

北京京城機電股份有限公司 Beijing Jingcheng Machinery Electric Company Limited

(a joint stock company incorporated in the People's Republic of China with limited liability) (H Share Stock Code: 0187; A Share Stock Code: 600860)



Environmental, Social and Governance Report 2020





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ABOUT THIS REPORT





1. Report Description

This report is the Environmental, Social and Governance Report for the year 2020 issued by Beijing Jingcheng Machinery Electric Company Limited (北京京城機電股 份有限公司) ("Beijing Jingcheng", or the "Company"). The board of directors (the "Board") and all directors of the Company guarantee that there are no false records, misleading statements or material omissions in the contents of this report, and assume individual and joint responsibility for the authenticity, accuracy and completeness of its contents, and have reviewed and approved this report.

2. Introduction

Beijing Jingcheng is listed on the Shanghai Stock Exchange (A shares) and The Stock Exchange of Hong Kong Limited (H shares) with a registered capital of RMB485,000,000. Its subsidiaries include Beijing Tianhai Industry Co., Ltd. (北京天海工業有限公司) ("Tianhai Industry") and Jingcheng Holding (Hong Kong) Company Limited (京城控股(香港)有限公 司) ("Jingcheng HK"). The Company is committed to becoming a leading enterprise engaged in the manufacturing of storage and transportation equipment and provision of services for both industrial gas in the world and energy gas in China.

ABOUT THIS REPORT



This report has been prepared in accordance with the Environmental, Social and Governance Reporting Guide (the "ESG Reporting Guide") set out in the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited (the "Stock Exchange"). The Board confirms that it has reviewed and approved this report. Beijing Jingcheng has always regarded sustainable development as its long-term direction. This report aims to present stakeholders with a description of the key issues and the management approach in respect to environmental, social and governance ("ESG") and the Company's sustainable development, its compliance with the listing rules of both stock exchanges, and the relevant policies, regulations in the environmental, social and governance aspects of its business operations in the context of achieving sustainable development.

3. Reporting Period and Scope

This report covers the 2020 financial year from 1 January 2020 to 31 December 2020.

The scope of this report includes but not limited to the Company and its subsidiaries, being:

- (1) Beijing Jingcheng
- (2) Tianhai Industry
- (3) Tianjin Tianhai High Pressure Container Co., Ltd. (天津天海高壓容器有限責任公司) ("Tianjin Tianhai")
- (4) Kuancheng Tianhai High Pressure Container Co., Ltd. (寬城天海高壓容器有限公司) ("Kuancheng Tianhai")
- (5) Shanghai Tianhai Composite Cylinders Co., Ltd. (上海天海複合氣瓶有限公司) ("Shanghai Tianhai")
- (6) Beijing Tianhai Cryogenic Equipment Co., Ltd. (北 京天海低溫設備有限公司) ("Tianhai Cryogenic")

ABOUT THIS REPORT

- (7) Beijing Minghui Tianhai Gas Storage Equipment Sales Co., Ltd. (北京明輝天海氣體儲運裝備銷售 有限公司) ("Minghui Tianhai")
- (8) Beijing Tianhai Hydrogen Energy Equipment Co., Ltd. (北京天海氫能裝備有限公司) ("Tianhai Hydrogen Energy")
- (9) BTIC America Corporation (天海美洲公司) ("BAC")
- (10) Jingcheng HK

4. Feedback to this Report

The interests and needs of different stakeholders have been taken into consideration to the fullest extent possible while preparing this report. The Company will continue to improve the content of future reports. For enquiries and opinions, please contact us at:

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MESSAGE FROM THE GENERAL MANAGER

Dear stakeholders:

We are pleased to present our 2020 Environmental, Social and Governance Report for the year ended 31 December 2020. We regard this report as one of the most important, direct and effective communication channels between the Company and its investors and stakeholders, and use this channel to deliver our ongoing plans and initiatives to our stakeholders every year.

2020 was a year of uniting and offering helping hands to others in the country. It was a year for building a moderately prosperous society in all respects and the closing year of the "Thirteenth Five-Year Plan". It was also the foundation year for ensuring a smooth start of the "Fourteenth Five-Year Plan". Affected by the epidemic, the global economy has suffered severely. Against the background of epidemic and the increasing tension of China-US trade relations, the Company adhered to the corporate spirit of "integrity, dedication, learning, innovation and aiming at first-class", implemented the business concept of "compliance with the law, ensuring safety and health, and green operation" and continued to promote sustainable development strategy while focusing on the development of its principal business without distraction. The Company took structural adjustment as the main line, accurately grasping the cutting-edge trends of the industry such as new business forms, new models and new technologies, focused on technological innovation, seized market opportunities, accelerated business transformation and upgrading, as well as improved its operational efficiency. The Company has made hard-won achievement especially under the influence of the epidemic.

During the year, the Company has further accelerated the establishment of a high-grade high precision and advanced industrial structure, closely followed the manufacturing strategies, insisted on independent innovation, intensified reform and adjustment, stabilized the development foundation in the adjustment, promoted industrial transformation and upgrading, and improved the development quality of the existing main business, fully implementing various epidemic prevention measures,



MESSAGE FROM THE GENERAL MANAGER

and completed the mission targets of the four "tacky battles" with high quality. As of the end of the reporting period, the Company recorded an operating income of RMB108,829,650,000. Operating income decreased by RMB10,755,060,000 as compared to the same period of last year, representing a decrease of 8.99%. While focusing on the development of our main business, we significantly improved various emissions, energy saving and environmental protection indicators, gradually improved the ESG management level, actively assumed social responsibilities and made better allocation of resources and talents, so as to comprehensively create "a global leading industrial gas and a domestic leading energy gas storage and transportation equipment manufacturing and service enterprise".

In order to keep up with the strategy of making China dominate in high-tech manufacturing, the Company adhered to indigenous innovation, bravely climbed the peak in technology, accelerated our business transformation and upgrading, promoted the launch of major scientific research projects, regularly increased funds to support the research and development of new products and new technologies, and initiated mergers and acquisitions to expand our smart production line. The Company actively responded to the country's call for carbon balance, continued to lead its peers in reducing emissions, contributed to the building of a beautiful China, and became a staunch follower and practitioner of national strategies and social responsibilities.

In 2020, the Company made numerous efforts to maintain operational effectiveness under the influence of the epidemic, and while developing its principal business, the Company also took into account its own environmental impact, obligations to society and responsibilities to stakeholders:

1. Focusing on high-quality development and assisting China's manufacturing industry

The Company is customer-oriented, and therefore invests a huge amount of resources in gas storage and transportation industry, strives to solve the pain point of the industry, is committed to promoting environmental friendly low-carbon new energy storage and transportation, and has realized the new leap of the quality development. In 2020, the Company successfully completed the non-public issuance of A shares, of which, the proceeds raised were used for the construction of the intelligent numerical control production line of plastic inner-tank compound gas cylinder ("Type IV cylinder") and the research and development of hydrogen energy products etc.. The Company devoted vigorously to the hydrogen energy industry, and fully established the leading position of "the world's leading industrial gas and domestic leading energy gas storage and transportation



equipment manufacturing and service enterprise in the industry". Meanwhile, the Company intends to acquire the smart production line segment through mergers and acquisitions to enhance profitability and help transform and upgrade China's manufacturing industry.

2. Actively assuming social responsibilities and leading in sustainable development of the industry

We unswervingly implement the green development strategy, disseminate advanced new energy ideas to all sectors of society, create a green ecosystem, resolutely implement measures to conserve energy and reduce consumption, vigorously apply and promote new technologies and techniques, and constantly eliminate high-energy-consuming and high-emission equipment. During the epidemic period, online offices, online conferences, and other high-efficiency and energy-saving office methods were adopted. The Company has always been in strict compliance with the laws, regulations and industry standards on environmental protection and pollutant emission relating to the state and the place of business, the characteristics of the filled gases, and has formulated strict internal regulatory documents, and has urged its subsidiaries and branches to accelerate efforts in energy conservation, emission reduction, construction of environmental protection facilities, and green office work. We actively develop and promote green products and provide green services to help build China's ecological civilization.

3. Developing hand-in-hand for a better future

We always safeguard the legitimate rights and interests of our employees, respect the diversified development needs of our employees, strengthen occupational health management, raise safety awareness, organize skills training and sports and cultural activities, provide care and warmth for our employees in difficulty, and build a broad platform for their career development. We also strengthen supply chain management, promote industrial integration, deepen international cooperation, and work with partners to complement each other in the building of resource strengths and synergistic development. At the same time, to effectively protect the labour rights and interests of employees, the Company regularly organizes welfare activities and cultured functions for employees to enhance the cohesion and centripetal force within the enterprise.





