

(Incorporated under the laws of the Cayman Islands with limited liability) Stock Code: 1378

# ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT







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#### **ABOUT THIS REPORT**

This report is the Environmental, Social and Governance Report ("**ESG Report**" or the "**Report**") of China Hongqiao Group Limited (the "**Company**") and its subsidiaries (collectively referred to as "**China Hongqiao**", the "**Group**" or "**We**"), which provides detailed information on the various works of China Hongqiao in full implementation of the concept of sustainable development and fulfillment of corporate social responsibility in 2021. For details of corporate governance, please refer to the Corporate Governance Report set out in the 2021 Annual Report of the Group.

#### REPORTING SCOPE

The Report focuses on the environmental and social performance of the aluminum product manufacturing and sales business of China Hongqiao during the period from 1 January 2021 to 31 December 2021 (the "Year"). The aluminum product manufacturing and sales business is the core business and the main source of revenue of the Group. As only a small part of the green primary aluminum operation of China Hongqiao in Yunnan Province is put into operation currently, such business is not included in the scope of this Report. The Group will consider including it into the reporting scope gradually according to the progress of its commissioning. The key performance indicators ("KPIs") disclosed in this Report is based on the manufacturing bases of the Group in Shandong Province, the People's Republic of China (the "PRC") (data set out in Appendix I).

#### REPORTING FRAMEWORK

The Report has been prepared in accordance with the Environmental, Social and Governance Reporting Guide under Appendix 27 to the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited (the "Stock Exchange") and in compliance with the "mandatory disclosure" and the "comply or explain" provisions thereof. Unless otherwise specified, currency units in this Report are denominated in Renminbi.

#### **REPORTING PRINCIPLES**

The content of the ESG Report is determined based on the stakeholder engagement and materiality assessment process, which includes identifying ESG-related issues, collecting and reviewing the management and stakeholders' opinions and suggestions, assessing the relevance and materiality of the issues and preparing and validating the information reported. The ESG Report covers all key issues that are concerned by various stakeholders. For details of the materiality assessment process, please refer to the section headed "Materiality Assessment" of this Report.

The ESG Report discloses the applicable quantitative KPIs in the Environmental, Social and Governance Reporting Guide set out in Appendix 27 of the Rules Governing the Listing of Securities on the Stock Exchange so that stakeholders are able to have a comprehensive understanding of the Group's ESG performance. Information of the calculation standards, methodologies, assumptions and references used in the calculation related to these quantitative KPIs are set out in relevant sections. In addition, in order to facilitate comparison of the ESG reports of different years, the Group has adopted consistent reporting and calculation methodologies as far as reasonably practicable. For any changes in methodologies, the Group has also presented and explained in detail in corresponding sections.

#### INFORMATION AND FEEDBACK

For detailed information about the work of the Group in environmental protection, social responsibility and corporate governance, please refer to our official website (www.hongqiaochina.com). The Group values your opinions on the Report. If you have any comments or suggestions, please feel free to email us via zghqesg@hongqiaochina.com.

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#### **CHAIRMAN'S STATEMENT**



Mr. Zhang Bo, Chairman of the Board

At present, global issues such as climate change, pandemic prevention and control, and geopolitics have brought unprecedented impact on human society and the world economy. At the same time, although China has entered a stage of high-quality development, the domestic development remained imbalanced and lacked innovation. As a result, the complicated and ever-changing development environment both at home and abroad has brought about opportunities as well as higher requirements for corporate development.

As one of the world's largest aluminum manufacturers, China Hongqiao has continued to deepen its profound connotation of "serving the country and benefiting the people" with green and sustainable development as its guiding principle. While ensuring a steady increase in staff income and a more comprehensive multilevel protection system, China Hongqiao has actively participated in the implementation of major national strategies such as the "Belt and Road" construction, rural revitalisation and common prosperity, and contributed to various charitable activities in order to care for people's livelihood and contribute to the society. With this ESG Report, the Group hopes to demonstrate to the public that China Honggiao is committed to taking on greater social responsibility and creating value for its stakeholders and the society as a whole while maintaining stable and healthy development.

