



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



2020

## Social Responsibility Report

Environmental, Social and Governance Report





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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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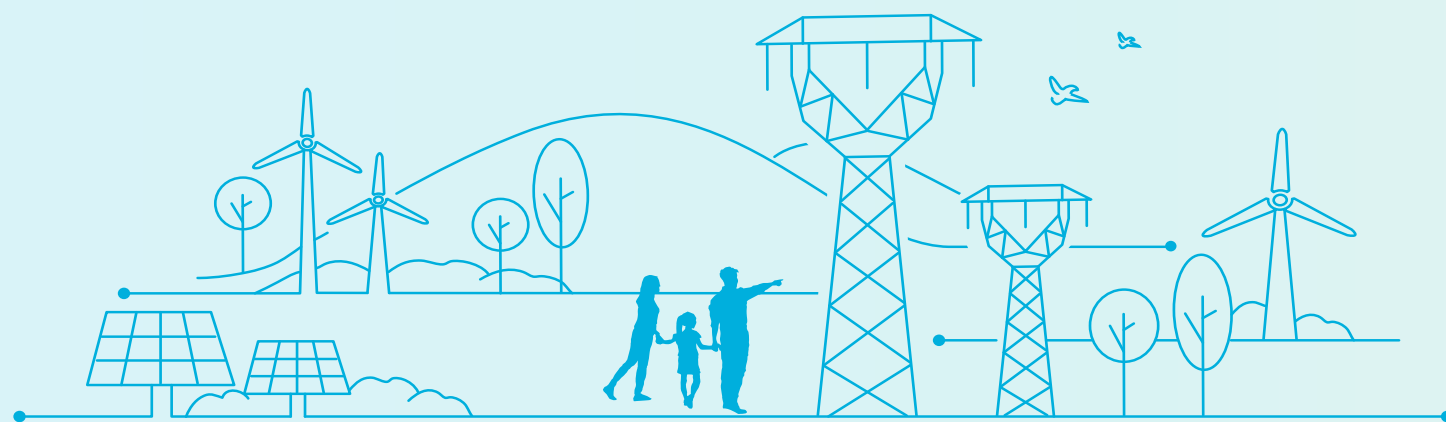
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# Our Greetings

No winter lasts forever, and every spring is sure to follow.

2020 was an extraordinary and unforgettable year.



**In 2020, we upheld Party leadership unwaveringly and undertook the mission of being a development engine boldly.** Adhering to the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, we thoroughly implemented the guiding principles of the 19th CPC National Congress and the Second, Third, Fourth, and Fifth Plenary Sessions of the 19th CPC Central Committee, and resolutely implemented the decisions and policies of the CPC Central Committee. We maintained our strategic focus, and pooled resources for development. We continuously improved the ability to judge and understand political issues and implement political requirements. We always kept our mission in mind, and vigorously fulfilled our political, economic and social responsibilities through practices. We made concerted efforts to fight the COVID-19 pandemic. In addition, we advanced stability on the six fronts and security in the six areas, and demonstrated a great sense of responsibility as a central state-owned enterprise in balancing pandemic prevention and control with economic and social development.

**In 2020, we insisted on innovation-driven development and continued to enhance our independent innovation ability for quality and efficiency improvement.** Deep integration of corporate businesses with the Internet and modern technology helped us guarantee safety, convenience, and

high efficiency. We introduced “cloud channels” for recruiting and training new employees and established cooperation with dozens of colleges and universities online. Supported by information technologies, we held online written examinations and interviews and launched online video training sessions to provide fresh blood for our business development. To build the innovation team, we earnestly stimulated employee initiative and passion for innovation. The highly skilled staff members kept standing out as we continuously innovated in employee training. In 2020, two employees of Datang Power were awarded the title of Technical Expert in Power Industry, eight employees were named Practitioners of the Power Industry with Outstanding Skills, 15 employees were named Group Company-level Technical Experts, and 27 employees were named Group Company-level Excellent Skilled Employees.

**In 2020, we devoted to building a green, low-carbon, safe, and efficient modern energy system.** Projects launched in 2020 added the total capacity by 4.7055 GW, of which 2.4 GW came from Unit 2 of Datang Leizhou Power Station, Unit 1 & 2 of Huludao Thermal Power Station, Unit 2 of Tangshan Beijiao Power Station, and Unit 2 of Shendong Power Station, and 1.3615 GW was contributed by 16 wind power projects, including the Bulongwan wind power project in Shangyi City, Hebei Province, the Tianqiao Mountain

wind power project in Changtu Town, Tieling City, Liaoning Province, and the Julike wind power project in Fuxin City, Liaoning Province. A total of 944 MW of ten photovoltaic projects were connected to the grid for power generation, including solar parks at the Linchuan of Fuzhou Power Plant in Jiangxi Province and in Haixing County, Cangzhou City. We also completed new energy projects with an approved total capacity of 3.7485 GW, of which 569.5 MW came from wind power projects and 3.179 GW came from photovoltaic projects. We strove for safety and stability for the overall situation, realized steady improvements in production, infrastructure, environmental protection, transportation, internet information, and public opinion, and guaranteed sufficient power supply for major events of strategic and political significance.

**In 2020, we spared no effort to facilitate the realization of the CO<sub>2</sub> emissions peak before 2030 by advancing energy conservation and emission reduction.** With ever-increasing input in this aspect, we aimed to realize green transformation, and seek greener production, higher efficiency for generating units, and ultra-low emission. Emphasizing publicity campaigns and trainings on environmental protection, we practiced water saving, energy saving, and consumption reduction systematically, and strongly promoted the comprehensive utilization of the “three wastes” (slag, fly ash, and desulfurized plaster). We continued to release fry of rare and unique fish species, and vigorously promoted green office. Specifically, we consumed only 293.17g of coal for per kWh of electricity generated, 3.06g/KWh less than the previous year. The utilization hours of wind power increased by 95 hours year on year. Nine units of Datang Power were named Class-A Reliable Generating Units and 32 Thermal Power Units won awards at the Power Industry Energy Efficiency Benchmarking and Competition, which accounted for 64.3% and 53.3% of the winners of the same honor in China Datang Corporation respectively.

**In 2020, we insisted on working with partners to create a win-win situation.** Following the trend of power system reform, we actively participated in market-oriented power trade and stove for government and public support. We strengthened cooperation with local governments and communication with the local community.

**In 2020, we insisted on people-oriented development to co-create and share a better life with employees.** We deepened the construction of multiple channels to help employees achieve job promotions. To protect the legitimate rights and interests of employees and truly improve employees’ wellbeing, we worked to meet employees’ urgent needs and help employees tackle difficulties, completing 692 people well-being projects.

We insisted on sharing development achievements with employees. While guaranteeing performance improvement, we realized steady growth in employee income and enhanced their sense of gain, happiness, and security. Fully engaged in the fight against poverty, we made RMB 28.0647 million of donations to targeted poor people in 2020. In addition to setting up assistance funds, our subsidiaries assigned village-based poverty alleviation officials to coordinate targeted poverty alleviation in forms of consumption-driven poverty alleviation campaigns. We invested RMB 3.648 million in consumption-driven poverty alleviation, including RMB 662,500 in assistance-based consumption-driven poverty alleviation. With more innovative input, we contributed to the battle against poverty.

We will usher in a fresh start for the year ahead. Based upon the new development stage, upholding the new development concepts, and deeply assimilating into the new development pattern. Around the theme of promoting high-quality development, we will keep green and low-carbon transformation as the core of development. Driven by the reform and innovation and focusing on the six new goals of realizing new breakthroughs through transformation and development, further improving quality and efficiency, making new achievements through technological innovation, creating a new governance structure, achieving further development in team building, and further enhancing Party building, we will persist in the eight aspects. To be specific, we will adhere to the guidance of Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era to vigorously implement the decisions and arrangements made by the CPC Central Committee; uphold the new development concepts and new energy security strategies for green, circular and low-carbon development; balance safety and development in building an intrinsically safe company; take improve quality and efficiency as the central task; regard innovation as the first driving force while building an innovation system to enhance our innovation capabilities; treat talents as the primary resource, and strive to cultivate high-caliber cadre and talent teams; deepen reform across the board, conduct corporate governance in accordance with the law, and strive to promote the modernization of the governance system and capabilities; uphold the Party leadership and strengthen Party building to achieve the in-depth integration of Party building and company business. We will spare no effort to build Datang Power into a reputable first-class public company that pledges allegiance to the Party and conducts excellent corporate governance. We will undertake due responsibilities for shareholders and employees, serve society, and win the support of investors.



# About Datang Power

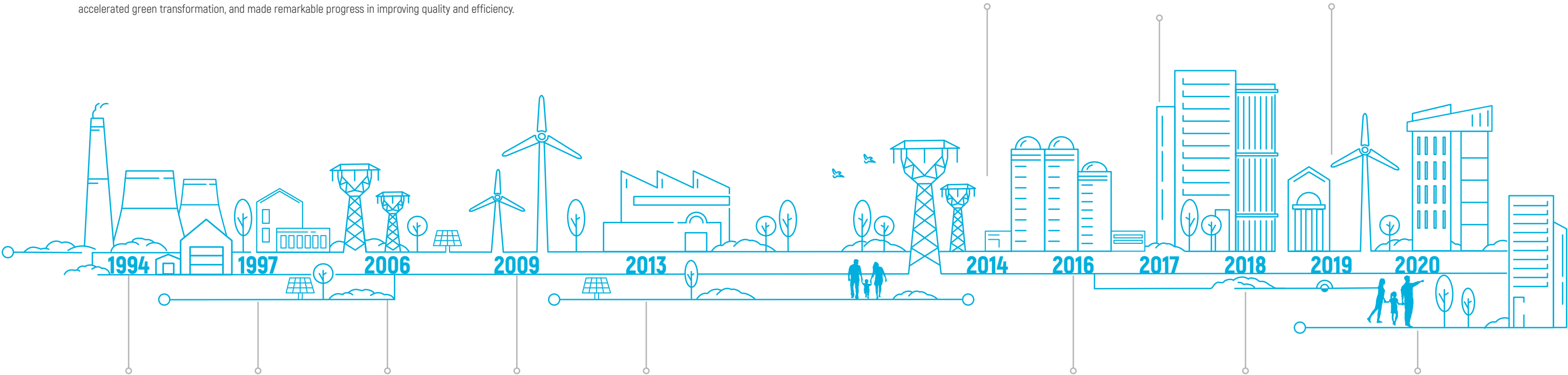
## Development Course

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, making it the first Chinese company to be listed on the SEHK, LSE, and SSE. We have subsidiaries and ongoing projects in 19 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 2020, Datang Power closely adhered to the theme of high-quality development, accelerated green transformation, and made remarkable progress in improving quality and efficiency.

Datang Power was included in "Top 250 Global Energy Companies" by Platts for the eighth consecutive year; installed capacity exceeded 40,000 MW.

With an installed capacity of 48,031 MW, in 2017, the company was listed into the "Top 250 Global Energy Companies" by Platts for 11 consecutive years and awarded "Top 100 Listed Companies in China".

Datang Power installed capacity reached 64,422.6 MW, and we set up an overseas business department to start a new journey for overseas businesses.



Datang Power founded; installed capacity 2,850 MW.

Datang Power was the first Chinese power company listed on the Hong Kong stock exchange (SEHK), and the first Chinese company listed on London stock exchange (FTSE).

Datang Power was listed on the Shanghai Stock Exchange (SSE) making it the first power company to be listed on the SEHK, FTSE, and SSE; installed capacity exceeded 20,000 MW.

Datang Power was included on the Fortune Global 500 and received the "Gold Award for Company" from Asset Magazine.

Datang Power was recognized as "the Most Socially Responsible Listed Company" and "China's Top 10 Listed Company in Corporate Governance"; installed capacity reached 39,187 MW.

Datang Power accelerated its implementation of the 13th Five-Year Plan and executed structural reforms. The company was among the "Top 250 Global Energy Companies" by Platts for the tenth straight year and received a "Top 100 Listed Companies in China" prize; installed capacity 44,338 MW.