4. Facilitating sustainable operation with integrity and realizing win-win cooperation

We firmly implement the core values of "creating value with responsibility, establishing an image with integrity", and highly appreciate the requirements of stakeholders. In 2020, we conducted extensive and indepth communication with key stakeholders of the Company to further understand the issues and related recommendations they are concerned about, and improve our internal management system with a problem-oriented approach and strive to realize the sharing of development results. Through customer satisfaction surveys, we carefully listened to customer voices, formulated and implemented improvement measures, practically guaranteed information security and customer privacy, and continuously improved the level of services; we continued to improve the supplier management system and promote the establishment of good communication mechanisms; we actively participated in the formulation of industry standards in the upstream and downstream of the value chain, and proactively created our proprietary brands to achieve a win-win situation with our partners. In 2020, the Company made certain breakthroughs in environmental, social and corporate governance while ensuring the development and transformation of its principal businesses. On behalf of the management, I hereby express our sincere gratitude to all stakeholders for their support and trust.

The publication of our ESG Report reviews the Company's efforts in fulfilling its social responsibilities in 2020, in the hope of arousing enterprises of their social commitments, sharing the values and benefits between the Company and all sectors of the society, especially the stakeholders, enhancing mutual understanding and recognition, and making new and greater contributions to economic and social development through better fulfillment of our social responsibilities.

Looking forward to 2021, under the premise that the epidemic is contained and well under control, we will carry out production and operation in an orderly manner, unswervingly implement social responsibility, and continue to improve our sustainable development in such areas as market responsibility, employee responsibility, and energy conservation and emission reduction. With the support of stakeholders and national policies, we will continue to work with all our shareholders and stakeholders to meet the challenges with the guiding principle of sustainable development, the objective of enhancing economic efficiency and accelerating transformation, and the basic objective of maintaining harmonious labour relations.

Li Junjie General Manager 21 April 2021

ABOUT BEIJING JINGCHENG

1. **Company Overview**

Beijing Jingcheng is listed on the Shanghai Stock Exchange (A shares) and the Stock Exchange (H shares), and completed restructuring and asset replacement on 31 October 2013, being the only listed company under Beijing Jingcheng Machinery Electric Holding Co., Ltd. (北京京城機電控股有限責任公司). Currently, the abbreviation of H shares of the Company is "JINGCHENG MAC" and A shares is "京城股份", under the respective stock codes 0187 and 600860.

Key economic information for 2020:

Revenue: Profit Attributable Net Assets: **Total Assets:**

RMB1,088,296,501.51 to Parent Company: RMB156,431,757.57 RMB1,001,604,933.45 RMB1,695,430,862.39

As its main enterprise, Tianhai Industry is a group company with eight specialized gas storage and transportation equipment production bases (Tianhai Industry, Minghui Tianhai, Tianhai Cryogenic, Tianjin Tianhai, Shanghai Tianhai, Kuancheng Tianhai, Tianhai Hydrogen Energy, Jiangsu Tianhai) and an American company. The Company have the design qualification of A1, A2, C2, C3 class pressure vessels and the manufacturing qualification of A1, A2, B1, B2, B3, C2, C3, D1, D2 class pressure vessels. Now the Company can produce more than 800 steel seamless gas cylinders, winding gas cylinders, accumulator housings, asbestos-free filler acetylene bottle, welding insulated gas cylinders, carbon fiber full-winding composite gas cylinders (including car models), cryogenic tanks and gas station and other products, and which are widely used in automotive, chemical industry, fire-fighting, medicine, petroleum, energy, urban construction, food, metallurgy, machinery, electronics and other industries.

By accurately capturing the clean energy market, Tianhai Industry can provide customers with LNG/CNG system solutions through multi-directional technical integration of vehicle LNG cylinders, CNG cylinders, cryogenic storage tanks, natural gas stations and other aspects of technology. The Company can also design and manufacture cryogenic storage tanks, IMO tank container products of different volume and pressure levels according to the Chinese pressure vessel standard, EU ADM and 97/23/EC PED, Australia/New Zealand AS1210 and other standards. For a long time, Tianhai Industry has always adhered to the principles of "developing in line with international standards, producing based on international standards and creating international first-tier level" in manufacturing technology and scientific management, and it has obtained forty-one international certification, ISO9001:2015, ISO/ TS16949:2009 quality management system certification, ISO14001:2015 environmental management system certification, OHSAS18001:2007 occupational health and safety management system certification. After more than 20 years of development, Tianhai Industry has established a complete and efficient product sales network and after-sales service system for gas storage and operation which covers the whole country, and its products have been exported to over 40 countries and regions on five continents.

Tianhai Industry adheres to the corporate spirit of "integrity, dedication, learning, innovation and aiming at first-class", it has established a reputation for safe, reliable products and quality service. With its increasing core competitiveness and rapidly improving performance, the Company has been awarded with many honorary titles such as China's Top 100 Enterprises (中國百强企 業), Beijing's Top 10 Foreign-invested Enterprises (北 京市十佳外商投資企業), Beijing High-tech Enterprises (北京市高新技術企業), China's Metal Pressure Vessel Manufacturing Industry Leader Enterprises (中國金屬壓 力容器製造行業排頭兵企業) and the National "Labour Day" Awards (全國「五一」勞動獎狀).



2. Corporate Governance

The Company highly values and strives to improve the corporate governance structure established by the shareholders' meeting, the Board, the board of supervisors and the management team, thus forming an well balanced and coordinated operation mechanism with clear rights and responsibilities among decision-making rights, supervision rights and management rights, so as to ensure the effective implementation of the decision- making rights of the shareholders' meeting and the Board, and the supervision rights of the board of supervisors, as well as compliance of the operation and management rights of the management team effectively.

With the continuous enhancement of sustainability being at the core of ESG management, the Company has integrated ESG into routine production and operational practice by reinforcement of corporate governance and innovative implementation. The Company utilizes ESG as a significant element in achieving its strategic objective of "building the world's leading energy gas storage and transportation equipment manufacturing and service enterprise".

The Company designs and manufactures in strict compliance with relevant environmental protection and pollutant emission laws, regulations and industry standards of the PRC, of its places of operation, and of the pressure vessel manufacturing industry, including GB/T24001-2016 Environmental Management Systems — Requirements with Guidance for Use and GB/T45001-2020 Occupational Health and Safety Management System Requirements with Guidance for Use. Based on these, the Company has established environmental management systems and procedures such as Environmental and Occupational Health and Safety Management System Procedures, Environmental Factors Identification and Evaluation Form and List of Important Environmental Factors, and Solid Waste List. The Company has also established a Safety and Environmental Protection Department to provide staff training on environmental protection knowledge, enhance awareness of environmental protection, supervise and manage environmental protection-related work, with a focus on saving energy and reducing emissions, and manage environmental factors and pollutants emission, so as to ensure smooth production and operation.

3. Business Philosophy

The Company's spirit of "integrity, dedication, learning, innovation and aiming at first-class' has helped it establish a reputation for safe, reliable products and quality service. With its enhanced core competitiveness and rapidly improving performance, the Company provides high quality products for customers and creates value for society.

By adhering to the concept of green manufacturing, the Company actively promotes energy saving, consumption reduction and comprehensive utilization of resources. Besides, the Company makes great efforts to implement the new strategy of "saving energy, reducing consumption and emissions, and enhancing efficiency", and strives to promote the sustainable development of society while constantly improving our intrinsic value and creating maximum return for shareholders.

4. ESG Management Mechanism

The Board of the Company assumes full liabilities for the management and reporting of the Company in the areas of ESG and is responsible for assessing and identifying the Company's environmental, social and governance risks, and for ensuring that the Company has an appropriate and effective environmental, social and governance risk management and internal control system. The Company's management provides information to the Board to assess the effectiveness of the above systems. Environmental, social and governance requirements contribute to the Company's continued improvement of operation and management.

There are four committees under the Board, namely, the Strategic Committee, the Audit Committee, the Nomination Committee and the Remuneration and Appraisal Committee. In accordance with the division of responsibilities, the Strategic Committee of the Board of the Company shall be responsible for conducting research and making recommendations on the Company's long-term development strategy and major investment decisions, and organizing the policies and practices of the corporate governance, control system and organizational structure of the Company, including advising the Board on corporate governance guidelines and monitoring the Company's implementation of

such policies and guidelines to achieve cont improvement and optimization. The Audit Cor of the Board shall supervise the internal audit syst its implementation, review the internal control sy the Company and organize internal control ins evaluate internal control defects and superv relevant rectification, and regularly listen to the of the Company's internal control work and de whether the internal control system is operated eff on a continuous basis. The Nomination Comm the Board shall be responsible for selecting and recommendations on the personnel, selection criteria and procedures in respect of the Company's directors and managers. The Remuneration and Assessment Committee of the Board shall be responsible for formulating the assessment standards of the directors

and managers of the Company and conducting such assessments. The Board of the Company holds regular meetings to listen to reports from the management team on safety production, operation management, internal control, and fulfillment of social responsibilities etc., while supervising and providing guidance.

In order to ensure that the ESG Reporting Guide of the Stock Exchange is effectively implemented, the Company has set up an ESG work management mechanism, of which the Secretary of the Board of the Company shall be responsible for coordination, communicating ESG disclosure requirements with department heads. Meanwhile, each department shall be responsible for the assignment of relevant personnel and the implementation of the specific ESG work. The ESG work management mechanism embodies the work model of ESG management with the leadership of the Company's Board and the joint engagement of the management and multiple departments of the Company, which fully guarantees the effectiveness and applicability of its ESG management.