The year 2021 was not only the first year of China's "14th Five-Year" Plan, but also a year in which the Group accelerated the transformation from old to new dynamics and achieved comprehensive high-quality development. During the Year, the Group actively responded to China's goals of "carbon peak and carbon neutrality" ("dual carbon"), and has continued to achieve new results in various aspects of green and low carbon development:

- I. Optimizing energy structure. During the Year, the Group steadily and orderly accelerated the construction of the Yunnan green aluminum innovation industrial park by shifting 2.03 million tonnes of aluminum capacity to Yunnan Province, making full use of hydro-power and photovoltaic power in Yunnan Province, forming a green electricity supply pattern with multiple energy sources, which reduced coal consumption and increased the proportion of green energy constantly. By adhering to the principle of "creating golden mountains while retaining green hills", the Group has conducted in-depth research and comprehensive planning since the beginning of the park's construction, and adopted an integrated ecological model of production, agriculture and forestry to design and build the park, helping to reduce carbon emissions through forest carbon sinks, and promoting forestry's income to increase and alleviate poverty. The project also provided around 12,000 jobs in Yunnan Province, increasing the proportion of local industrial workers and reducing the number of empty nesters and left-behind children, thereby promoting local economic and social development and further alleviating industrial poverty.
- II. Optimizing industrial structure. In order to fully utilize the advantages of aluminum as a green metal, such as lightweight, recyclable and non-polluting, the Group actively promoted the "use of aluminum instead of steel and wood" and the "use of aluminum to save copper", and accelerated the development of aluminum lightweight auto sheets and automotive components, aluminum foam and other intensive processing industries to lead the expansion of the application and consumption of aluminum. During the Year, the Group's lightweight base, which was built according to the strategy of "Three New and One High" materials with the objective of developing core technologies for automotive lightweighting and vehicle manufacturing, was put into production.
- III. Strengthening technological transformation. During the Year, the 600kA aluminum production line applied by the Group in the Yunnan Green Aluminum Innovation Park is the most technologically advanced electrolytic cell in the world, with all indicators far better than the "Emission Standard of Pollutants from Aluminum Industry" and is at the leading international level. In addition, the Group has increased its investment in technological innovation, and cooperated with national research institutions to further increase the technological content of the aluminum industry.



- IV. Developing circular economy. The Group insisted on vigorously developing green re-cycling industries such as secondary aluminum and waste resourcization, building a closed-loop aluminum waste recycling system with high efficiency and comprehensively enhancing the level of recycling of aluminium resources. During the Year, the Group accelerated the construction of the Sino-German Hongqiao Scholz Circular Technology Industrial Park project in collaboration with the German-based Scholz Group, and the installation of the first aluminum scrap recycling production line was completed by the end of 2021. At present, the production line of the secondary aluminum plate casting aluminum alloy project has commenced trial production, and the target production capacity in 2022 is about 60,000 tonnes.
- V. Promoting the low-carbon transformation of the industry. With the strengthening of the global concept of green development, the Group joined the Aluminium Stewardship Initiative (ASI) this Year to accelerate the pace of achieving carbon neutrality and sustainable development, promote responsible production of aluminum and establish close cooperation with other international partners, with a view to making positive contributions to the low-carbon transformation of the aluminum industry in China.

During the Year, the Group was awarded a number of industry and international recognition awards for its green transformation and energy saving technology upgrade by leveraging its core competencies, including: Shandong Weiqiao Aluminum & Power Co., Ltd. ("Weiqiao Aluminum & Power"), a subsidiary of the Company, successfully passed the National Standards Committee's acceptance of its "Demonstration Creation of Energy Saving in Electrolytic Aluminum Production" project; Shandong Hongqiao New Material Co., Ltd. ("Shandong Hongqiao"), a subsidiary of the Company, was awarded the 1st batch of provincial-level green factories and was included in the list of state-level green factories; the Republic of Indonesia ("Indonesia") alumina project was awarded the "ASEAN Coal Award 2021 for Industry Application of Clean Coal Technology in the Medium Industrial Category" from the ASEAN Centre for Energy.