With an installed capacity of 62,853 MW, the Company generated a total of 269.704 TWh of electricity, representing a year-on-year increase of 35.74%; the Company was listed into the "Top 250 Global Energy Companies" by Platts for 12 consecutive years.

Total installed capacity of Datang Power reached 68,278.1MW, the installed capacity of clean energy and renewable energy projects of the Company accounted for 29.4% of the total. The Company continued high-quality development.

## Industrial Layout



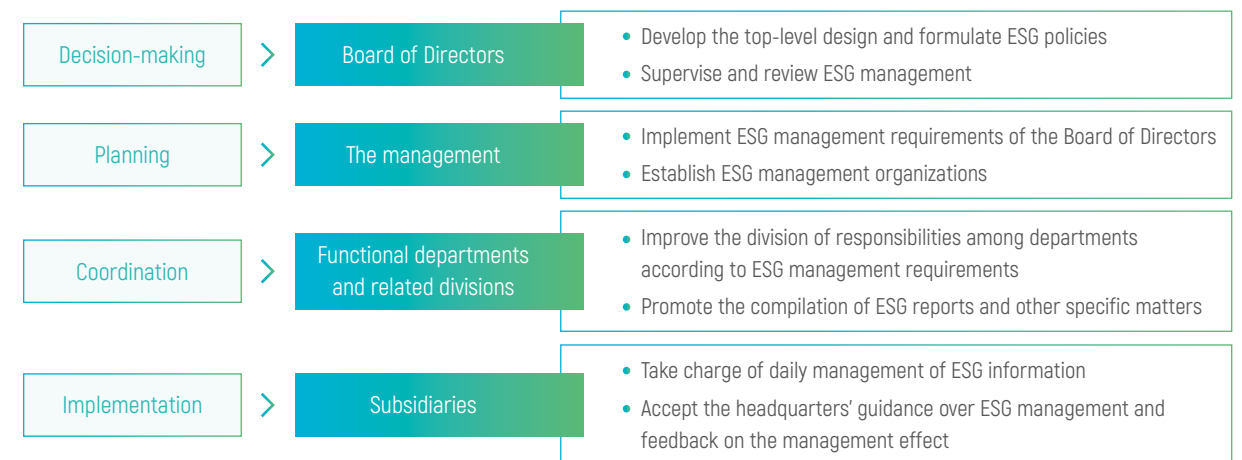
# Corporate Governance

## Governance Structure

**Standardizing corporate governance.** We have established a corporate governance structure composed of the shareholder meeting, the Board of Directors, the Board of Supervisors, and the management. According to the requirement of the Organization Department of the Central Committee of the CPC and the Party Committee of the SASAC that Party building in state-owned enterprises should be written into the articles of incorporation, we have emphasized the legal status of Party organizations in the corporate governance structure, and defined duties, powers, and procedures of all departments, including Party organizations, so that all levels of departments could operate according to laws and perform their duties and fulfill their responsibilities properly, thus effectively protecting the interests of shareholders.

**Enhancing risk management and control.** In line with regulations of the SASAC on comprehensive risk management, we have established and implemented a sound comprehensive risk management system and formulated the *Datang Power Administrative Measures on Internal Control* and *Datang Power Administrative Measures for Comprehensive Risk Management* to consolidate the foundation for risk management and control. In 2020, the Company prepared comprehensive risk management reports to carefully analyze the possible impacts and losses that might be caused by various risks. The reports also clarified risk prevention and control objectives and put forth practical and feasible countermeasures to help the Company prevent and resolve various risks and avoid major accidents caused risks.

**Enhancing ESG management.** According to requirements of Hong Kong Exchanges and Clearing Limited (HKEX), we have enhanced ESG management and created a work mechanism to ensure coordination among departments. The Board of Directors, as the decision-making body, develops the top-level design and reviews the efficacy of ESG management. A planning and development strategic committee, an environmental protection management leading group, and other work mechanisms have been established at the management level to improve the organizational structure for ESG management and report to the Board of Directors. Functional departments and ESG-related divisions coordinate and participate in ESG management. Subsidiaries of Datang Power align their functions with the Company and receive the Company's guidance on and implement related requirements on ESG management.



Promoting the establishment of ESG management mechanisms





In 2020  
Lawsuits against corruption  
0

Compliance Management

**Tightening anti-corruption supervision.** In compliance with the *Anti-Money Laundering Law of the People's Republic of China*, the *Criminal Law of the People's Republic of China*, and other laws and regulations on the prevention of extortion, fraud, and money laundering, we have formed a supervision structure composed of business supervision, risk internal control supervision, audit supervision, and discipline enforcement supervision.

**Strengthening anti-corruption training.** We have compiled a collection of corruption cases for warning and educating the staff and enhancing the anti-corruption awareness of all employees. The collection summarizes disciplinary violations by category, which are analyzed based on Party regulations and disciplinary provisions to maximize the warning and education effect. In September 2020, the Company launched an online training class on audit and risk control compliance management to enhance audit and risk management as well as anti-corruption capabilities of employees.

**Opening up channels for reporting corruption.** We open up channels for reporting corruption and disclose the reporting hotline to informants. Right before major festivals, we assign specific tasks to discipline inspection cadres in terms of guiding grassroots discipline inspection committees to carry out supervision and daily work, and quickly investigate and handle corruption cases. Additionally, the Company keeps informants' private information strictly confidential. We prohibit any discrimination and retaliation against the informants or any suppression of voice expression.

CSR Management

Highly valuing coordinated development between business operations and economy, environment, and society, we continue to integrate the concept of social responsibility into our development strategies and business operations, and work with stakeholders for a sustainable future.

Material Issues

We based on the ESG Reporting Guide published by Hong Kong Exchanges and Clearing Limited, GSSB (GRI standards) , we benchmark against the best CSR reports prepared by our peers at home and abroad, and take into account the status quo of the electricity industry and the Company's development to identify key issues that is significant to stakeholders and the Company's sustainable development.

Party Building	Pandemic Prevention and Control	Clean Energy	Poverty Alleviation	Carbon Management
Power Market Development	Energy Saving and Emission Reduction	Ultra-low Emission	Protecting the Ecological Environment	Work Safety
Win-win cooperation	Compliance Management	Risk Management	Technological Innovation	Employee Rights
Employee Development	Occupational Health	Community Development	Voluntary Service	Communication with the Public



Our official WeChat

Stakeholders Engagement

We maintain communication with various stakeholders, through releasing CSR reports regularly, opening a CSR column on the official website of the Company, and organizing Open Day activities, consciously accepted the public supervision. With diversified communication mechanisms and channels, we listen to the voices of different parties and respond efficiently.

Stakeholders	Concerns	Communication Methods	Performance Indicators
Government	<ul style="list-style-type: none"><li>Party Building</li><li>Pandemic Prevention and Control</li><li>Clean Energy</li><li>Poverty Alleviation</li><li>Compliance Management</li><li>Technological Innovation</li></ul>	<ul style="list-style-type: none"><li>Laws, regulations and policies</li><li>Relevant meetings</li><li>Report works</li><li>Statistical statements</li><li>Information submission</li><li>High-level meetings</li></ul>	<ul style="list-style-type: none"><li>Power generation capacity</li><li>Total Profit and tax</li><li>Jobs provided</li><li>Innovation results</li></ul>
Shareholder	<ul style="list-style-type: none"><li>Power Market Development</li><li>Work Safety</li><li>Risk Management</li></ul>	<ul style="list-style-type: none"><li>General meetings</li><li>Company announcements</li><li>Periodic reports</li></ul>	<ul style="list-style-type: none"><li>Shareholder dividends</li><li>Shareholder rights and interests</li><li>Sales income</li><li>Company profit</li></ul>
Staff	<ul style="list-style-type: none"><li>Work Safety</li><li>Employee Rights</li><li>Employee Development</li><li>Occupational Health</li><li>Pandemic Prevention and Control</li></ul>	<ul style="list-style-type: none"><li>Staff representative</li><li>Reasonable suggestions interview</li><li>letters and visits</li><li>Collective contracts</li><li>Labor contracts</li><li>Openness of company affairs</li></ul>	<ul style="list-style-type: none"><li>Work environment</li><li>Accident rate</li><li>Labor union membership rate</li><li>Collective contract coverage ratio</li><li>Salary levels</li><li>Investment in staff training</li><li>Staff turnover rate</li></ul>
Community	<ul style="list-style-type: none"><li>Pandemic Prevention and Control</li><li>Poverty Alleviation</li><li>Community Development</li><li>Voluntary Service</li><li>Communication with the Public</li></ul>	<ul style="list-style-type: none"><li>Collaborative construction</li><li>Public welfare activities</li><li>Safety and Environmental protection publicity</li></ul>	<ul style="list-style-type: none"><li>Investments in community building</li><li>Public welfare investment</li><li>Number of pollution complaints</li></ul>
Client	<ul style="list-style-type: none"><li>Clean Energy</li><li>Power Market Development</li><li>Communication with the Public</li></ul>	<ul style="list-style-type: none"><li>Contracts and agreements</li><li>Power and heat products</li><li>Relevant technical services</li></ul>	<ul style="list-style-type: none"><li>Client satisfaction level</li></ul>
Partner	<ul style="list-style-type: none"><li>Technological Innovation</li><li>Compliance Management</li><li>Win-win cooperation</li></ul>	<ul style="list-style-type: none"><li>Contracts and agreements</li><li>Products and services</li></ul>	<ul style="list-style-type: none"><li>Honesty level</li><li>Contract completion rate</li><li>Period of cooperation</li><li>Profit</li></ul>
Environment	<ul style="list-style-type: none"><li>Clean Energy</li><li>Carbon Management</li><li>Energy Saving and Emission Reduction</li><li>Ultra-low Emission</li><li>Protecting the Ecological Environment</li></ul>	<ul style="list-style-type: none"><li>Environmental information disclosure</li><li>Energy conservation and emission reduction promotion</li><li>Environmental impact assessment</li></ul>	<ul style="list-style-type: none"><li>Installed capacity</li><li>Ultra-low emission transformation of units</li><li>Proportion of clean and renewable energy</li><li>Energy conservation indicators</li><li>Emission reduction indicators</li></ul>
Social Organization	<ul style="list-style-type: none"><li>Technological Innovation</li><li>Communication with the Public</li><li>Community Development</li></ul>	<ul style="list-style-type: none"><li>Meetings</li><li>Activities</li></ul>	<ul style="list-style-type: none"><li>Frequency and depth of participation in activities</li><li>Membership fee amount</li></ul>

# Feature

## Fighting against Poverty through Concerted Efforts

We have enhanced political stance, resolutely implemented the decisions and policies of the CPC Central Committee and the State Council on poverty alleviation work. In our targeted management model, we have strengthened the organization and leadership of poverty relief work, clarified poverty alleviation responsibilities of each department, strengthened talent and financial support, and conducted the appraisal of poverty alleviation performance. By improving our work styles and promoting poverty alleviation among all employees, we consolidate the results of poverty eradication through various means, creating a "targeted" sample of poverty alleviation and contributing to poverty alleviation and a decisive victory in building a moderately prosperous society in all respect. In 2020, we made RMB 28.0647 million of donations to targeted poor people, contributed RMB 4.3105 million to consumption-driven poverty alleviation and assistance-based consumption-driven poverty alleviation campaigns, and helped lift 11 targeted villages out of poverty.



Scientific and effective solutions to poverty alleviation

**A three-tier combat system with a clear division of responsibilities.**

Adhering to the principle that the lower tier shall follow the lead of the higher tier in fulfilling responsibilities, Datang Power established a three-tier system comprising the Datang Power poverty alleviation leading group, poverty alleviation leading groups at grassroots enterprises, and village-based work groups to form a top-down organizational, leadership, and work system for poverty alleviation work. Emphasizing the headquarters' role in guiding and supervising poverty alleviation work and grassroots enterprises' role in performing specific responsibilities, we integrated the appraisal of poverty alleviation performance into the annual performance appraisal of grassroots enterprises, with whom we had signed the letter of commitment on implementing poverty alleviation responsibilities. Grassroots enterprises made timetables and roadmaps to further refine their goals and tasks, thus effectively improving the quality and effectiveness of poverty alleviation work.