5. Promoting Industry Development

Over the years, the Company has been devoted to promote sustainable industrial development by taking an active lead in improving a series of national industry standards and refining product-related laws and regulations. The Company has participated in the following industry organizations:

Organization	Membership
Natural Gas Vehicle and Boat Branch of China Transportation Association	Director
Beijing Association of Automobile Manufacturers	Member
Beijing Mechanical Engineering Society	Member
Guangdong Industrial Gases Occupation Association	Director
Beijing Association of Occupational Disease Prevention and Control and Safety Risk Prevention and Control of Operation in Confined Space (北京市職業病防治和有限空間作業安全風險防控聯合會)	Director
China Industrial Gases Industry Association	Member

ABOUT BEIJING JINGCHENG

6. Honours and Awards

In 2020, with its competitive strengths in the industry and outstanding management results, the Company has been continuously recognized by the Chinese government, the Beijing Municipal Government, various industry associations and authoritative certification bodies. Some honours and awards obtained by the Company and its subsidiaries in recent years are as follows:



High tech Enterprise



Zhongguancun High tech Enterprise



Occupational Health and Safety Management System Certification



DOT-4L Certificate (5th Edition)

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Environmental Management System Certification

	Transport Canada	Transports Canada	
	Safety and Security	Selcarited et starend	
	Transportation of Dangerous	Direction générale du transport	
	Goods Directorate	des marchandises dangensuses	
	Place de Ville, Tower C 330 Searks Statet	Place de Ville, Tour C 330, rue Seurks	
	Ottawa, Ontario KIA 0N5	Otawa Ontario KIA 085	
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		cate of Registration, number TC Registration previously issued to th	
reques	contact us at MOCRegister-Regist t amendments to this registration, red mark in any correspondence re	reContenant@tc.gc.ca should you ha Please refer to your file number AS lated to this registration.	ve any questions or wish to D 4067-26-2-0156 or your
Sincer	aly,		
	tering Services		
	atory Affairs Branch		
Transp	cetation of Dangerous Goods (TD)	3)	
encl.			
c.c.	Authorized Testing, Inc.		

Certificate issued by Transport Canada



Quality Management System Certification



ISO/TS 16949:2009 Certificate

2020 is the closing year of the "Thirteenth Five-Year Plan", and marks the beginning of the "Fourteenth Five-Year Plan". According to the independent contribution target proposed in the Paris Treaty by China, the country's carbon emissions will reach its peak by 2030 and achieve carbon neutrality by 2060. As we face the global challenge of climate change and resources shortages, energy saving and emissions reduction have become major imperatives of corporate development. Coping with climate change is also the responsibility of every corporate citizen.

As a responsible manufacturing enterprise, and in response to the call of the national clean energy policies, the Company incorporates the concept of green development into every step of its routine production and operations. Through continuous enhancement of emissions treatment, energy savings and emissions reduction, construction and operation of environmental protection facilities and green offices, and other efforts, the Company strives to coordinate the development of production and operations with environmental protection, and to make positive contribution to saving energy, reducing emissions, and the development of China's environmental protection industry.

Stakeholder Engagement

We highly value our communications with each stakeholder, and strive constantly to improve our stakeholder engagement mechanism, enhance operational transparency, disseminate the concept of corporate social responsibility through multiple channels, understand and actively respond to stakeholders' needs, and make progress in partnership with stakeholders.

Stakeholders	Expectations and Demands	Communication and Response	
Government and regulatory authorities	 Compliance with laws and regulations Payment of taxes Support for economic development Creation of job opportunities 	 Conducting business in compliance with relevant laws and regulations Regular communication with regulatory authorities Pay taxes according to law 	
Investors	 Return on investment Risk management Safe production 	 Regular disclosure of operating information Investor meetings On-site inspection 	
Customers and business partners	 Good faith and truthful performance of the agreement Fair, just and open procurement High-quality products High-quality services Fulfilment of the diverse needs of customers and creation of value for them 	 Business communications and contracts Open tendering and price comparison Assurance of product quality Customer satisfaction surveys 	
Employees	 Occupational health Remuneration and benefits Career development Employee caring 	 Occupational health examination Provision of satisfying remuneration and benefits Provision of training Workers Congress, staff forums, suggestion box and recreational activities 	
Environment	 Energy savings and emissions reduction Ecological protection 	 Communications with local regulatory authorities and residents Managing emissions and enhancing efficient use of resources and energy 	
Industry	 Development of industry standards Promotion of industry development 	 Involvement in development of industry standards Attending industry forums Visits and inspections with industry peers 	
Community and the public	Engagement in community developmentSupport for charitable activities	Public welfare undertakingsVolunteer services	

Fulfilling Green Operational Responsibilities



2.

"Innovation, coordination, green, openness, and sharing" are China's five major development concepts. Chinese government has made addressing climate change a major strategy for national economic and social development, further promoted the construction of ecological civilization, and developed a green economy, making the active promotion of various emission reduction measures as the core of policies to address climate change.

The "Thirteenth Five-Year Plan" period is the closing period for China to implement the grand goal of building a well-off society in an all-round way, and it is the beginning for China's economic and social development to enter the new normal. The Company incorporates the concept of green development into every step of its routine production and operations. Through continuous enhancement of emissions treatment, garbage classification, energy savings and emissions reduction, construction and operation of environmental protection facilities and green offices and other efforts, the Company strives to coordinate the development of production and operations with environmental protection, and to make positive contribution to saving energy, reducing emissions, and developing China's environmental protection industry.

In order to continuously reduce energy consumption, reduce carbon dioxide emissions, improve energy utilization, and achieve the goal of comprehensive and sustainable development, the Company established and implemented a management system according to the specific requirements of "Energy Management System Requirements" (GB/T23331) and DB44/T1944-2016 "Carbon Emission Management System Requirements". In 2019, the Company obtained the energy management system certification (expiring in August 2021).

In response to the call of the national clean energy policies, the Company incorporates the concept of green development into every step of its routine production and operations. Through continuous enhancement of emissions treatment, energy savings and emissions reduction, construction and operation of environmental protection facilities and green offices, and other efforts, the Company strives to coordinate the development of production and operations with environmental protection, and to make positive contribution to saving energy, reducing emissions, and the development of China's environmental protection industry.

The Company has set up circulating water stations and sewage treatment stations. Cooling water accounts for a large proportion of the total volume of water of industrial use. In order to save water resources, the Company has added circulating water pipelines and cooling facilities to satisfy the need in the process production while saving a significant amount of water resources.



(1) Emissions Management

As a manufacturing enterprise, the Company designs and manufactures in strict compliance with relevant environmental protection and pollutant emissions laws and regulations and industry standards of the PRC and of its places of operation, and of the pressure vessel manufacturing industry. These including GB/T24001-2016, The Requirements of Environmental Management System and User's Guide, GB/T45001-2020 The Requirement of Occupational Health and Safety Management System and Guide for Use, etc. Based on these, the Company has established environmental management systems and procedures such as the Environmental and Occupational Health and Safety Management System Procedures. The Company has also established a Safety and Environmental Department and formed a leading group of energy saving and emission reduction to supervise and manage environmental protection-related work with a focus on energy savings and emissions reduction. The Company identifies environmental factors annually and develop protection measures accordingly. To this end, the Company established the Environmental Factors Identification and Evaluation Form and List of Important Environmental Factors with reference to the State's Solid Waste List to increase its effective management of environmental factors, waste disposal etc.. Waste generated by the Company's production is treated in full compliance with the Environmental Protection Law of the People's Republic of China (《中華人民共和 國環境保護法》), the Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution (《中華人民共和國大氣污染防治法》), the Law of the People's Republic of China on the Prevention and Control of Water Pollution (《中華人民共和國水污染防治法》) and other relevant environmental protection laws and regulations, as well as local governments' administrative measures for solid waste. The waste is classified for collection and treatment within the Company. Domestic waste is transferred to municipal departments for treatment, while treatment of hazardous waste is entrusted to qualified and permitted units from governmental environmental departments. The Company issued the Notice on Strengthening Environmental Protection Work which requires different sections of the Company including technical, supply, sales, equipment and production to formulate standards, enhance communication and reduce hazardous waste from their respective sources. The Company provides staff training on environmental protection knowledge to raise environmental awareness. Meanwhile, an environmental production management system was formulated and implemented to penalize and educate departments that cause environmental damage. The Company has also established a specialized department to supervise safe production and environmental protection, and ensure the coordinated development of production and operations and environmental protection. Minghui Tianhai and Tianhai Cryogenic performed regular maintenance on the canteen oil fume purifiers while Kuancheng Tianhai increased canteen oil fume purifiers according to new standards to improve purification efficiency. Kuancheng Tianhai newly added an oxy-fuel combustion device to reduce the generation of nitrogen oxides.

