2013	2014	2015
	Installed capacity	MW	39,187	41,341	42,337
	Generation	100 million kWh	1,919	1,888	1,697
	On-grid power	100 million kWh	1,814	1,786	1,608
	Total assets	100 million Yuan	2,933	3,024	3,034
Economic	Revenue	100 million Yuan	752	702	619
	Total profit	100 million Yuan	81.04	52.12	65.68
	Net profit	100 million Yuan	35.27	17.98	32.83
	Proportion of clean and renewable energy	%	20.91	23.93	26.12
	Power supply coal consumption	g of standard coal/kWh	313.77	309.27	305.72
	Composite auxiliary power rate	%	5.48	5.45	5.32
	NO _x emission rate	g/kWh	0.84	0.36	0.24
Environmental	SO ₂ emission rate	g/kWh	0.34	0.25	0.17
Environmentar	Dust emission rate	g/kWh	0.10	0.07	0.05
	Waste water emission rate	kg/kWh	0.04	0.02	0.03
	Availability coefficient of generating equipment	%	91.77	93.70	92.89
	Major personal death and injury incident	Times	0	0	0
	Major equipment incident	Times	0	0	0
	Common personal death and injury incident	Times	0	0	0
	Commen equipment accident	Times	0	0	0
Social	On-job employee	People	23,305	25,246	24,704
	Number of female employee	People	5,251	5,402	5,868
	Number of minority employee	People	1,430	1,528	1,554
	Membership rate of employee	%	100	100	100
	Coverage of collective contract	%	100	100	100

Feedback

Dear Readers

Thank you for taking time reading Datang Power's CSR Report 2015. To improve our performance and our next Report, we hope you can give us some feedback in the following aspects:				
1. What is your overall impression of the Report?				
Good	Poor	🗌 Fair		
2. How far are the topics of your interest addressed in the Report?				
Fully addressed	Not addressed	Partially addressed		
3. How far has the Report revealed the economic, environmental and social impact of Datang				
Power?				
Fully revealed	□ Not revealed	Partially revealed		
4. How about the readability of the Report?				
□ Good	Poor	🗌 Fair		
5. How about 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	🗌 Commu
Customer	Financial institution	Technic
Supplier	🗌 Media	Civil soc
□ Others		

You can contact us at:

Addr.: No. 9, Guangningbo Road, Xicheng District, Beijing Postcode: 100033 Fax: 010-88008111

> Thank you again for your cooperation and support! Datang International Power Generation Co., Ltd.



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About this **Report**

Dear readers, this is the 8th CSR Report of Datang Power. The Report discloses our philosophy, strategies, actions and performance in respect of our economic, social and environmental responsibilities, coupled with our vision for the next five years. We hope that by publishing the CSR Report we could enhance communication and cooperation with you and find synergies for sustainable development.

Compilation Conformance

This Report is aligned with a) the Guidelines of SASAC on CSR Performance of Central 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 Global Reporting Initiative (GRI) Sustainability Reporting Guidelines (G4); and e) and the Guidelines of Chinese Academy of Social Sciences on CSR Reporting for Chinese Enterprises (CASS-CSR3.0).

Reporting Period

The Report covers activities from Jan. 1st to Dec. 31st, 2015, with some dating back to previous years.

Reporting Cycle

This is the 8th CSR Report published by Datang Power.

Organizational Coverage

The Report covers all relevant information of the Company.

Notes on Data

All financial data in the Report is taken from the audited Datang Power Annual Report. Additional data from official internal documents and statistics of Datang Power is included.

References to Datang Power

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

Access to the Report

The report is available in both Chinese and English. For a hard copy, please contact: Tel: 010-8800 8511 Email: wangweidong@dtpower.com The report can be downloaded at: www.dtpower.com

This report is printed on environmentally friendly paper