**Strengthening supervision of poverty alleviation work and providing guarantees in all aspects.**

Attaching great significance to conduct improvement, we made great efforts in solving prominent problems in poverty alleviation, including the lack of understanding, less targeted measures, few significant achievements, impractical work, and an unclear division of responsibilities, effectively enhancing the efficiency of poverty alleviation work. While continuously increasing our investment in poverty alleviation funds, we strengthened transparency in management and attracted more investment in poverty alleviation funds from other sources to maximize the efficiency and benefits of such funds.

**Combining the strengths of multiple parties to create win-win results.**

Adhering to the general principle of high-quality development in 2020, we integrated poverty alleviation projects driven by industry development with the Company's strengths in major businesses. By deepening our cooperation with local governments, we promoted the operation and development of poverty alleviation projects driven by industry development with the support provided by the development of our major businesses.

## Improving the Top-level Design

Taking targeted measures lies at the core of poverty alleviation and development. We have established sound systems and mechanisms and developed a top-level design for the precise management model. Starting from reality, we keep improving existing work plans. We work hard on the top-level design all the way down to specific practices, continue to learn from our past experiences and enhance innovation, and develop scientific and effective solutions to poverty alleviation.

For those with work capacity, we helped them get rid of poverty by supporting the development of local industries and creating nonagricultural employment opportunities for the surplus rural workforce.

For zones that cannot be developed or allowed only limited development where the ecological environment was fragile, we set up public welfare positions, such as forest rangers, to create employment opportunities, and thus contribute to poverty alleviation.



For those who have lost their work capacity, we ensured proper medical treatment, assisted those with disabilities, and guaranteed their basic living conditions. By steadily implementing the distribution of dividends from the investment of collective assets, we ensured basic lives of poor people.

We strengthened medical and temporary assistance as well as humanitarian aid for people in illness-induced poverty.



Visiting a villager of a targeted poverty alleviation village.

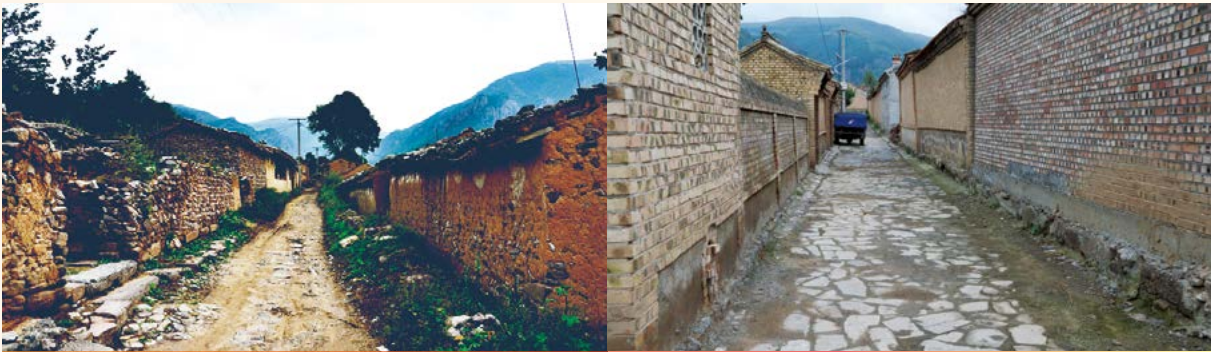


# Infrastructure Improvement

Poor infrastructure has been a common problem of poor villages. The Company's village-based work groups promote infrastructure improvement in poverty-stricken villages by repairing roads, laying drinking water pipeline networks, renovating dilapidated houses, etc. to gradually improve the quality of life of local villagers.

## Case Meeting villagers' needs for basic public service facilities

To ensure the safety and warmth of the villagers in winter, the village-based work group in Xiahuayuan Power Station, Hebei Province purchased more than 300 tons of clean coal for the villagers, distributed 252 low-carbon stoves, and installed 275 CO detectors for free, ensuring the safety of local villagers while contributing to the realization of the goal of defending blue sky.



Pictures of a road before and after the repairment by Hebei Zhangjiakou Power Station.

# Enhancing Confidence and Improving Education Access

Helping people increase confidence in their own ability to lift themselves out of poverty and seeing that they can access the education they need to do so provide the endogenous drive for the poor to get rid of poverty, and it is also the greatest obstacle in winning the fight against poverty. Rather than adopting strong stimulus policies, we introduce targeted measures and shift the focus of our poverty alleviation and development model from "direct support" to "self-sufficient development." By helping poor people increase confidence in their own ability to lift themselves out of poverty and seeing that they can access the education they need to do so during the fight against poverty, we have stimulated impoverished people's will and ability to get rid of poverty.

## Case Supporting the collective economy and increasing villagers' income

Tianjin Panshan Power Generation Company helped Xiyunzhuang Village establish a collective enterprise to undertake house demolition and waste clearance and transportation work. Since the assistance started, the per capita disposable income of farmers in Xiyunzhuang Village has increased from RMB 19,000 in 2017 to RMB 27,500 in 2020, exceeding the average income level of Tianjin City and the assistance target set by Tianjin Municipal People's Government.

Hebei Zhangjiakou Thermal Power Company donated RMB 300,000 of assistance funds to Zhangjiakou Xufeng Agricultural Development Co., Ltd. in Hujia Village, Wangjiawan Township for processing and producing sweet-waxy corn and toona sinensis. The project changed the villagers' stereotype that only farming could bring income and helped Hujia Village work towards the goal of building a strong and popular agricultural product brand at a faster pace.

# Consumption-driven Poverty Alleviation

To avoid targeted villages already out of poverty return to poverty again because of the COVID-19 pandemic, we strengthen consumption-driven poverty alleviation by carrying out poverty alleviation projects in proper order and implementing poverty alleviation fund programs in addition to coordinating pandemic containment and high-quality development, representing the final stage of winning the battle against poverty in an all-round way.



Hebei Qingyuan Thermal Power Company purchases unsalable agricultural products.

## Case Consumption-driven poverty alleviation campaigns

During the pandemic, grassroots enterprises of Datang Power took the initiative to purchase unsalable agricultural and sideline products and widened sales channels to stimulate the sales of products of poverty-stricken areas and tackle prominent difficulties of locals.

Inner Mongolia Tuoketuo Power Generation Company organized the "Helping Farmers Through Consumption-driven Poverty Alleviation" campaign and purchased specialties of Hubei through the Poverty Alleviation 832 (fupin832.com) platform.

Hebei Wangkuai Power Generation Company developed an assistance-oriented procurement plan and purchased unsalable hot and sour noodles, tartary buckwheat noodles, etc. from Hubei Province.

Tianjin Panshan Power Generation Company, Hebei Wangtan Power Generation Company, Hebei Chengde New Energy Business Unit, etc., purchased unsalable agricultural products in poverty-stricken areas of Gansu Province instead of making direct donations.



Hebei Matou Thermal Power Branch, Hebei Wu'an Power Generation Company, Hebei Baoding Thermal Power Plant, and Hebei Qingyuan Thermal Power Company purchased unsalable pears of Wei County, Hebei.

Hebei Tangshan Thermal Power Company organized employees to purchase oatmeal, raisins, black peanuts, and other products from the national poverty alleviation platform.

Hebei Zhangjiakou Power Plant spontaneously purchased hazelnuts, mushrooms, and wild herbs grown by villagers in targeted poverty alleviation villages, and contacted direct sales platforms and social volunteer groups to help boost sales of the villagers, thus widening local villagers' income channels.



# Innovation

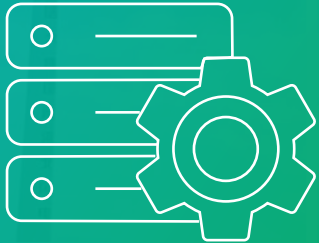
## A Drive for Development

Innovation is the primary driving force for development. To adapt to the new normal of economic development, the key is to transform technological innovation into development momentum. Adhering innovation-driven development, Datang Power has established innovation systems and mechanisms to enlarge the team of technological professionals, promote the transformation of technological achievements, and inject technological power into the first-class public company.



Obtained **260** patents

Revised **21** industry-level  
or higher-level standards.







In 2020

China Workers' Technical  
Achievement Award

8

Energy Innovation Award

1

China Power Innovation  
Award

2

## Culture of Innovation

We constantly improve the three-tiered technology management system composed of the headquarters, specialized companies and regional companies, and grassroots enterprises. Besides, we have revised multiple management systems and strengthened the top-level design for science and technology management, aiming to create a sound platform for technological innovation. In 2020, the Company revised 21 industry or higher-level standards.

### Case Implementing the innovation-driven development strategy for the construction of technological innovation

Assimilating innovation-driven development into the corporate development strategy, Inner Mongolia Tuoketuo Power Generation Company has established innovation-related organizations, such as the Technology Management Committee, and formulated a series of technological innovation and result application management systems, such as the Science and Technology Awards Management Measures, to consolidate and promote existing technological achievements, improve the safety, economy and reliability of production and operation, and push for high-quality corporate development with the support of strong technological innovation capabilities. In 2020, a total of 19 technological achievements of Inner Mongolia Tuoketuo Power Generation Company won industry-level technological achievement awards and obtained 38 authorized patents.

## Innovation Teams

Capable teams are primary sources of technological innovation. Attaching great importance to building innovation teams, we have adopted market-oriented measures in deepening the reform of our technological innovation systems and mechanisms, aiming to encourage employees to innovate for higher efficiency on their own positions and boost the vitality of corporate development.

Chongqing Pengshui Hydropower Company regards staff innovation workshops as the soil for cultivating technological innovation and intelligent manufacturing. The company's technological innovation achievement - Standardization Boosts Modernization of Business Management won the Second Prize of National State-owned Enterprise Management Innovation Award.

Hebei Tangshan Thermal Power Company, integrating competitions with technological innovation, has fully played the leading role of staff innovation studios. It completed 37 technological innovation and energy-saving renovation projects, including "backwashing of the water side of the heating network heater" and "the installation of wind barriers outside the air pre-heater to reduce blockage of the air preheater," generating over RMB6.4 million in economic profits throughout the year.

### Case Opening up channels for high-quality talents

Surrounding the "Five Little" (little inventions, innovations, creations, designs, and suggestions) campaign as well as activities of the QC circle, Inner Mongolia Tuoketuo Power Generation Company has set up around 60 technological research teams successively to tackle problems that have long plagued production and seek breakthroughs. While providing fertile soil for the growth innovations, the company also trains and selects technological leaders. It has successively established four innovation studios where experts mentor ordinary employees, effectively solving the problem of "talent gap" between expert employees and ordinary employees.

### Case Building a team of various types of professionals

To build a talent training base for million-kW-level generating units, Jiangxi Fuzhou Power Generation Company makes great efforts in cultivating five categories of talents, namely experts, talents with the spirit of the craftsman, talents good at winning competitions, talents with strong innovation capabilities, and talents with practical skills. By fully tapping employees' potential, the company strives to build a talent team with strong expertise, great job skills, excellent work styles, and outstanding performance.

Guide professional and technical staff to develop into research staff and experts responsible for solving problems in production and solving technical bottlenecks, and give play to the exemplary and leading role of experts

With basic work of each post as the starting point, sort out the content of the post, clarify the knowledge points of the post, increase the capacity building of the staff, and accelerate the cultivation of talents with craftsmanship

Establish a sound and reasonable talent incentive mechanism and cultivate talents with scientific and innovative thinking and the ability to solve problems



Integrate scientific research competitions into the talent training model, tap the potential of talents, and solve technical problems with accumulated job skills and experiences

Attach importance to exploring and training talent with practical skills, vigorously promote the spirit of model workers, and strive to create an atmosphere that advocates hard work and enterprise



# Transformation of Technological Achievements

The transformation of technological achievements is the key to the transition from science to technology and further to economic profits. We vigorously promote innovation results and apply technological achievements into production, and thus form a virtuous circle between innovations and improved efficiency. In 2020, the Company obtained 260 patents, including 30 patents for inventions.