The construction projects of the Company are carried out in strict accordance with the requirements of the "three simultaneities", and we actively participate in the accident rescue mission organized by the Municipal Emergency Bureau, fulfilling our corporate social responsibilities. The emission data of major subsidiaries is as follows:

A. Measures for reduction of exhaust gas emission:

Implementer	Emission reduction measures
The Company and its subsidiaries	To regularly maintain the exhaust gas treatment facilities and change dustproof bag, as well as activated carbon
Tianjin Tianhai	To replace oil-based paint with water-based paint, upgrade and transform large-line spraying environmental protection treatment facilities, complete the disposal of volatile organic adsorption generated from the completion of painting, dusting, full-winding and gluing process and combustion desorption at operation places and the collection and treatment of smoke and exhaust gas generated from the process of medium frequency, spinning and welding of Tianjin Tianhai
Minhui Tianhai	To main high-power welded dust purification equipment regularly and ensure the dust purification effect
Kuancheng Tianhai	To purify the exhaust gas generated from paint spraying and drying by the regenerative thermal oxidizer (RTO) device after filtering, apply the canteen oil fume electrostatic fume purifier and enhance the quality of operators, increase oxygen-enriched combustion devices to reduce nitrogen oxide emissions, conduct daily maintenance of the exhaust gas treatment device to ensure the normal operation of the system and efficient treatment.
Tianhai Hydrogen Energy	To carry out waterproof renovation of hazardous waste collection containers; airtight renovation of the rubber distribution area; maintenance of VOC purification equipment; add activated carbon to VOC equipment to improve the efficiency of adsorption and decomposition, and replace acetone with environment friendly solvents to reduce VOC emissions.
Tianhai Cryogenic	To implement desorption and combustion for spray paint waste, increase welding dust removal equipment



The emission data is as follows:

Greenhouse gas	Emission data
Sulfur dioxide	Approximately 298 tons
Nitrous oxide (oxynitride)	Approximately 11.38 tons
Carbon dioxide	Approximately 11,948.16 tons
Total	Approximately 11,970.665 tons

Note: Except for the aforesaid greenhouse gas, the Company does not generate other greenhouse gas such as methane, hydrogen carbon compounds etc. The emission concentration of various facilities of the Company meets the requirements of relevant department.

Hazardous waste	Emission data
Benzene	Approximately 0.003 ton
Benzene series	Approximately 0.093 ton
Non-methane hydrocarbon	Approximately 0.53 ton
Particle	Approximately 0.5 ton
Dust emission of shot blasting process	Approximately 0.73 ton
Total	Approximately 1.856 tons

Note: The emissions concentration of various facilities of the Company meets the requirements of relevant departments.

B. Measures for reduction of waste water discharge:

Implementer	Discharge reduction measures
Kuancheng Tianhai	The production waste water flows to the waste water treatment facility through the sewage pipe of the plant for recycling purposes, the domestic waste water flows to the septic tank, the canteen waste water first flows to the septic tank after the oil and water separator treatment and finally flows to the Kuancheng county sewage treatment plant through the municipal sewage pipe network
Tianhai Cryogenic	To increase the usage of circulating water, strictly control the work and discharge of the sewage treatment station to meet the discharge standard
Tianhai Hydrogen Energy	To transform the waterway of cleaning equipment, reuse deionized water for cleaning process



The emission data is as follows:

Total an	nount of industrial waste water produced	163,685.115 tons	
of which	Emission	Emission data	
1	Chemical oxygen demand (COD)	Approximately 23.74 tons	
2	Ammonia nitrogen	Approximately 0.63 ton	
3	Suspended solids	Approximately 3.218 tons	
4	Total phosphorus	Approximately 0.099 ton	
5	Flora and fauna	Approximately 0.004 ton	
6	Petroleum	Approximately 0.027 ton	
	Total	Approximately 27.088 tons	

Note: The emissions concentration of various facilities of the Company meets the requirements of relevant departments.

C. Measures for waste reduction:

Implementer	Waste reduction measures		
The Company and its subsidiaries	In order to protect the ecology and reduce the pollution of waste to the surrounding ecology, the Company resolves to effectively control all types of wastes discarded, classify the domestic wastes and the non-metallic wastes generated in the course of production and process them separately.		
	of which 1. Hazardous waste: viscous oil waste, spray paint waste, etc. are collected by the entities with waste disposal qualifications certified by the environmental protection bureau for recycling 2. Non-hazardous recyclable waste: scrap metal materials and parts, non-hazardous packages are collected by the waste recycling company 3. Other general waste: household waste is disposed by the municipal government		
Tianjin Tianhai	Replacing oil-based paint with water-based paint to lessen the production of hazardous waste, customized procurement and blanking of steel pipes to reduce the production of general solid waste		
Tianhai Hydrogen Energy	To replace acetone with environment friendly solvents and avoid producing hazardous waste		



D. Management of non-hazardous waste

The Company generates non-hazardous recyclable waste in its business operations such as scrap metal materials and parts and non-hazardous packages, which shall be collected by recycling companies, and generated a small amount of other general waste such as domestic waste, which shall be disposed by the municipal government.

Packaging materials consumption of the Company in 2020:

Packaging box	Approximately 43.4 tons
Foamed plastics	Approximately 12 tons
Total	Approximately 55.4 tons

(2) Energy saving measures

In 2020, the Company continued to regard energy conservation and low carbon as its key focus of the year, and established a long-term management mechanism on the basis of continuous refinement of management measures. Starting from the source of energy saving and emission reduction, we strictly controlled the process to achieve energy saving and emission reduction targets. At the same time, training sessions were arranged for employees of the Company, and awards were given to participants by setting those having outstanding performance in cost reduction and efficiency enhancement, so that the concept of energy saving and emission reduction could be deeply rooted in the minds of our employees.

In 2020, the energy saving leading group in the Company obtained outstanding results, generated a total of 10 outstanding cost reduction projects, and significantly enhanced the energy utilization efficiency. The leading group and other dedicated personnel of energy management are responsible for effectively implementing the task of energy saving and emissions reduction assigned by the superior and completing the Company's energy-saving targets based on government assessment. The Company regularly revises the energy management system and energy assessment indicators for decomposition every year. The Company also ensures that when purchasing new equipment, using new technologies, and undertaking technologically innovative projects, priority is given to new energy saving technologies, processes, equipment and materials. In particular, energy-saving products that are recommended by the PRC or internationally recognized bodies shall have first preference. Finally, collection, summarization, analysis and assessment of data on energy consumption are performed by the Company every month; such calculation is based on the amount of consumption per RMB10,000 of output value, and regular inspection is performed.

Energy consumption (including natural gas, water, electricity, etc.) of the Company and its major subsidiaries in 2020:

No.	Energy	Measuring unit	Total consumption for 2020	Energy consumption per RMB10,000 output
1	Natural gas	0'000 cubic meters	488.51	0.0664
2	Petrol, diesel	Ton	44.37	0.0007
3	Heat	Million kJ	32,944.99	0.0115
4	Electricity	0'000 kWh	4,919.04	0.0617
5	Water consumption	Cubic meters	261,780	2.6738

In 2020, the main energy-saving renovation projects of the Company were as follows:

A. Kuancheng Tianhai denitrification construction project

The oxygen-enriched combustion-supporting energy-saving environmental protection renovation project was completed in mid-November. After the renovation, the maximum converted concentration of nitrogen oxides discharged from the exhaust gas pipe outlet was reduced by 65mg/m³ as compared with that before the rectification, saving 500 cubic meters of natural gas each day.

B. Upgrading and transform project of air compressor of Kuancheng Tianhai

As the original air compressors in Kuancheng Tianhai Production Support Department had been used for a long time, the technology was outdated and consumed too much energy, the maintenance cost was also too high. According to data analysis and market research results, two new air compressors were installed and put into use on 31 July 2020. The new air compressors put into use adopt the energy-saving variable frequency screw equipped with the latest technology of dual compression and saved an average of 1,860 Kwh per day, a total of approximately RMB420,000 was saved as compared with that under the same production conditions.



Picture: Comparison of the air compressors in Kuancheng Tianhai before and after renovation

C. The green office

In 2020, to continue to respond to the national requirement of energy saving and emissions reduction, the Company and its subsidiaries carried out the "Green office, low carbon" activity to create a green and energy-saving office environment. The Company implemented a number of measures to reduce daily energy consumption and increase the utilization efficiency of resources. In terms of electricity, light-emitting diode lamps and other energy saving devices are used in offices. Employees are required to shut down office equipment including lighting devices, maintain air conditioning temperature at the range of national standards as required, continue to promote paperless office and set up recyclable trash bins according to the relevant requirements relating to garbage classification to recycle waste paper, printer ink cartridges and batteries.



(3) Production Safety

In 2020, the Company conscientiously implemented the spirit of the national and city-wide safe production video conferences and city SASAC safety and stability conferences, firmly established the red line consciousness that "seeking for development at the expense of security is unacceptable", and adhered to the policies of "security first, prevention-oriented, comprehensive treatment". With "preventing various types of production safety accidents" as its goal, and "building a dual prevention mechanism and facilitating promotion through guaranteeing coordination and rectification" as the main line of action, and focusing on "supervision and inspection of production safety and comprehensive examination", we strived to deepen the implementation of the principal responsibility for production safety, continuously carry out safety education and training, improve the emergency management mechanism and achieve safe operation.