## Case Independent development of the "geological disaster monitoring and early warning system"

Chongqing Keyuan Energy Technology Development Company established a geological disaster risk early warning and emergency response system. Based on the Beidou-GPS dual-mode positioning system, video-based face recognition, and other technical approaches, the system can spot safety risks in time, thus preventing or reducing dangers to life and national property losses that may be caused by geological disasters. The system has been put into use in Chongqing Yinpan Power Station, Chongqing Pengshui Hydropower Station, Yuneng Group, and other companies, and will be promoted among more organizations while being constantly upgraded. The sharing of geological disaster monitoring and early warning resources and effective risk management and control help enhance comprehensive disaster prevention, mitigation, and relief capabilities of enterprises.

## Case Promoting the construction of smart power plants

Inner Mongolia Tuoketuo Power Generation Company has actively studied the application of the Internet, IoT, cloud computing, and other information technologies in production and operation. Among all the research projects, the Research on Key Technologies for Optimizing Efficiency and Intelligent Control of Large Air-cooled Generating Units helps enhance equipment reliability and improve air-cooling islands' antifreeze capability in winter and load capacity in summer. In addition, the company manages to save 1.5 to 3 grams of standard coal for per kilowatt-hour generated with the sprinkler system.



Hebei Douhe Power Plant has upgraded the original equipment operation monitoring technology with the support of big data, industrial internet, and other advanced technologies, and transformed more than 40 years of operation experiences and data into digital models. It has developed and put into use the "generating unit auxiliary early warning system" to realize online analysis of and early warning on the operation of generating units.



## Case Safeguarding safety through science and technology

Beijing Gaojing Thermal Power Plant, highlighting the role of science and technology in safety protection, integrates cloud technology into safety supervision to create an economical traffic monitoring system based on IoT-based cloud storage. The company adopts a standardized "cloud appointment" mode for handling work tickets, which ensures one-to-one appointments for work tickets and operation tickets within the plant and effectively improves efficiency. Besides, manual registration and temperature measurement has been replaced by face recognition and body temperature monitoring cloud gates to guarantee one-stop health management.



The economical traffic monitoring system based on IoT-based cloud storage of Beijing Gaojing Thermal Power Plant.

## Major technological projects undertaken by Datang Power in 2020

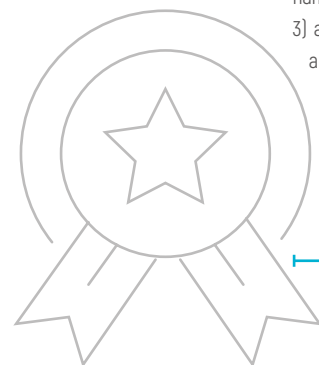
Project level	Project name
The sub-project of a national project	Enhanced Desilicization of Fly Ash – Research on Mild Extraction of Alumina
	Research on Key Technologies and Large-scale Application of Smart Energy.
Corporation-level projects	Research on and Demonstration of Key Technologies for Safety Protection in Industrial Control Systems.
	Research on Information Security
	Research on Key Technologies for Flexible Energy Storage and Peak Shaving of Thermal Power Plants and Graphene-based Energy Storage.
	Active Support and Guarantee Technology for New Power Systems.
	Research and Application of Key Technologies for Autonomous Operation and Maintenance of Gas Turbines
	Research on Intelligent Cooperative Management Technology of Water and Gas Pollutants in Coal-fired Generating Units and Management System Development
	Research and Demonstration of Advanced Control and Intelligent Operation of Gas Turbine Power Plants



Young employees of Hebei Wu'an Power Generation Company actively participate in the "Five Little" innovation campaign to apply new ideas and methods to actual production.

## Case Stimulating the passion of the young through the "Five Little" campaign

Hebei Wu'an Power Generation Company held the "Five Little" campaign in four steps, namely 1) making publicity and launching the campaign, 2) implementing the campaign, 3) appraising the results and presenting awards, and 4) summarizing the campaign and putting forth suggestions for improvement. Focusing on key tasks, such as safe operation of generating units, equipment performance improvement, cost reduction and efficiency enhancement, young employees were encouraged to delve into problems deeply, put forward "golden solutions", and try out new approaches for technological improvements. The campaign also helped to promote valuable projects and apply research results into practice.





# Coordination

## Creating Values with Concerted Efforts

Upholding coordinated development and work safety, Datang Power vigorously develops new energy sources, such as wind and solar power, uses coal power cleanly and efficiently, actively develops large- and medium-sized hydropower projects, selects gas turbines with excellent overall performance, and provides comprehensive energy services, in a bid to create a new pattern of high-quality development.

The installed capacity of clean energy and renewable energy projects of the Company accounted for

**29.4**%  
of the total



**16** wind power projects were connected to the grid for power generation

To completed the ultra-low emission renovation of  
**106** coal-fired generating units in service

**10** solar power projects were connected to the grid for power generation





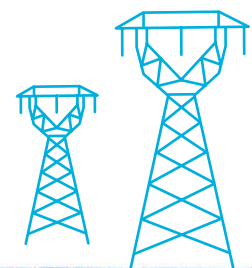
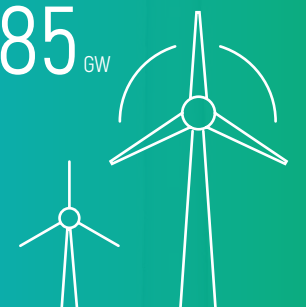
# Clean Energy



Beijing Qinghuiling Wind Power Project

In 2020, New energy projects of the  
Company guaranteed a total approved

capacity of **3.7485** GW



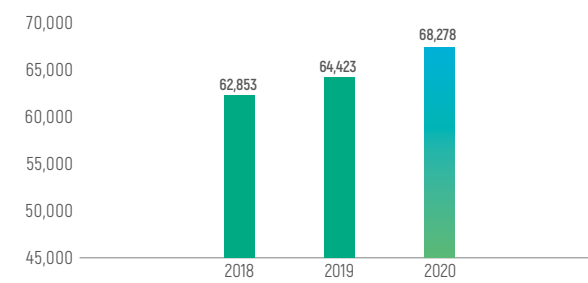
To pursue innovative, coordinated, green, open and shared development, we continue to improve our energy structure and power supply structure. Focusing on the transformation towards green and low-carbon development, we strive to develop clean and renewable energy. In 2020, sixteen wind power projects with a total capacity of 1.3615 GW and ten solar power projects with a total capacity of 944 MW were connected to the grid for power generation. The installed capacity of clean energy and renewable energy projects of the Company accounted for 29.4% of the total. New energy projects of the Company guaranteed a total approved capacity of 3.7485 GW, of which 569.5 MW came from ten approved wind power projects and 3.179 GW came from 35 solar power projects.

## Case Creating a comprehensive energy development project by combining wind, solar, and thermal power to build a new energy development model

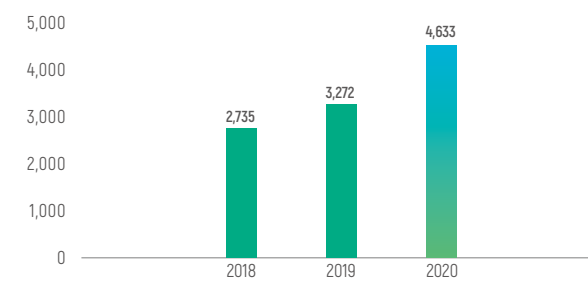
Inner Mongolia Tuoketuo Power Generation Company actively innovates in the energy development model and has created a comprehensive energy development project by combining wind, solar, and thermal power in addition to using existing power transmission channels and rich wind and solar energy resources in Inner Mongolia. After put into operation, the project will increase the contribution of wind power to the power supplied to Beijing-Tianjin-Tangshan region, enhance the power system's capacity and efficiency to absorb wind power and other intermittent renewable energy sources, increase the share of renewable energy in energy consumption, and promote diversified and clean energy production. Meanwhile, the project will maximize land utilization rate and open up a new channel for developing incremental new energy through existing transmission channels.



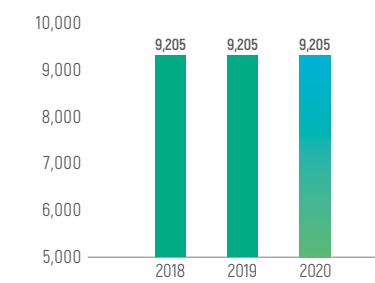
Total installed capacity (MW)



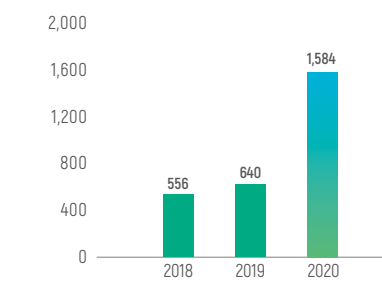
Installed wind power capacity (MW)



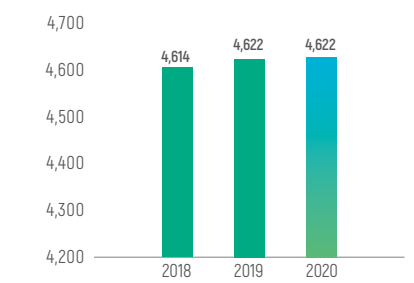
Installed hydropower capacity (MW)



Installed solar power capacity (MW)



Installed gas-fired power capacity (MW)



### Case Boosting the development of modern energy economy through the ground-mounted photovoltaic system

Applying the most advanced technology of ground-based photovoltaic power generation system, Tianjin Panshan Power Generation Company developed a 10MW photovoltaic power generation project. The 150,000 m<sup>2</sup> project has a designed capacity of 10 MW and 24,960 high-power monocrystalline silicon photovoltaic cells. It is the first photovoltaic power generation project invested and constructed by Datang Power and the first photovoltaic power generation project put into full-capacity operation in Tianjin. The project will stimulate the development of modern energy economy in the local area.



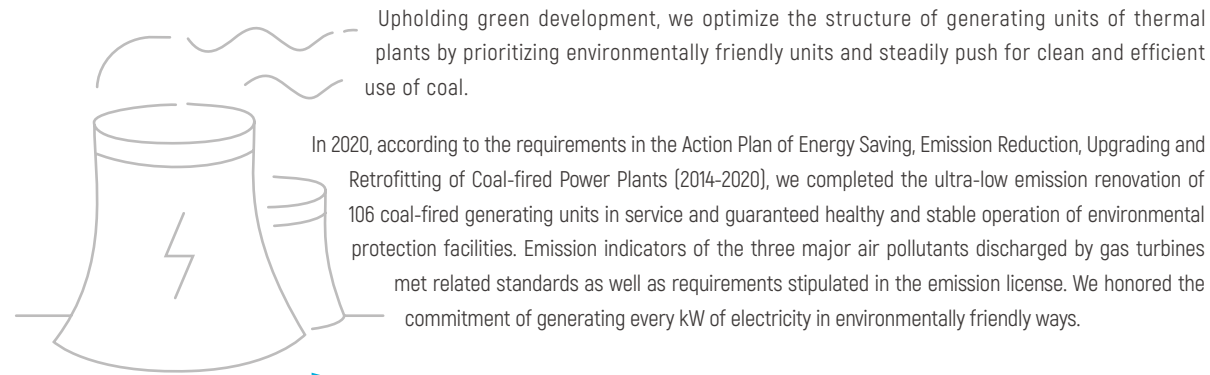
The photovoltaic power station built by Tianjin Panshan Power Generation Company



Hebei Shangyi Bulongwan Wind Power Project



## Low-carbon Hydropower Projects



### Case Adding "green power" to emission indicators

Inner Mongolia Tuoketuo Power Generation Company resolutely implemented energy saving and emission reduction requirements of the State and local governments and strengthened technological transformations oriented towards energy saving. It actively explored ways to reduce energy consumption, applied advanced technologies, such as the air-humid cooling unit combined efficiency improvement technology and the comprehensive upgrade and transformation of high-efficiency subcritical units, to add "green power" to emission indicators.

To reduce emissions of NO<sub>x</sub> and atmospheric dust, the company completed the ultra-low emission transformation and the desulfurization and denitrification transformation of generating units of the entire power plant, making multiple emission indicators industry-leading. At the same time, the company was the first in China to develop the "solar power and coal coupling technology," which is applied to reduce power consumption of the plant and realize the "complementation of solar power and coal," thus reducing fuel consumption and emissions.