In face of the sudden outbreak of the COVID-19 pandemic, the Company has assumed its responsibilities in accordance with the requirements of the government. The Company formulated and released relevant documents, deployed the prevention and control of the COVID-19 pandemic, and established a leading group for the prevention and control of the COVID-19 pandemic as well as a material procurement and disinfection team, conducted questioning and screening, carried out disinfection of public areas, nucleic acid testing for all employees, regular nucleic acid testing on the environment and key personnel, and through all these measures, our work and production were resumed in an orderly manner.

1) System and process improvement

Based on the people-oriented principle, the Company strictly implemented the Safe Production Law of the PRC, the Safe Production Regulations of local governments, and specific requirements for safe production. The Company has established 72 safety-related rules and regulations under the Safe Production Management System and Safe Production Contingency Plan and implement systems in practical work. In keeping with "Single Position, Double Responsibilities, the Party and the Government are Both Responsible" for safe production, the Company has established the safe production responsibility systems for staff members at all levels and positions. The Company signs a Letter of Safe Production Responsibility at the beginning of each year, which serves as a reminder that responsibility for safety falls on every individual. In compliance with safety governance standardization requirements, the Company undertakes to selfexamine and rectify as needed matters pertaining to production safety, and has subsequently obtained (along with its subsidiaries) Level 1 to Level 3 certificates of Safety Standardization to further promote safe production. As a preventive measure, the Company annually identifies potential sources of danger and formulates specific countermeasures in accordance with GB/T24001-2016 The Requirements of Environment Management System and Guide for Use and GB/T45001-2020 The Requirements of Occupational Health and Safety Management System and Guide for Use. In accordance with "One Enterprise One Standard, One Position One List", the Company also investigates and manages potential safety risks, carries out monthly summary and analysis, and implements any needed rectification work. The Company organizes staff activities such as "Safety Month" and "119" emergency plan drills and carries out emergency drills for X-rays leakage and confined space to reinforce their ability to cope with emergencies, avoid serious injuries or above level accidents and eliminate the occurrence of minor injuries.





1. X-ray anti-misillumination drill



2. Confined space drills



3. Fire drills

2) Safety, environmental protection knowledge and legal education, operational procedure training

The Company provides new staff members with company-level, factory-level and team-level safety education. Staff members are only regarded as qualified to work after examinations have been passed. Annual safety education sessions are provided to all staff members for maintaining their awareness, their ability to identify potential sources of danger, and their ability to protect themselves from hazards. The Company provides training session for all staff at middle-level to learn about "Beijing Regulations on the Main Responsibility of Production Safety of Production and Operation Units Order No. 285"; organizes special training on hazard identification and risk assessment for personnel responsible for GB/T24001-2016 and GB/T45001-2020 systems, safety departments, department leaders as well as full-time and parttime safety management personnel in various departments and subsidiaries. The Company organizes senior leaders, fulltime and part-time safety management personnel from Tianhai Industry, Tianhai Hydrogen Energy, Tianhai Cryogenic, Minghui Tianhai to conduct environmental protection laws and regulations training; organizes system management personnel, full-time and part-time safety management personnel from Tianhai Industry, Tianhai Hydrogen Energy, Tianhai Cryogenic and Minghui Tianhai and Tianjin Tianhai to conduct GB/T45001-2020 "Occupational Health and Safety Management System" program documentation training. During the epidemic period, all middle-level managers are organized to participate in online training of "Post Safety Awareness and Prevention Skills Improvement" (Jing Xun Ding), so as to enable them have better knowledge of the requirements of law and its compliance, and implement them in their duties. All employees participated in the training on "Safety Operation Skills" and "Epidemic Prevention Knowledge" organized by the Ministry of Human Resources and Social Security online via DingTalk. The team leaders are provided with safety education and are kept informed of government regulations and the Company's systems, so as to lead the staff to improve their protection ability. Employees who are exposed to occupational hazards are provided with occupational injury prevention training to raise their awareness and ensure the compliance with relevant regulations and requirements. The Company's major persons in charge, supervisory persons in charge and persons in charge of the safety department all participate in professional training held by higher-level departments and government organizations and have obtained certificates. Firefighter training drills are also organised jointly with local government units.





1. Safety system training

2. Regular safety inspection

3) Bases of relevant policies and data of precautionary measures

Monitoring locations of	Frequency	Points	Qualified points	Unqualified points
hazards	1	402	359	43
Occupational health checks	Frequency	Pre-job health check	On-the-job health check	Post-job health check
checks				
	I	190	666	284
Local laws, regulations	GBZ/T189.8-2007 Measurement of Physical Agents in Workplace Part 8: Noise;			
and requirements	GBZ/T189.8-2007 Measurement of Physical Agents in Workplace Part 7: High			
	Temperature;			
	GBZ/T192.1-2007 Monitoring of Dust in Workplace Part 1: Total Dust Concentration;			
	GBZ159-2004 Sample Specification of Hazardous Substances Monitoring in Workplace;			
	GBZ2.1-2007 Occupational Exposure Limit of Hazards in Workplace Part 1: Chemical			
	Hazards;			
	GBZ2.2-2007 Occupational Exposure Limit of Hazards in Workplace Part 2: Physical			
	Agents, the Law on the Prevention and Control of Occupational Diseases.			iseases.

- Number of Serious Production Minor safety work-related Total (‰) Death (‰) injury (‰) injury (‰) Year Near misses injuries 2020 3 0 0 3 0 2019 3 0 0 3 0 3 2018 3 0 0 0 Loss days 110 Tianhai Cryogenic invested RMB3,247,114.36, Tianhai Industry invested Safety RMB1,554,908, Tianjin Tianhai invested RMB2,262,500, Shanghai Tianhai invested investment RMB290,521.16, Minghui Tianhai invested RMB949,100 and Kuancheng Tianhai invested RMB1,774,105.31. The total amount is RMB10,788,994.83 Fire 1. Establish responsibility system of fire prevention post and management system of fire prevention safety; 2. Organize fire examination regularly; measures 3. Organize fire drill, strength fire prevention training and publicity; 4. Equip with fire-fighting apparatus and fire prevention facilities; 5. Increase the escape indication signals and upgrade the main control device of the central control room. Safety 1. Enhance identification and management of production safety risks and control of measures production safety risk levels, identification of risk factors and risk control. Strengthen the safety education training and emergency drill; 2. Strengthen the implementation of responsibility system of production safety and the prevention, supervision, reward and punishment of responsibility system. Execute safety commitment agreements, establish safe production targets, manage the systems, establish and improve the safety responsibility. 3. Strengthen the management of dangerous goods, strengthen operational safety procedures, occupational health checks and training, relevant parties management, labour protection supplies management and the implementation of responsibility system of inspection and supervision; 4. Set out specifications based on the safety measures required by the "three simultaneities" and install safety facilities. Establish safety management organizations, assign safety management personnel and formulate safety management requirements, provide regular safety education training to personnel and require the special workers to report duty with certificate based on the safety management system of Beijing Tianhai. According to the requirements of No.2 order of Hebei province, establish a double prevention mechanism of risk control and identification of risks. Upgrade the explosionrelated dust treatment facilities in accordance with the new standards and pass the expert acceptance. Regulatory Establish a dual-base system for risk grading control and hidden danger investigation methods and governance, clarify responsibilities and implement safety education, safety inspection at each level and safety reward and punishment.
- 4) Data and measures of safe production management

The People-Oriented Principle for Creating Harmonious Labour Relations



2

The Company regards its employees as the cornerstone of growth. We cherish their hard work and regard them as the Company's precious wealth. Not only is the Company committed to creating a safe working environment and a smooth career development path for employees, but also safeguarding the labour rights and interests of employees, providing them with generous benefits, improving the training system, carrying out rich cultural activities, and cultivating employees' sense of belonging in the factory, so as to stimulate the enthusiasm and creativity of employees, and enhance the cohesion and centripetal force within the enterprise.

(1) Management of employees

The Company embraces and values the diversity and talent of employees from different cultures and social backgrounds. Following on from strategic requirements of "transforming from manufacturing to service-oriented manufacturing business" and "marching towards high-end brand from mid-to-low end brand", the Company strives to enhance the quality and efficiency of employees' work by establishing production and work procedures which fully utilize their enthusiasm, initiative and creativity. In this way, our employees contribute to achieving the Company's aim of becoming a first-class, internationally competitive enterprise.





(2) Employment policy

The Company values and protects the legal rights of all employees according to law and maintains strict compliance with the Labour Law of the People's Republic of China, the Labour Contract Law of the People's Republic of China, and relevant local laws and regulations. The Labour Law of the People's Republic of China sets out strict regulations on the prohibition of recruiting minors and working hours, rest and vacations of employees. The Company organizes personnel recruitment annually based on operational plans and the number of employees consequently required for various positions. Recruitment targets fresh graduates and general public in order to encompass people from all walks of life and classes. The Company upholds a "people-oriented" principle, with emphasis on the basic human rights of employees and prevention of any discrimination based on gender, age, nationality, religion, marital status, disability etc., with regards to recruitment, determination of salaries, promotions and training. The Company wishes to ensure that all employees enjoy fair, equal and open job opportunities. It offers suitable positions to disabled employees and implements "equal pay for equal work". At the same time, it strictly protects employees' personal information and prevents the leakage of such information. All these policies show the concern of the Company to every employee, and foster employees' sense of belonging.

Step	Item	Content
1	Human resources requirements	All departments and branches of the Company put forward employment requirements in strict accordance with rules and regulations;
2	Formulate plans	The Company prepares recruitment information according to the summarized needs, and develops detailed recruitment plans to ensure the maximum utilization of human resources;
3	Implement recruitment	The Company releases recruitment information through various ways including online release, offline campus recruitment and internal competing products to ensure the diversification of talent sources;
4	Organize interviews	After the selection and confirmation of candidates, the Company will regularly or irregularly organize interviews to have a comprehensive understanding of candidates;
5	Complete enrollment procedures	The Company performs the enrollment formalities for selected and determined personnel, signs legal labour contracts, provides induction training and completes the enrollment procedures.

(3) Employment promotion, remuneration and incentive policies

To provide employees with a broad development platform, the Company has formulated the Middle-level Leading Cadre Selection and Appointment Processes and Operational Procedures. This standardizes the administrative measures and selection and appointment procedures for middle-level leading cadre, and specifies the processes and operational procedures for organizational selection, internal recruitment and open selection (social recruitment). Regarding promotion, we offer fair opportunities to each employee, maintaining an impartial attitude and issuing announcements for staff promotion to ensure the fairness and openness of the process, and that our staff enjoys fair remuneration and benefits.

The Company adopts a diversified remuneration system with job performance as its primary basis for determination of salary. Based on fixed job positions, the job performance salary determines the relative value of the position through evaluation, and determines the salary level with reference to labour market price levels, to ensure both the internal and external fairness of remuneration. On this basis, the Company has developed Administrative Measures for Technical Grading of Professional Technical Staff, which entitles engineering and technical staff at technical grade upon appraisal to the corresponding executive-level remuneration, and offers technology innovation incentives to employees. For marketing staff and basic production workers, the Annual Assessment Approach for the Sales Department and the Annual Assessment Approach for Piece-rate Wage are implemented respectively. An annual salary system applies to senior management in accordance with Administrative Measures for Performance Appraisal of Senior Management. We implement a diversified remuneration policy with hierarchical classification in accordance with differences in work nature.

To enhance the staff's zeal for work and creativity, the Company has established a diversified incentive mechanism. Meanwhile, in order to actively build a platform for realizing employees' own value, the Company organizes and carries out evaluation activities for a number of staff positions and departments.

Activity	Content of activity	Result of activity
Four Tens	The Company rewarded advanced individuals and groups that take practical action to make outstanding contributions to the Company's transformation, development and the realization of the goal of improving quality and increase efficiency	The Company selected and commended "Ten pacesetters", "Ten experts", "Ten advanced group" and "Ten best projects of reducing cost and increasing efficiency"
Promotion and refund Strive to be the best sales person	The Company carried out labour competition in sales system and conducted experience exchange and recognition activities on 30 July 2020	The Company selected and commended a total of 10 "Top sales" "Sales experts" and excellent sales person
"Ankang Cup" & Safe production model team	In conjunction with the Company's campaign of "Promoting Emergency to Thousands of Households", a series of "Ankang Cup" competition activities with the theme of "Strengthening Awareness, Investigating Hidden Dangers, Stimulating Development, and Safeguarding Health" was launched	The Company carried out the appraisal activity of production safety model tem and selected 6 teams as the 2020 Production Safety Model Team.
Proposals of rationalization and small reform activities	The Company continued to carry out the "Proposals of Rationalization and Small Reforms" activities, calling on employees to face up to difficulties to strengthen their confidence and encourage employees to offer ideas and suggestions.	In 2020, 82 items of "Proposals of Rationalization and Small Reforms" were solicited, and 62 items were adopted and implemented after review.



Activity	Content of activity	Result of activity
Care for model	The Company actively promoted the deeds of model	The Beijing Municipal Committee
worker	workers and created a favorable atmosphere for	of the Communist Party of China
	studying model workers	and the Beijing Municipal People's
		Government have awarded the
		welding insulated gas cylinder
		innovation workshop the title of
		"Beijing Model Group" in 2020
Establish innovation	The Company actively organized and carried out	The welding insulated gas cylinder
office	activities such as "the capital employee quality	workshop was named "National
	construction engineering scientist (expert) entering	Machinery, Metallurgy and Building
	into the employee innovation workshop", "famous	Materials Industry Demonstration
	teacher and apprentice", and the city's innovation and	Innovation Studio", and the
	inferior promotion	composite gas cylinder and cryogenic
		pressure vessel workshop was named
		"Jingcheng Mechanical and Electrical
		Group-level Innovation Workshop"

(4) Labour standards

All work at the Company is voluntary, with no forced, indebted, contract-bound or involuntary prison labour used. All employees are entitled to resign freely upon providing reasonable notice to the Company. The Company does not allow child labour in any of its workplaces. "Child labour" refers to labourers who are under the age of 16 (or the age prohibited by law). The number of working hours shall not exceed the maximum hours stipulated by local laws, so that our employees can get enough rest. Employees are also entitled to leave for reasons of marriage, maternity, bereavement, paternity, breastfeeding and others, in addition to paid annual leave.

(5) Talent cultivation

The Company provides systematic training to employees according to its business development strategy. By encouraging their use of spare time for learning, employees' knowledge, skills and quality are improved and their personal development needs are fulfilled, enabling them to better meet the Company's operational needs. To this end, training conducted by the Company focuses on the areas of common sense, job skills, emergency response, production safety, and party building and integrity. Incentives are also provided to employees in accordance with Company policy.

In 2020, according to the 2020 Training Plan, the Company completed a total of 103,351 hours of training, involving a total of 9,762 person-times, with an average training time per person of 72.3 hours.



Picture: the training system of the Company



According to the Company's annual training plan, the Company completed "Online Epidemic Prevention and Control Training", "ISO45001 Occupational Health and Safety Management System Training", "Hazard Identification and Risk Improvement Training", "Promotion and Implementation of ISO Occupational Health and Safety Management System in 2020", "Orientation Programs for New Staffs", "Application of FMEA Control Method in Project Management-Project Management and Case Analysis Practical Course", "FMEA Failure Mode and Impact Analysis Training" and etc.



Picture: "Occupational Health and Safety Management System" Training

(6) Employee interests

A. Employees' welfare

The Company takes care of staff life and creates a harmonious atmosphere. The Company continued on "heartwarming" activities, and visited model workers, persons targeted by the united work, retired executives and employees with family difficulties or serious illness. During the Spring Festival, visits were made and regards were extended to 7 model workers, retired employees and employees in difficulties, subsidies were granted to 3 employees in difficulties, regards were also extended to security guards and on-duty employees in the energy stations who have been stuck to their posts during the Spring Festival. During Spring Festival, Labour Day, Dragon Boat Festival, National Day and Mid-Autumn Festival, the Company extended our regards to all employees by distributing holiday gifts such as rice, noodle and oil. At the same time, the Company's labour union, in order to do its best, intensified poverty alleviation efforts, all gifts were purchased from the Beijing Shuangchuang Center for poverty alleviation products, and invested RMB412,000 in three expressions of regards. On weekdays, each level of labour unions has been seriously organizing visits to let employees deeply feel the warmth from home and families. We visited and expressed our regards to 13 employees who were sick and hospitalized and their immediate family members passed away, 2 employees were in difficulties, 12 retired employees, and home-visited 8 retired employees who passed away. The Company carried out in-depth understanding of the difficulties faced by two employees, actively communicated with the superior labour union, included in the Beijing Difficulty Assistance System, and applied for the Beijing Electromechanical Warmth Fund of RMB55,000. We strengthen the care and assistance for employees who are experiencing difficulties in life during the epidemic, and actively carry out investigations on the difficulties of employees caused by the epidemic. Each branch has an in-depth
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understanding of the actual situation of the employees, and has applied for a subsidy of RMB12,000 for 6 employees in difficulty to the superior labour union for epidemic difficulties. The labour union visited and sympathized with Hubei employees who were unable to return to their hometown for the New Year due to the epidemic, and brought holiday gifts and expressed the Company's care.