A panorama of Inner Mongolia Tuoketuo Power Generation Company

## Safety Management

Work safety is the bottom line of business development. Always regarding safety and stability as the primary political task, we uphold the concept of safe development, strictly implement our work safety responsibility, and strengthen work safety management and control, so as to ensure work stability in the long run.

### Improving the work safety management system

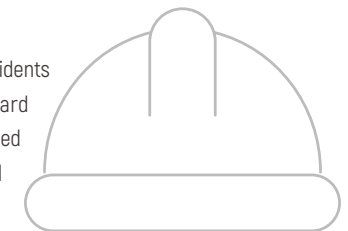
We have implemented work safety policies comprehensively, promoted the three-year work safety plan, and formulated the Safety Risk Management and Control Measures, the Key Points of Work Safety Work, the "Ten Nos" Work Safety Action Plan, and other management systems. We have earnestly implemented our major work safety responsibility, thus ensuring effective implementation of key measures and orderly progress of key tasks. Targeting hazards related to production, infrastructure, hazardous chemicals, environmental protection, transportation, and fire protection, we have made lists of hazards and countermeasures respectively to present the full picture of the work safety situation of the Company and enhance safety management.

### Case Enhancing the network security information protection system

Attaching great importance to network information security, Tianjin Panshan Power Generation Company conducted comprehensive and in-depth vulnerability scanning and penetration test of the network information system, improved perimeter security protection equipment, and promoted the construction of trusted computing projects, effectively strengthening the network security information protection system. In 2020, the Company successfully completed the HW2020 cyber attack and defense exercise of the Ministry of Public Security, in which the Company played the role of a "bullseye."

### Enhancing Employees' Safety Awareness

During the Work Safety Month campaign, focusing on the theme of "eliminating hazards and accidents and building a strong line of defense," we organized thematic lectures, safety training, hazard clearance, warning education, emergency drills, and other special activities, which strengthened the safety awareness and ability of employees, created a sound safety atmosphere, and promoted the positive energy of the safety culture. In 2020, during the Work Safety Month, we organized 428 lectures which attracted 20,358 attendants and 1,547 warning education activities which attracted 33,525 attendants. Among Datang Power's subsidiaries, Hebei Wangtan Power Generation Company was rated as National Safety Culture Demonstration Enterprises.





## Case Carrying out a drill on the pandemic contingency plan to enhance employees' emergency response capabilities

Hebei Zhangjiakou Power Plant carried out a drill on the pandemic contingency plan based on the real situation. Participants in the drill strictly followed requirements in the contingency plan, responded promptly, transmitted information accurately and in time, and adopted effective and feasible emergency measures, which further verified the scientificity, practicability, and operability of the contingency plan. The drill helped enhance employees' emergency response ability and comprehensive coordination ability in face of infectious disease emergencies, and ensured the normal production order during the pandemic period and the stable operation of generating units.



To carry out a drill on the pandemic contingency plan

## Sound Equipment Operation

We continue to carry out comprehensive management of equipment to save energy and reduce consumption, and attach great importance to equipment maintenance and the quality of technical upgrades to improve the overall conditions of all equipment. In 2020, nine units of Datang Power were named Class-A Reliable Generating Units, accounting for 64.3% of the total units (14 units) of China Datang Corporation.

2020 National Class-A Reliable Generating Units	
1000 MW Level	The No.4 Unit of Guangdong Chaozhou Power Generation Company
600 MW Level	The No.2 Unit of Guangdong Chaozhou Power Generation Company
	The No.2 Unit of Hebei Wangtan Power Generation Company
	The No.1 and No.3 Unit of Inner Mongolia Tuoketuo Power Generation Company
	The No.1 Unit of Jiangsu Lvsigang Power Generation Company
300 MW Level	The No.4 Unit of Tianjin Panshan Power Generation Company
	The No.7 Unit of Hebei Zhangjiakou Power Plant The No.10 Unit of Hebei Matou Power Plant



To carry out the maintenance of equipment.



To carry out safety inspections of equipment.



To carry out inspections of the DC system.



# Green

## Building a Beautiful China

Green, the color of nature, is a symbol of life and represents the hope for a better life. To pursue green development, Datang Power integrates the philosophy of ecological progress into business development and continues to enhance environmental management. We abide by requirements on low-carbon development, fully tap our potential in energy saving, and protect biodiversity, striving to contribute green power to the establishment of a new development pattern in China.

Standard coal consumption  
year-on-year decrease

1.4%



Total oil consumption year-on-year decrease

1.33%



# Tight Environmental Management

We continue to consolidate environmental management mechanisms, enhance the implementation of environmental supervision, and dispose of solid and hazardous wastes according to relevant rules, aiming to minimize the impacts of business operations on the environment.

## Clarifying Environmental Protection Responsibilities

We require our branches and subsidiaries to conduct regular self-inspections and send experts to inspect branches and subsidiaries to check their fulfillment of environmental protection responsibilities. Subsidiaries are required to formulate rectification plans and schedules and come up with preventive measures to consolidate the foundation of environmental protection management.

Coordinate, guide, or organize the investigation and handling of environmental incidents, investigate and analyze environmental incidents, and put forward requirements on preventing environmental incidents.

Supervise subsidiaries in guaranteeing efficient implementation of the environmental protection risk management and control mechanism and the hazard investigation and governance mechanism, and directly supervise the handling of major environmental protection issues.

Determine the goals for the Company's annual appraisal of environmental incidents, determine the appraisal indicators of environmental incidents of all subsidiaries, and supervise their analysis and implementation of the targets and offer opinions on the appraisal.

Enhance the  
implementation  
of environmental  
supervision

Organize environmental protection inspections, and hold to account those who fail to perform environmental protection duties adequately, violate laws, regulations, and institutional measures, and fail to complete special tasks.

Supervise the management of environmental impact appraisal in the early stage of project construction and guarantee simultaneous design, construction, and production; supervise acceptance inspections related to environmental and water protection.

## Standardizing the Disposal of Solid and Hazardous Wastes

In compliance with the newly revised *Solid Waste Pollution Prevention and Control Law of the People's Republic of China* and *National Inventory of Hazardous Wastes*, we strictly regulate the treatment of hazardous and non-hazardous waste produced during business operations, and try to minimize the negative impacts of waste of the Company on the environment.

### Solid waste and hazardous waste management measures

- Effectively identify main types of solid and hazardous wastes, including fly ash and plaster.
- Improve the supervision system, formulate solid waste management methods, and clarify responsibilities of waste generators during the whole process of waste treatment.
- Cooperate with third-party organizations for waste treatment; adopt treatment measures, such as classified storage and grinding; reuse waste in the production of cement, road construction, and water and soil conservation to realize waste recycling.
- Introduce innovative technologies, such as the key technology for producing multifunctional fly-ash ceramsite in single-cylinder rotary kiln and product application development, to improve waste utilization rate.

In 2020

Fly ash

31.5911 million tons

Production rate

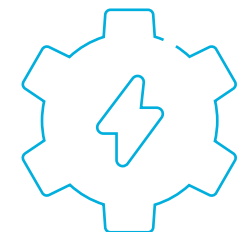
0.12 kg/KWh

Plaster

5.4953 million tons

Production rate

0.02 kg/KWh



### Case Hebei Tangshan Thermal Power Company strictly regulates the disposal of solid and hazardous wastes

Hebei Tangshan Thermal Power Company has continued to strengthen the management of solid and hazardous waste. The company has developed ledger management of waste oil warehouses and plans for waste oil leakage emergency drills and organized special drills. The management plan and monthly reports have been filed in the solid waste management system in time and hazardous waste has been transported in accordance with laws and regulations. For example, plaster is transported with dedicated dump trucks and fly ash is transported in closed tanker. In 2020, the company produced 50,000 tons of plaster and 400,000 tons of slag, which were all used comprehensively.



## Contribution to the Goal of Peaking Carbon Dioxide Emissions

In strict compliance with the *Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution* and other laws and regulations, we strictly follow emission standards. To effectively respond to climate change, we have gradually promoted the in-depth transformation of generating units to contribute to China's pledges of peaking carbon dioxide emission by 2030 and carbon neutrality by 2060.

In 2020, the total CO<sub>2</sub> emissions amounted to 232.978 million tons with 232.9 million tons of direct emissions and 78,000 tons of indirect emissions. CO<sub>2</sub> emission ratio reached 765.8g/KWh. The total SO<sub>2</sub>, NO<sub>x</sub>, and dust emissions amounted to 17,760 tons, 30,330 tons and 2,730 tons respectively.

**Improving carbon management.** Fully implementing our obligations in carbon emission control, we have conducted scientific research on low-carbon development strategies and established carbon asset and carbon trading management systems and regulations. All thermal power companies of Datang Power completed the submission of carbon emissions reports in 2019 and conducted third-party verifications in accordance with the national carbon emission verification requirements.

**Practicing carbon emission trading.** In regional pilots of carbon emission trading, we completed the carbon allowance compliance and settlement work in 2019, purchased 630,000 tons of pilot carbon allowances, and completed all carbon emission compliance work. We also actively participated in carbon trading and completed 610,000 tons of SWAP transactions of carbon emissions, gaining RMB 1.32 million in revenue.



The two 350MW supercritical cogeneration units of Hebei Tangshan Beijiao Thermal Power Company were completed and put into operation on May 15, 2020 to undertake the mission of heat supply for nearly a quarter residents in urban Tangshan. The project is essential to the transformation of "Replacing Small Capacity Units with Large Capacity Ones" for replacing backward capacities and replaces 75 scattered coal-fired small boilers in Tangshan City. Each year, the project can reduce the consumption of natural coal by 175,000 tons, SO<sub>2</sub> emissions by 2,234.5 tons, NO<sub>x</sub> emissions by 1,506.7 tons, and smoke and dust emissions by 1,757.9 tons of and dust each year, thus effectively improving air quality in Tangshan City.

## Energy Saving and Consumption Reduction

Determined to build a conservation-oriented enterprise, we use water, oil, and other resources efficiently, continuously enhance energy consumption management, and promote sustainable corporate development.

**Efficient use of water resources.** We actively promote advanced water-saving technologies and equipment, in a bid to achieve 100% reuse of water resources and create a resource-saving enterprise. The Company improves the water source interruption contingency plan annually and conducts a test of the contingency plan every five years in line with relevant industry standards to find out weaknesses in the utilization of water resources in a timely manner.

Applying water-saving technologies to newly commissioned generating units. Hebei Yuzhou Energy Company and Inner Mongolia Xilinhote Power Generation Company introduced air-cooled generating units, which can reduce water consumption by **70%** compared with water-cooled units.

Largely increasing the utilization rate of reclaimed water. Hebei Qingyuan Thermal Power Company achieved **100%** utilization of reclaimed water from power generation and heating, reducing water consumption by **588,000** tons year on year.

Cascade recycling of industrial wastewater. Hebei Zhangjiakou Power Plant recycled **6.4988** million tons of wastewater by applying advanced wastewater recycling technologies, guaranteeing a water reuse rate of **98.57%**.

**Strengthening energy management.** In compliance with relevant regulations and rules, such as *Regulations on Energy Conservation of Datang Power* and the *Management Practices for Energy Conservation and Emission Reduction of Datang Power*, we keep enhancing energy consumption diagnosis and management.