During the hot summer days, we carried out the activity of "care by your side, cool summer is here" (「關愛在身邊, 夏日送清涼」), sending 7,700 bottles of mineral water and 3,250 ice cream to 339 front-line and auxiliary employees. The Company organized the "Golden Autumn learning assistance" event to apply for grants of RMB19,000 for 11 children of employees, and distribute stationaries to 32 children who "admit to primary school from kindergarten". The Company expressed it regards of "maternity care" and distributed RMB7,000 condolence fee to 7 employees (as at the end of November). We organized convenient service activities such as barber, blood pressure measurement, blood glucose measurement, key distribution, sewing, and mobile phone screen protection install during Spring Festival and the Party's birthday on 1 July, serving over 500 employees. In order to solve the hardship of grooming during epidemic, we organized and carried out the convenience service of "barber with love" for our employees. The Company cooperated with Suning Carrefour to organize the "Supermarket-In-Enterprise Shopping Event" to increase the festive atmosphere and facilitate employees to prepare for the New Year's necessities. The Company worked as agency for the employee to purchase annual tickets of theme parks. In order to better meet the diverse needs of employees for birthday gifts, on the basis of the original cake coupons and treasure book, the birthday gifts with the company's LOGO have been carefully customized to enhance employees' sense of belonging and further promote the construction of corporate culture.

B. Cultural and sports activities to boost employees' vitality

Since the beginning of this year, the Company's labour union has continued to conduct the construction of employee culture, combining with the actual situation of epidemic prevention and control, and actively organized and carried out cultural and sports activities that employees would be pleased to participate in, to further meet the spiritual and cultural needs of employees. In January 2020, the Company's labour union successfully held the Tianhai Company "Seize the day, Live it to the fullest, Greet 2020" New Year Celebration. The Company came together, opened up their hearts, released their passion, and ignited Tianhai, creating a warm, peaceful, united and forge ahead cultural atmosphere. On 8 March Women's Day, we launched a series of activities on theme of "Gathering the Strength of Heroines and Helping to Win the Battle against the Epidemic Prevention and Control", mobilizing female employees to actively participate in "Tianhai is my home, I will contribute to the fight against the epidemic" (「天海是我家,我旨下戰疫」做貢獻建言獻 策」) "Female employees in the fight against the epidemic" advanced deeds solicitation activity. Hu Yaxin (胡亞欣) from Tianhai Cryogenic was listed as the most beautiful "heroine of epidemic prevention" in Jingcheng Machinery. In order to express the Company's care for female employees, every female employee was gifted holiday presents.

During April and May 2020, the Jingcheng Machinery "Online Staff Culture Series Activities" was launched, a wide range of 48 outstanding works in cultural forms such as reading, photography and video recording, calligraphy and painting, writing, and video creation have been collected. 33 piece were selected and submitted to the superior company. In the end, 1 first prize, 4 second prizes, and 4 excellent prizes were awarded in Jingcheng Machinery, and the Company's labour union was awarded "Excellent Organization Unit". In September and October, under the background of normalizing epidemic prevention and control, in order to encourage employees to have a high spirit, combined with events of the Company, a one-month "cloud" walking activity was carried out within the Tianhai company system. 1,151 employees participated in the activity with 237 participants winning the Jingcheng Machinery weekly and monthly prizes. At the same time, the Company's labour union also rewarded the top 30 of Tianhai Company every week and the top 100 of the entire event. In order to meet the diverse needs of employees, 5 people were organized to participate in the photography and traditional Chinese painting classes were set up by the labour union of Beijing Machinery. Table tennis and billiard team competitions were also launched in December.

Creating Value and Contributing to Society



(1) Strictly governing the enterprise according to law

The Company regulates its positioning of rights and responsibilities and the way of exercise in strict accordance with laws and regulations such as the Company Law of the People's Republic of China and the Law of the People's Republic of China on State-owned Assets of Enterprises (《中華人民共和國企業國有資法》), under the guidance of the Company's articles of association. The Company also conscientiously implements the strict audit process for contracts, rules and regulations and major decisions, builds a legal affairs management system to prevent and control legal risks, promotes subordinate companies to establish and improve the internal control system, strengthens internal control management, improves the audit system, conducts internal audit, enhances audit supervision, and timely organizes communication meetings, seminars, training sessions when dealing with league problems in major projects and rules and regulations to be put into practice. At the same time of steadily progressing its businesses, with compliance management as a fundamental requirement, the Company strives to integrate compliance management into its business processes to ensure the Company's orderly operation and management.



Picture: Convening the conference on "Demonstrating Rules by Cases-Auditing Legal Management System Propaganda and Implementation Training"



(2) Promoting corruption-free operation

The Company and its subsidiaries have always attached great importance to fight against corruption, advocated corruption-free operation, opposed to commercial bribery and strictly complied with laws and regulations in relation to the prevention of bribery, extortion, fraud and money laundering. The Company has implemented regulations and systems such as the "Regulations on Implementing the Responsibility System for Party Conduct and Clean Government Building", the "Party Style and Clean Government Construction Work Report System", the "Discipline Inspection and Supervision Work Plan in 2020", the "Key Points of Discipline Inspection and Supervision in 2020", the "Implementation Measures for Implementing the Party Committee's Main Responsibilities and Disciplinary Committee's Supervision Responsibilities of the Party's Work Style and Clean Government Responsibility System" and the "Regulations on the Management of Integrity in Practice", so as to continuously carry out the construction of party's corruption-free work style and anti-corruption work.

In 2020, Tianhai Company held a work conference on comprehensive strict governance of the Party (party building) for 2020, and the directly affiliated grass-roots party organizations signed 11 letters of responsibility for the goal of strict party governance. The Company launched a month-long campaign on the promotion and education of integrity among party members with the theme of "upholding the original intention, awakening the party spirit, living up to our mission and conducting business with integrity". 271 employees participated in the party day campaign on strict observance of political discipline and political rules, and a platform for promoting integrity was set up in the cloud. 20 manuscripts related to the construction of party style and clean government were submitt for publication, 271 employees participated in the "Integrity Micro-course" online learning session, while 296 employees participated in the "Integrity Test" online. There were as many as 46 works in the online Integrity Painting and Calligraphy Exhibition with the theme of "Incorruption in My Heart". The Company assigned 49 middle-level employees to work on clean government files. The work performance, business performance evaluation, democratic evaluation and organization inspection of 6 cadres who have completed their probation period were comprehensively investigated. In 2020, the Company's Commission for Discipline Inspection conducted 300 random inspections on the Sunshine Procurement Platform to monitor the operation of the platform, organized personnel from the Type IV cylinder workshops to engage in anti-corruption education, popularized discipline knowledge, and provided "timely rain" for the grassroots level of discipline and law. The Company's Commission for Discipline Inspection has successively carried out more than 10 special supervisions, such as supervision of epidemic prevention and control and resumption of work and production, enforcement of Party discipline and administrative punishment, investigation in "private car maintained by public resources" (私車公養) and hindsight actions, fighting corruption in poverty alleviation, selection of personnel, sun procurement platform, immediate response to lawsuits, anti-epidemic and recognition of incentive work, implementation of rent reduction and exemption implementation plan for small and medium-sized enterprises, performance treatment for enterprise leaders, implementation of management measures for business expenditures and management of travel expenses, close monitoring of major projects, key fields and key positions, and strengthening supervision of departments with concentrated power, high capital and rich resources, so as to effectively prevent corruption. The Company's Commission for Discipline Inspection continued to carry out supervision and inspection work to examine whether there was any sign of "formalism, bureaucratism, hedonism, and extravagance" in the critical time and festivals, ensured the whistleblowing work was conducted in an orderly and confidential manner and set up a special hotline and E-mail address for whistleblowing, and effectively safeguarded the vital interests of the employees. In addition to giving warning in the critical time through special meeting, WeChat work group, OA office platform and other ways, a special column titled "Alarm Bells Ring (警鐘長鳴)" was published in the monthly Tianhai Information (《天海資訊》) to release criminal cases which caught public attention as positive and negative examples; at the same time, related warning videos were played at the monthly branch secretaries' regular meetings.



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1. Comprehensive and Strict Party Governance Work Conference



2. Watching related warning videos

(3) Protection of intellectual property

The Company implements comprehensive management of the management, use and risk prevention and control of intellectual property rights, and strictly abides by the Patent Law of the People's Republic of China, the Trademark Law of the People's Republic of China, etc. in its production and operation activities and passed the effective implementation of intellectual property management system documents.

The Company has incorporated the strengthening of protection of intellectual property rights into its management work, and through the establishment of a series of knowledge management systems, provides guidance to the Company's intellectual property rights management activities, handles patent applications, trademark maintenance, and avoids infringement of intellectual property rights and patented technologies to maintain the Company's brand image.

To protect its own innovative technologies and brand, the Company has applied for a number of patented technology and trademark registrations in China and overseas. In China, we have obtained 16 technology patents, 28 utility model patent technologies and two patents pending for registration. Meanwhile, the Company has registered the trademarks of JP, BTIC, etc. in 14 countries, including the European Union, Canada, the United States and Singapore; and 22 trademarks for self-owned brand names of JP, BTIC, BTCE, etc. at the Trademark Office of the State Administration for Industry & Commerce of the PRC. The Company has been recognized as a "Trustworthy Enterprise" by the Beijing Municipal Administration of Industry and Commerce.