Indicator	Unit	2018	2019	2020
Total water consumption	million tons	190.4429	187.328	206.5669
Water consumption per kW of power generated	kg	0.88	0.82	0.86
Total oil consumption	ton	11,300	7,500	7,400
Oil consumption per GWh of power generated	ton	520	329	306
Comprehensive power consumption rate	%	5.56	5.61	5.52
Standard coal consumption	million ton	64.861	64.8311	63.9204
Coal consumption per KWh of power generated	g	299.71	296.23	293.17



In 2020

Thermal Power Units won awards in the Power Industry Energy Efficiency Benchmarking and Competition

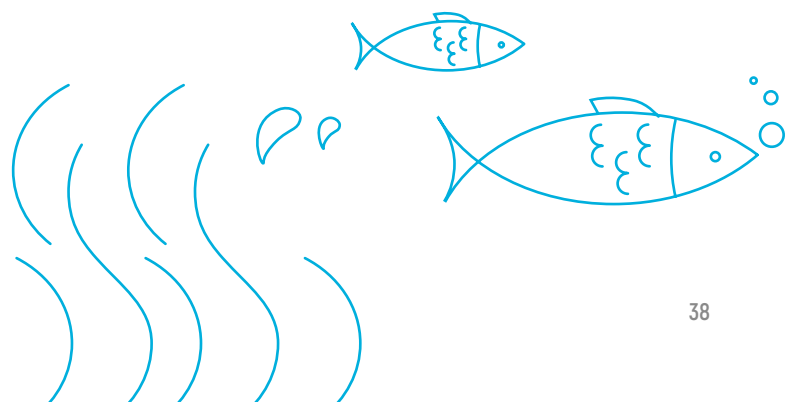
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## Biodiversity Conservation

Biodiversity is the basis for human survival and sustainable development. We actively identify possible impacts of power production on biodiversity, especially impacts of the construction of hydropower stations on the aquatic ecology, and carry out diverse biodiversity conservation activities to contribute to the symbiosis between corporate development and environmental protection.



### Case Chongqing Branch takes measures to protect biodiversity

**Releasing fish fry.** Chongqing Branch released a total of 480,000 fish fry of *myxocyprinus asiaticus*, *sinilabeo rendahli*, and other fish species, effectively protecting the aquatic ecology and fulfilling the social responsibility of environmental protection.

**Promoting the renovation of facilities for ecological release and domestic sewage treatment.** Chongqing Branch completed the renovation of ecological release facilities at Yujiankou Power Station and Yajiang Power Station, as well as the zero-discharge transformation of Pengshui Power Station and Haokou Power Station, minimizing the impacts of sewage on the aquatic ecology.

**Collecting garbage in rivers.** Throughout the past year, Chongqing Branch cleared about 1,800 m<sup>3</sup> of garbage in waters around Pengshui Hydropower Station and 105 tons of garbage in waters around Haokou Hydropower Station, creating a good ecological habitat for aquatic organisms.

**Creating a fish collection and transportation system.** Chongqing Wulong Hydropower Company, a subsidiary of Chongqing Branch, along with Pengshui Hydropower Station built a fish collection and transportation system. The system operated for 124 days in 2020, and collected 1,041 fish of 20 species in total, including *tachysurus fulvidraco* and *opsariichthys bidens*, effectively meeting the needs for fish to cross the dam.



# Opening-up

## Deepening Multi-party Cooperation

Opening-up is the path towards a better future for enterprises. Datang Power actively responds to the requirement for deepening the reform of the power market by participating in power market trading, striving to build a good business ecosystem, realize mutual benefits and trust with partners, and create a better future through cooperation with all stakeholders.



The total amount of electricity  
in the power market year  
on year increase

**17.02** %

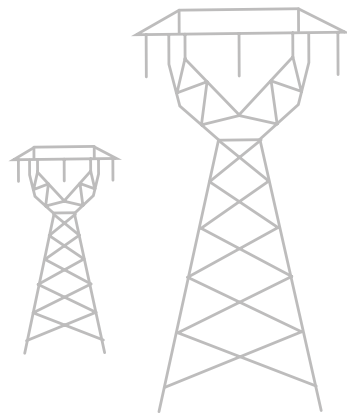
The total amount of electricity transactions  
conducted in the power market reached

**150,588** GWh



## Further Exploration of Power Market

As China introduces a series of measures, such as the *Opinions on Deepening the Work on Construction of Electricity Spot Market Pilots*, the top-level design of the power market has been further improved and the marketization of the power sector has accelerated. To cope with challenges and opportunities brought about by the power market reform, we take the initiative to make changes and gradually enhance our capabilities to further consolidate our presence in the power market.



In 2020

The total amount of electricity transactions conducted in the power market reached

**150,588** GWh, accounting for **59.68** % of the total.

### Carrying out research on the power market.

Datang Power has studied and developed strategies targeting the spot market and learn from advanced experiences. We arranged for employees to get trained in Zhejiang on spot market operation and spot market trading policies, so as to be prepared for the spot market in the Beijing-Tianjin-Hebei region.

### Innovating in the customer service model.

An energy marketing subsidiary of Datang Power has provided its client, Baidu, with the service of "transforming one-part tariff to two-part tariff of electricity for industrial and commercial use," which helps save RMB 3.5 million of electricity cost for the client per year and greatly enhances customer stickiness.

### Engaging in reforms of the power market.

We have set up a research group to offer suggestions on improving the "1+8" power spot market rules based on the principle of establishing an open and transparent power spot market. Besides, we have actively participated in joint-stock system restructuring of power trading centers in Beijing, Hebei, Hebei, Zhejiang, and Jiangxi to enhance corporate influence.

### Enhancing training for marketing staff.

We carried out more than ten online marketing training programs, organized the first training class for electricity spot pricing staff, hired senior professionals to lecture on electricity trading on spot markets, and invited experts to guide related simulation exercises, thus effectively improving the marketing capabilities of the marketing staff.



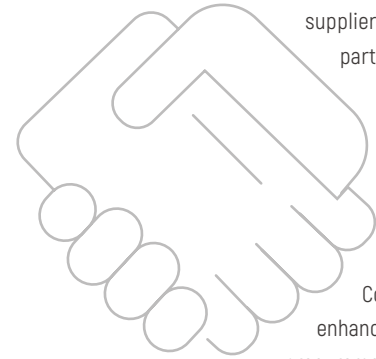
The first training class for electricity spot pricing staff

### Case Chongqing Branch engages in the development of local power market system

As a responsible central SOE, Chongqing Branch actively cooperates with the local government in the establishment of a power market system in Chongqing. First, the company assisted Pengshui Hydropower Development Limited Company in becoming a member of the Chongqing Electric Power Market Management Committee, and arranged for its own marketing specialists to enter the committee's list of expert members. Second, the company actively cooperated with the Chongqing Municipal Commission of Economy and Information Technology, as well as the power grid company, in carrying out policy research and formulation related to the construction of the power market. It participated in the formulation of relevant measures to regulate electricity market transactions, involving power grid peak shaving auxiliary services, time-specific signing of direct electricity trading in the medium and long term, etc. Furthermore, Chongqing Branch has put forward reasonable suggestions centering around the role of purchased power in Chongqing power grid peak shaving and apportionment, protection of the reasonable interests of generating units inside Chongqing power grid, the division of contract periods, etc. In 2020, Chongqing Branch signed a total market power of 8.519 TWh, of which hydropower reached 7.602 TWh, surpassing hydropower installed capacity by 3.58%.



# Win-win Partnership



In pursuit of opening-up and win-win, we actively communicate with the government, enterprises, suppliers, and other stakeholders, and commit ourselves to building good, fair, and transparent partnerships for a harmonious business environment.

**Standardizing procurement management.** In terms of procurement management, we have formulated the *Regulations and Requirements on Supervision Work* to further clarify the scope of procurement supervision and the principles of spot checks. We also carry out the benchmarking of procurement and material management to further standardize the procurement process. In terms of fuel procurement and the selection of suppliers, the Company fully considers suppliers' impacts on the environment and society, and earnestly enhances suppliers' sense of responsibility. Moreover, we purchase market coal through sunshine procurement platform, which ensures open, fair, and equal procurement.

	Total	Central China	East China	South China	North China	North east China	South west China
Number of fuel suppliers	621	26	135	25	223	203	9

**Carrying out multi-party cooperation.** Giving full play to our own strengths, we cooperate with the government, enterprises, and other external stakeholders extensively to create a good business environment and a win-win situation with joint efforts.

- Yuneng Group signed a strategic cooperation agreement with the Management Committee of Chongqing Tongliang High-tech Industrial Development Zone and Tongliang Power Supply Company to devote to the reduction of energy costs, and the realization of clean energy consumption, mutual benefit, and win-win.
- Fujian Branch and State Grid Fujian Electric Power Co., Ltd. signed a strategic cooperation agreement for the two parties to cooperate in the development and consumption of offshore wind power resources as well as in the fields of new model technology and economic demonstration.



Hebei Tangshan Thermal Power Co., Ltd. creates the Urban Living Room Initiative jointly with the local government. It marks a brand-new journey of environmental protection management of the company and helps facilitate government-enterprise cooperation.





# Sharing

## Creating a Harmonious Society

Employees are valuable assets for an enterprise. Datang Power grows with employees and develops with society. We listen to employees' voices, helps them realize career dreams, and engage in public welfare cause. We strive to create a bright future with concerted efforts, build a strong defense line for the battle against the pandemic, and work with a great sense of responsibility.

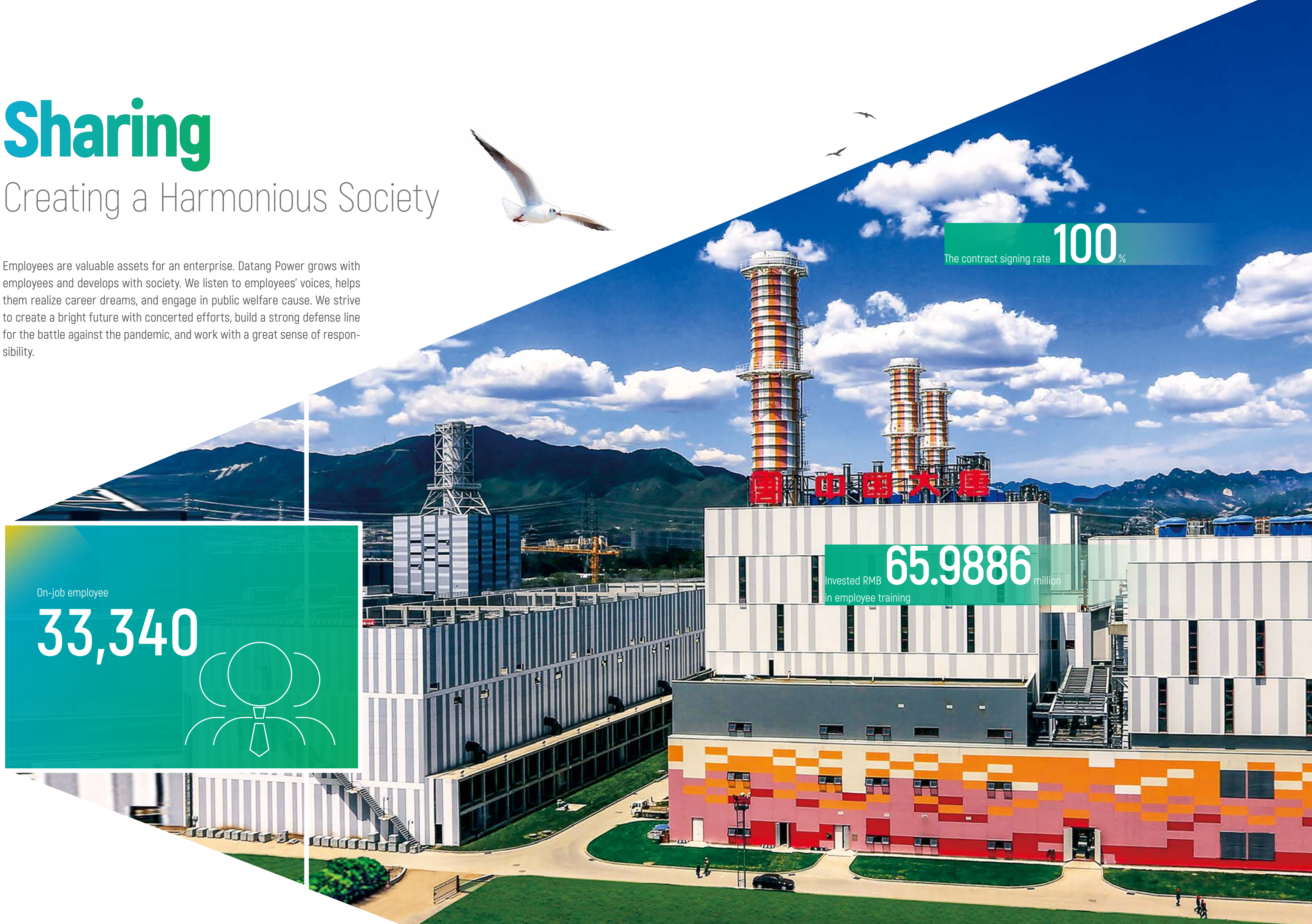
On-job employee

33,340



The contract signing rate **100**%

Invested RMB **65.9886** million  
in employee training





# Facilitating Employee Growth

People-oriented, we listen to the voices of the people, collect public opinions actively, and help the people solve problems. We also help employees realize their personal value and contribute to the creation of a harmonious homeland, so that our employees can feel a great sense of gain, happiness, and security.

## Protecting Employees' Basic Rights and Interests

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 the *Work Safety Law of the People's Republic of China*, we sign labor contracts according to laws and have improved our remuneration and benefits based on the principle of equal employment. We reasonably arrange employees' working hours, ensure that employees enjoy public holidays and annual leave, and prohibit any form of forced labor. We care for the physical and mental health of employees, listen to employees' expectations and demands, and protect the legitimate rights and interests of employees. In 2020, we had 33,340 employees in total, with 6,044 women employees and 1,675 ethnic minority employees. The contract signing rate, the trade union membership rate, and the coverage of employee health examinations of the Company all reached 100%, and the turnover rate was 1.58%.



Employment management

We uphold the employment principle of offering equal opportunities to female and male employees and employees from different national and racial groups, completely eradicate child labor and forced labor, strictly prohibit all forms of discrimination, and optimize the recruitment plan to provide fresh graduates with abundant job opportunities.



Remuneration and benefits

We provide competitive remuneration, continuously improve the performance appraisal and incentive system, and have established a reasonable and universally-beneficial salary distribution mechanism that guarantees better pay for better work. We also pay for employees' social insurance and housing provident fund on time and in full and buy supplemental health insurances for employees to ensure better employee benefits.



Democratic management

To continuously standardize the democratic management system, we have revised such democratic management systems as the *Work System for Employee Representatives to Participate in Daily Democratic Management* and the *Administrative Measures for Proposals of the Employees' Congress*, and established a three-tier employee service system composed of employee service centers, employee service stations, and employee care stations. In addition, we unblock democratic management channels and protect employees' rights to know and supervise by implementing proposals and rational suggestions of the employees' congress and organizing inspections by employee representatives. In 2020, we collected 431 proposals from employee representatives, and 652 rationalization proposals for "I offer a strategy for caring for employees".



Health and safety

Valuing the physical and mental health of employees, we have optimized the employee health and safety management system and organize regular health checks for the entire staff and physical examinations for specific positions. We hire physicians and experts to give health lectures, and have launched the employee psychological consultation room to provide counseling services for employees to popularize psychological knowledge effectively. To improve the work environment, we offer employees protective supplies, emergency rescue facilities, and pandemic prevention materials.



The Employee Health Free Diagnosis Campaign - Promoting the Construction of a Happy Datang



The psychological counseling room

## Helping Career Development

We have established a sound talent management mechanism and built a high-quality professional team to guarantee a strong workforce the support the Company's sustainable development. Through various training programs, we realized "three 100%" in new employee training, namely 100% signing of mentoring agreements, 100% implementation of training plans, and 100% implementation of assessment and evaluation, which helped promote the mutual growth of new employees and their mentors. We have actively coped with the impact of the pandemic, formulating training plans to combat it during the special period. We have made full use of the advantages of network resources, accelerated the construction and improvement of the implementation system of "distance training + network examination," and vigorously launched distance training in the form of video, audio and network training. We have worked with universities to design special training programs, promoted free and open courses, and carried out in-depth professional knowledge and skills competitions to promote the continued emergence of all types of talent. In 2020, 65.9886 million yuan was invested in staff training, with an average training time of 89.6 hours, 11,765 training projects and 660,125 participants, and won the first place in the professional final group of group companies.



In 2020

Participants of training on corporate management and professional skill

181,438

Participants of production skill training

465,226

Participants of other training programs

13,461

### Case Training professionals through an "order-based" model

To further strengthen talent training and introduction, the New Energy Division of Zhangjiakou Power Plant and university jointly organized the "order-based" training classes. The two sides strengthened cooperation in teaching, scientific research, and practical training, and built a cooperation platform for learning from each other's strengths, resource sharing, and coordinated development. They combined talent training with the needs of the companies and added new energy professional knowledge courses, aiming to improve trainees' practical ability and promote the realization of an all-win situation for the university, the two companies, and trainees.





We have built a multi-channel growth mechanism for employees and formulated the *Guiding Opinions on the Implementation of Multi-channel Career Development Mechanism for Employees by Subsidiaries of Datang Power* for the creation of a professional, differentiated, hierarchical, and standardized growth channel system. By promoting the linking between administrative positions and ranks, and between ranks and salaries, we strive to further expand the development space of employees. As we continue to enhance talent evaluation and expert management, we have managed to create more favorable conditions for excellent talents to stand out. In 2020, a total of 237 employees realized promotions through multiple channels, including 44 employees at the director-assistant rank and 150 employees of senior positions.

In 2020

Technical Experts in  
Power Industry

2

Practitioners of the Power  
Industry with Outstanding Skills

8

Corporation-level  
Technical Experts

15

Corporation-level Excellent  
Skilled Employees

27

2020 Datang Power Model  
Workers

5

Corporation-level centralized  
control duty worker  
professional final

The first place team



## Caring for Employees' Life

Being people-oriented, we work to meet employees' urgent needs and help them tackle difficulties. For employees needing assistance, we actively have interviews with them and visit them to show the Company's care. Besides, we have established files for needy employees and achieved targeted assistance. We also care for female employees and have built nursery rooms to meet their specific needs. In 2020, we served employees for over 35,000 times, invested more than RMB 4.6 million in the employee assistance fund, and helped solve 575 difficulties and problems of employees in need.





## Contributing to Public Welfare

We are enthusiastic about public welfare undertakings, encourage employees to actively participate in volunteer activities, diligently contribute to the society, and help the community construction and development. In 2020, Inner Mongolia Tuoketuo Power Generation Company has organized donation activities for students, and Beijing Gaojing Thermal Power Plant has organized "Warm Winter" charity donation activities.



A tug-of-war competition for employees for celebration of the National Day

The "March Towards 2022 and Support Beijing 2022" hiking activity



Single employees at the themed party on the Qixi Festival (Chinese Valentine's Day)



A rope skipping activity to celebrate the International Workers' Day



A blood drive campaign



Chongqing Wulong Hydropower Company organizes the Datang Morning Star Classroom campaign at Wulong Huangcao Hope Primary School.



Hebei Xiahuayuan Power Plant organizes the Datang Morning Star Classroom campaign.



# Strengthening Pandemic Response

To win the battle against the pandemic, we have implemented strict measures to ensure that our pandemic containment work is under control. Meanwhile, we guarantee smooth production and operation and go all out to meet the power and heat demands of enterprises that had resumed production and work.

## Building a Strong Defense Line

Taking the protection of employees' right to health and life as our primary responsibility, we have earnestly prevented the coronavirus from re-entering the country to cause a new pandemic and comprehensively strengthened disinfection of key areas, such as workshops, canteens, and staff dormitories. We have released the *Emergency Notice on Pandemic Prevention and Control*, conducted tests and adopted isolation methods whenever necessary, and resolutely implemented prevention and control measures, including information reporting, home quarantine, closed-off management, nucleic acid testing, and so on. A pandemic containment fund was set up to purchase pandemic prevention materials through multiple channels and disinfectants, masks, thermometers and other protective supplies for employees, contributing to the target of zero deaths of confirmed cases and zero infections of medical staff.

Checking body temperatures of drivers.



A donation activity for supporting the fight against the pandemic.



Distribution of antibacterial and disinfectant hand sanitizers among employees and urges employees to improve personal hygiene.



Carried out a drill on pandemic prevention and control.



Hebei Tangshan Thermal Power Co., Ltd. inspects the fire-fighting facilities in the plant and the implementation of safety measures at the production site.

## Boosting the Resumption of Work and Production

We have ensured the resumption of work and production while implementing stringent pandemic containment measures, so as to ensure the stable supply of heat and power, stable production and operation, as well as personnel stability. We have implemented the work shift system led by leaders, the dual on-duty system, and the work system where leaders can maintain direct contact with staff members taking up specific operating posts to ensure that the Company's operations are not affected by the pandemic. Additionally, we have comprehensively strengthened the deployment of production staff, enhanced the responsibility system for work safety, and carried out relevant risk control measures during the special period to guarantee smooth resumption of work and production.



Employees stick to their posts during the pandemic.



Supporting the first line of anti-pandemic prevention and control.

### Case Ensuring power supply during the pandemic

Hebei Baoding Heat Supply Company set up an emergency response team to transport high-quality steam to China Lucky Group, the only medical X-ray film manufacturer in China. It ensured the rapid resumption of work and improved production capacity of China Lucky Group, contributing to the continuous delivery of medical resources to the front line of pandemic control.



# Outlook 2021

The year 2021 marks the start of the 14th Five-year Plan, and it is also a year of great significance for the Company. Entering a new stage of development, we will uphold the new development concepts and deeply assimilate into the new development pattern. To promote high-quality development, we will keep green and low-carbon transformation as the core of development. Driven by the reform and innovation and focusing on the six goals of making new achievements in economic development, taking new steps in reform and opening-up, seeking new improvement of social civilization, pursuing new progress in ecological protection, bringing people's livelihood to a new level, and making new improvement in the efficiency of national governance, we will persist in and make all-out efforts in the eight aspects and build Datang Power into a reputable first-class public company with excellent corporate governance and outstanding performance.

## Driving High-quality Development

- Developing a personnel system that can cultivate talents, gather talents, care about talents, and benefit talents, and establishing expert teams and R&D teams
- Promoting the establishment of a comprehensive smart energy management platform and accelerating smart production and management
- Accelerating the R&D and application of technologies for new businesses as well as the application of new technologies and equipment

## Creating Values with Concerted Efforts

- Vigorously promoting new energy base projects and actively exploring models for cooperation in new energy development
- Consolidating the foundation for work safety, focusing on building a holistic security architecture, and improving the mechanism for risk classification and hazard management

## Building a Beautiful China

- Carrying out in-depth research to contribute to the goal of peaking carbon dioxide emissions by 2030 and carbon neutrality by 2060, and promoting the integrated transmission of electric power, construction of bases in Zhangjiakou and Chengde, upgrade of coal-to-electricity projects.
- Increasing efforts in energy conservation and emission reduction and protecting the environment

## Deepening Multi-party Cooperation

- Keeping abreast of changes in the power market and innovating in the management system that adapts to the market

## Building a Harmonious Society

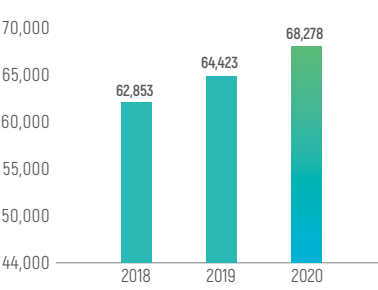
- Consolidating democratic management, and creating a warm home that can unite people, guide employees, and serve the masses
- Attaching great importance to pandemic containment and keeping implementing regular pandemic prevention and control measures



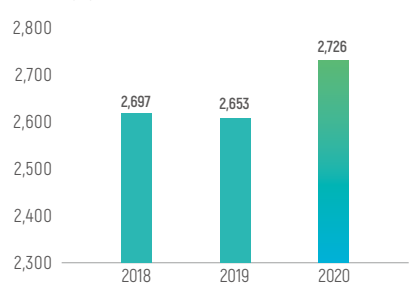
# Key Performance Indicators

## Economic

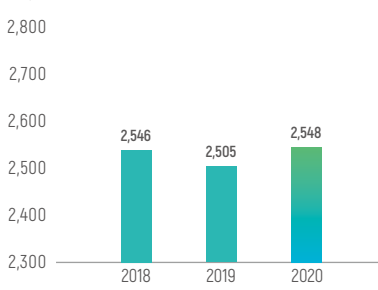
Total installed capacity (MW)