(4) Protect Information Security and Privacy

The Company attaches great importance to information security, strictly protects the customer privacy and employee privacy. In order to standardize information security work and internal employee behavior, the Company carried out the following five aspects of work: Firstly, the Company formulated 11 management systems such as the "Network Information Security Management System" and "Information System Project Management System" relate to security and informatization to further improve the network information security system files. Secondly, the Company accepted the evaluation of the China Software Evaluation Center, made improvements and upgrades based on the evaluation issues, and continued to strengthen the construction of network security in accordance with the requirements of the "Internet Security Law". Thirdly, the Company signed the Network and Information Security Commitment (《網絡與信息安全承諾書》) with all employees to further improve the employee's awareness of information security and privacy protection. Fourthly, the Company further strengthened the management of the server room, adjusted the strategies such as security protection, anti-intrusion, anti-tampering and upgraded anti-virus system to ensure the security of the server room and software system. Fifthly, the Company strengthened the contingency plan practice to ensure the effectiveness of data backup and that the system can be put back into use more quickly when run into system anomalies.

(5) Customer Services

To enhance its connection with customers and understanding of their needs, the Company has established an extensive after-sales system and an after-sales department to provide services in the areas of packaging guidance, repair, information consultation, complaints, and others. On receiving calls from customers, the after-sales department records the customer's information and then determines a preliminary approach to their issue based on the content of the complaint. Simple guidance on repair can provided over the phone. Cases which cannot be dealt with over the phone are handled with the corresponding procedures in accordance with Company regulations. After completion of each after-sales case, the problem situation, results, responsible department and person, preventive and corrective measures, etc. are all recorded. In 2020, the Company received a total of 448 calls, including 121 for consultations and inquires, 327 for reception and after-sale services.

The Company makes all practical efforts to correct product defects in a timely manner. In the unlikely event of a product will be handled in accordance with the Procedures for Handling and Control of Returned Products. The quality of the Company's products, which are related to vehicle parts and components, is of crucial importance to the consumer safety. Therefore, we are committed to product quality and we assume full responsibility for accidents arising from the failure of our products. Upon receiving a customer complaint, we will establish a task force in accordance with the global 8D problem-solving methodology to provide a prompt response, investigate the reasons for the issue, and develop an improvement plan to avoid similar incidents.

(6) Quality assurance

The Group has established stringent processes and systems to ensure that all its products and services comply with all the relevant laws and regulations, as well as internal rules including (but not limited to) the Product Quality Law. The Group's quality policies are: To implement a zero-defect quality management strategy; maintain continuous innovation and improvement; observe laws and regulations, enhance customer satisfaction; provide environmental-friendly, safe, high-quality products and services. The manufacturing facilities of the Group have formulated a quality management system and obtained ISO9001 and IATF16949 certifications.

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Upon receiving a customer complaint, we will establish a task force in accordance with the global 8D problem-solving methodology to provide a prompt response, investigate the reasons for the issue, and develop an improvement plan to avoid similar incidents.

(7) Supply chain management

The Company conducts on-site evaluation of type A suppliers every two years to assure the quality of suppliers. For those unqualified suppliers, the Company will reduce the procurement volume from them, or even remove them from the qualified suppliers list.



ESG MANAGEMENT APPROACH



(8) Social contributions

The Company actively fulfilled and assumed its social responsibilities, attached great importance to and actively repaid the society. In 2020, it widely organized employees, party members and young party members to provide volunteer services.

A good social environment is the soil for the survival and development of an enterprise. The Company took the initiative to fulfill and assume its social responsibilities, attached great importance to and actively repaid the society. In 2020, we intensified our efforts to help target poverty alleviation areas and organize various poverty alleviation activities. In response to the requirements of the Garbage Classification Regulations, the Company strengthened the garbage classification work; actively responded to the government's call, quickly organized manpower and material resources, and invested in the national epidemic prevention work;

a. Targeted poverty alleviation

The Company insisted on sharing development results with the society, ensuring people's livelihood, as well as enhancing people's livelihood and well-being during development. We have stepped up efforts to help target poverty alleviation areas, and implemented a variety of effective poverty alleviation projects. We actively participated in community communication, organized various poverty alleviation activities, and actively gave back to the society.

The Company continued to assist in poverty alleviation, carried out consumer poverty alleviation and counterpart assistance, and the total procurement amount throughout the year was approximately RMB98,300, of which the labour union systematically purchased about RMB345,800 and the canteen procurement amounted to about RMB352,500.

In 2020, under the same conditions, the Company determined and reserved over 30% of the total amount of farmers' products purchased by the Company's canteen for targeted procurement of poverty alleviation agricultural and sideline products from Beijing's poverty alleviation cooperation poverty-stricken areas and the Beijing Consumer Poverty Alleviation Industry Double Innovation Center. The person-in- charge of the canteen determined the place of purchase that meets the requirements through on-site visits. In order to implement the instructions and requirements of the superiors, the Company purchased poverty alleviation products as much as possible. At present, the total purchase of poverty alleviation products in the canteen amounted to RMB352,492.

The Company also actively played the role of labour unions, and purchased the poverty alleviation consumer products designated by Beijing under the same conditions in accordance with relevant regulations for union welfare, employee holiday regards, and so far the labour union purchases for employee holiday condolences were all poverty alleviation products, and the cumulative amount was RMB345,800.

b. Garbage classification

The Company actively responded to the call of the municipal government according to the requirements under the Garbage Classification Regulations to strengthen garbage classification, save resources, create a good living environment, formulate relevant rules, place four types of garbage bins for kitchen waste, other garbage, discarded masks, and recyclable garbage in public areas, set up a special team for garbage classification, and arrange personnel on duty to supervise by random inspection, read and monitor, etc.

The Company organized its employees to participate in garbage classification learning session, organized knowledge lectures, knowledge competitions, and implemented the "dual registration" mechanism according to the requirements of the Party Committee Organization Department, requiring party members and employees to participate in community-organized garbage classification activities for no less than 2 hours per month.







c. Epidemic prevention and control

In 2020, the Company showed the responsibilities of a state-owned enterprise, and supported the frontline of the battle against the epidemic. As a supplier of emergency supplies, the Company strongly supported the frontline workers of the battle against the epidemic. During the epidemic, the blood bank was in a hurry. When receiving the Company's voluntary blood donation initiative, employees from various departments enthusiastically signed up, and eventually 7 employees completed the blood donation task. The majority of party members actively participated in supporting the community and the front line of village epidemic prevention and control, and many of them were praised and affirmed by the community, village or local government, each glory deed radiated light in Jingcheng.



During the Spring Festival, the Company responded to the initiative of "staying in the city of residence for CNY" with practical actions and contributed to the prevention and control of the epidemic. Tianhai Industry, a subsidiary of the Company, launched the 2021 Spring Festival Regards and Warmth Campaign to extend their regards to retired senior management employees through telephone and video call, visits were made and regards were extended to model workers, employees in difficulties, and on-duty employees during the festival. Special care was given to employees from other cities who stayed in Beijing for the New Year, and provided policies and methods to issue "consolation money" for staying in Beijing for the New Year. During the Spring Festival, the Company's labour union meticulously organized and carried out "cloud" walking, online prize contest and other extensive activities, so that the employees who "did not return to their hometown" can also enjoy a Spring Festival with the "CNY spirit". In this special New Year of the Ox, the Company was full of enthusiasm for unity, and at the same time, it also added a warm layer of harmony and friendship.

APPENDIX: CONTENT INDEX TO ESG REPORTING GUIDE

A.	Environmental		
A1	Emissions	General disclosure Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to air and greenhouse gas emissions, discharges into water and land, and generation of hazardous and nonhazardous waste	Fulfilling Green Operational Responsibilities
A2	Use of resources	General disclosure Policies on the efficient use of resources, including energy, water and other raw materials	Fulfilling Green Operational Responsibilities
A3	The environment and natural resources	General disclosure Policies on minimizing the issuer's significant impact on the environment and natural resources	Fulfilling Green Operational Responsibilities
B.	Social		
Β1	Employment	General disclosure Information on: (a) (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, antidiscrimination, and other benefits and welfare	The People-Oriented Principle for Creating Harmonious Labour Relations
B2	Health and safety	General disclosure Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to providing a safe working environment and protecting employees from occupational hazards	Fulfilling Green Operational Responsibilities
B3	Development and training	General disclosure Policies on improving employees' knowledge and skills for discharging duties at work. Description of training activities	The People-Oriented Principle for Creating Harmonious Labour Relations

APPENDIX: CONTENT INDEX TO ESG REPORTING GUIDE



В	Social		
B4	Labour standards	General disclosure Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to preventing child and forced labour	The People-Oriented Principle for Creating Harmonious Labour Relations
B5	Supply chain management	General disclosure Policies on managing environmental and social risks of the supply chain	Creating Value and Contributing to Society
B6	Product responsibility	General disclosure Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to health and safety, advertising, labelling and privacy matters relating to products and services provided and methods of redress	Creating Value and Contributing to Society
B7	Anti-corruption	General disclosure Information on: (a) the policies; and (b) compliance with relevant laws and regulations that have a significant impact on the issuer relating to bribery, extortion, fraud and money laundering	Creating Value and Contributing to Society
B8	Community investment	General disclosure Policies on community engagement to understand the needs of the communities where the issuer operates and to ensure its activities take into consideration the communities' interests	Creating Value and Contributing to Society