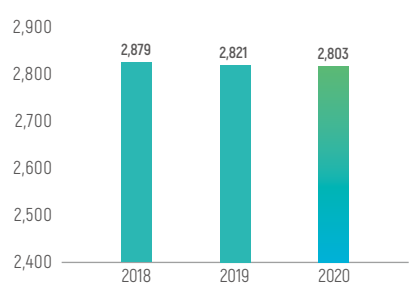
Electricity generation (100 million KWh)



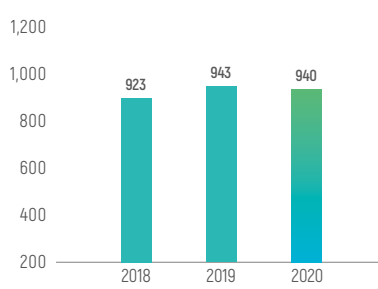
On-grid power (100 million KWh)



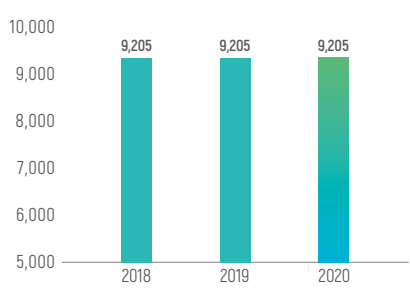
Total assets (100 million Yuan)



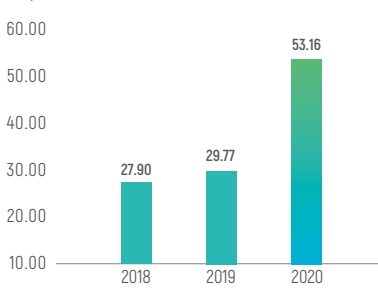
Revenue (100 million Yuan)



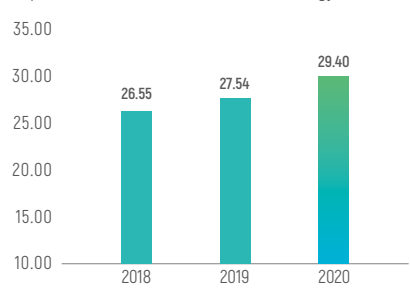
Installed hydropower capacity (MW)



Net profit (100 million Yuan)

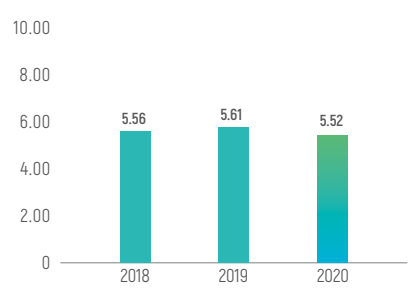


Proportion of clean and renewable energy (%)

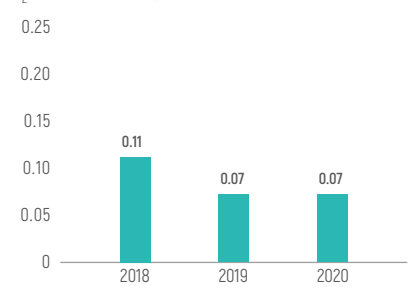


## Environmental

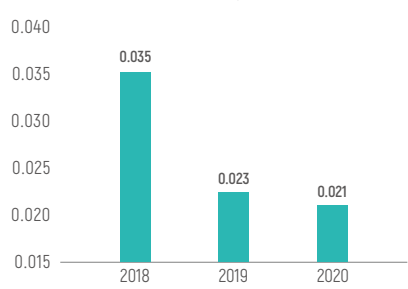
Comprehensive power consumption rate (%)



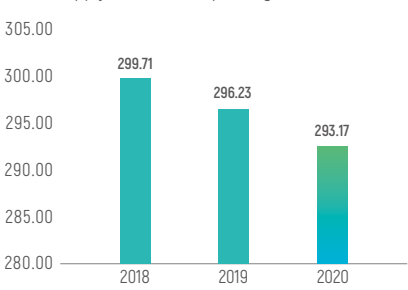
SO<sub>2</sub> emission rate (g/KWh)



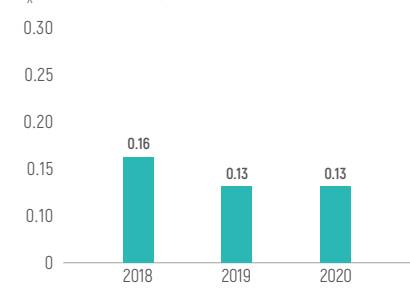
Waste water emission rate (kg/KWh)



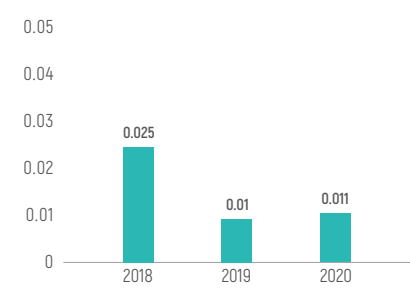
Power supply coal consumption (g of standard coal/KWh)



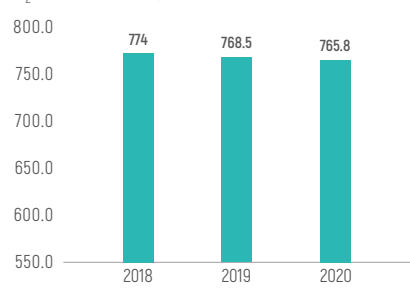
NO<sub>x</sub> emission rate (g/KWh)



Dust emission rate (g/KWh)

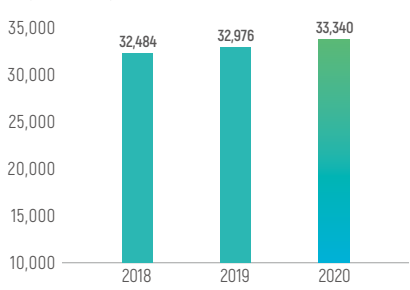


CO<sub>2</sub> emission rate (g/KWh)

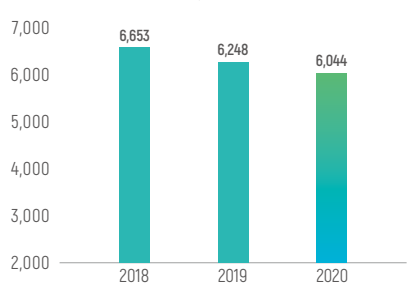


## Social

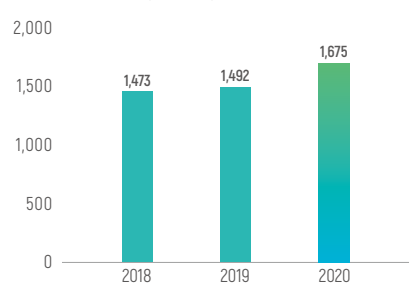
On-job employee (People)



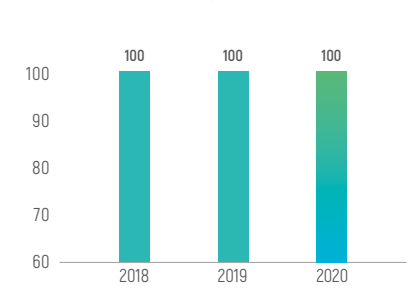
Number of female employee (People)



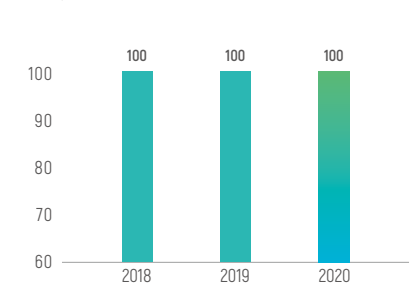
Number of minority employee (People)



Membership rate of employee (%)



Coverage of collective contract (%)





# HKEX ESG Reporting Guide Index

Level	Indicators	Disclosure	Report page	Notes (explanations for partial disclosures and non-disclosures)
A. Environment				
A1: Emissions	General Disclosure	√	P34-36	
	A1.1	√	P36、P58-59	
	A1.2	√	P36	
	A1.3	√	P35-36	
	A1.4	√	P35-36	
	A1.5	√	P28、P36	
	A1.6	√	P35	
A2 : Use of Resources	General Disclosure	√	P37	
	A2.1	√	P37	
	A2.2	√	P37	
	A2.3	√	P37	
	A2.4			In 2020, Datang Power did not encounter problems with sourcing water that is fit for daily business operations
	A2.5			Power products do not need to consider packaging materials
A3: The Environmental and Natural Resources	General Disclosure	√	P34-39	
	A3.1	√	P34-39	
A4: Climate Change	General Disclosure	√	P36	
	A4.1	√	P24-25、P28、P36	
B. Society				
B1 : Employment	General Disclosure	√	P48	
	B1.1	√	P48	
	B1.2	√	P48	
B2: Health and Safety	General Disclosure	√	P29、P48	
	B2.1			
	B2.2			
	B2.3	√	P48	

Level	Indicators	Disclosure	Report page	Notes (explanations for partial disclosures and non-disclosures)
B. Society				
B3 : Development And Training	General Disclosure	√	P49	
	B3.1			
	B3.2	√	P49	
B4: Labor Standard	General Disclosure	√	P48	
	B4.1	√	P48	
	B4.2			No violation
B5: Supply Chain Management	General Disclosure	√	P44	
	B5.1	√	P44	
	B5.2	√	P44	
	B5.3	√	P44	
	B5.4			
B6 : Product Responsibility	General Disclosure	√	P29-31	
	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 recall procedure
	B6.5			
B7 : Anti-corruption	General Disclosure	√	P8	
	B7.1	√	P8	
	B7.2	√	P8	
	B7.3	√	P8	
B8: Community Investment	General Disclosure	√	P10	
	B8.1	√	P9 -12、P53-55	
	B8.2	√	P9	



Others	Description
The Paperless	As ESG information becomes more and more important, Datang Power will inform its shareholders after the ESG Report is published on the Stock Exchange website and the Company website.
Review	Independent review has not been sought
Release Time	Datang Power Social Responsibility Report 2020 (ESG Report) will be published by the end of March 2021.
Board Monitoring	As a decision-making body, the board of directors of Datang Power carries out the top-level design and effectiveness review of ESG management of the company, and is responsible for the review of ESG reports.
Report Disclosure Principles	<p><b>Importance:</b> by soliciting management proposals, with the domestic and international relevant social responsibility standard for standard, organize internal and external experts to conduct analysis, to get information from day-to-day business, such as a variety of ways, continues to collect social responsibility substantive issues, and from "the importance of Datang Power " and "social concerns" two dimension filtering substantive issues.</p> <p><b>Quantitative principle:</b> disclose the company's performance for three consecutive years in the form of a performance table, and disclose quantitative and directional goals in terms of water resource utilization and waste discharge.</p> <p><b>Principle of Balance:</b> objectively disclose Datang Power 2020's environmental, social and corporate governance practices and performance.</p> <p><b>Principle of consistency:</b> use the same statistical methods as in previous years for index statistics and disclosure.</p>
Report Boundary	The report covers the whole Datang Power, covering power generation, coal, transportation, circular economy, electricity sales and other fields.

# Feedback

## Dear Readers

Thank you for taking time to read Datang Power's 2020 Social Responsibility Report (Environmental, Social and Governance Report). 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

☐ Government/regulator Technical college

☐ Supplier

☐ Media

☐ Social organization

☐ Others

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**Postcode:** 100033  
**Fax:** 010-88008222



# About This Report

Dear readers, this is Datang Power’s 13th CSR Report. The Report discloses our philosophy, strategies, actions progress and our 2021 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 compiled 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 GSSB.

## Reporting Period

The Report covers the period from 1 January 2020 to 31 December 2020, Part of the contents may exceed the abovementioned time span.

## Reporting Cycle

This is the 13th CSR Report published by Datang Power.

## Scope of the Report

The Report covers all relevant information of the Company,please refer to P6 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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Email: dtgjzys@163.com

 This report is printed on environmental-friendly paper.