In addition to fulfilling its direct corporate responsibilities in employment, taxation and environmental protection, China Hongqiao has also participated in a wide range of charitable activities to care for different sectors of the community. During the Year, the Group supported the development of education with the charity foundation and strengthened the exchange and cooperation with high-end research institutes, establishing teaching scholarship in a number of universities such as the University of Chinese Academy of Sciences and Central South University to provide maximum support for the transformation of research results. In addition, the Group continued to organize and promote the "Weiqiao Rainbow Homes" charity activities in the area of education and poverty alleviation. Since 2017, the Group has built 21 "Weiqiao Rainbow Homes" for children left behind in poor areas such as Heze and Linyi in Shandong Province and Yanshan and Deqin in Yunnan Province to meet their living and learning needs. The activities have benefited more than 20,000 children so far. At the same time, the Group also actively organized staff visits to elderly homes. A team of volunteers, comprising a number of staff representatives, visited the Yangxin County Yangcheng Pension Service Center (陽信縣陽城養老服務中心) in Binzhou, Shandong Province, bringing care and companionship to the elderly in the center on a number of occasions. During the Year, the Group also donated RMB40 million to flood-affected areas in Henan Province and Shanxi Province, demonstrating its corporate responsibility and commitment.

During the Year, the Group continued to implement the management principles of "people-oriented" and "family building" by attaching great importance to the development of employees and building a culture of treating the Company as a family. In addition to providing different types of pre-employment and on-the-job knowledge training to our employees on a regular basis to give them more room to bring their values into play, the Group also organized various competitions and activities to create a harmonious and healthy working environment for our employees, so that their sense of belonging and happiness index grew along with the constant rise in their income. In addition, the Group has further strengthened our support for employees with financial difficulties and continued to carry forward our corporate tradition of "ensuring housing for employees, medical services for the illness, pension insurance for the retired and education for their children".

Looking ahead, the Group will continue to embrace the dual-carbon strategic goals of China by proactively fulfilling the carbon reduction responsibilities, continuing to optimize our energy structure, striving to promote green, circular and low-carbon development, devoting all our efforts to achieving organic integration of ecological protection and corporate development, and building a brand new image of green development of Chinese enterprises in the international community so as to continue to make greater contributions to the realization of the dual-carbon strategic goals of China and to the fight against global climate change while striving to give impetus to sustainable economic, social and environmental development.

**Zhang Bo**Chairman of the Board



#### **ABOUT CHINA HONGQIAO**

#### **CORPORATE PROFILE**

China Hongqiao Group Limited was incorporated in the Cayman Islands, with shares of which listed on the Main Board of the Stock Exchange in 2011, principally engaged in the manufacturing and sales of molten aluminum alloy, aluminum alloy ingots, aluminum busbars, aluminum alloy processing products and alumina products as a global leading aluminum product manufacturer. After years of hard work, the Group has basically formed the operation pattern of the whole upstream and downstream industrial chain of bauxite mining, aluminum products, deep processing and sales of aluminum products, and achieved remarkable economies of scale.

During the Year, China Hongqiao has 11 production bases in Zouping, Weiqiao, Bincheng district, Huimin, Yangxin, Beihai, Zhanhua, Boxing, Yunnan Province, Indonesia and Guinea, with an annual operation capacity of 6.459 million tonnes of aluminum products. In 2021, the Group's output of aluminum alloy products was approximately 5.633 million tonnes, and the output of aluminum alloy processing products was approximately 672,000 tonnes.

Downstream customers of China Hongqiao's aluminum alloy include CITIC Dicastal, the world's largest aluminum wheel manufacturer; Bohai Piston, the largest piston manufacturer in Asia; Shandong Innovation Group, the largest aluminum alloy manufacturer in the PRC; BAIC Group and other renowned domestic and overseas enterprises. Intensive processed aluminum products are widely recognised by domestic and overseas can manufacturers, which include more than 100 customers such as Baosteel Packaging, CPMC, ORG Packaging, Shengxing Group, United Can and Ball Corporation. In recent years, the intensive processing sector has undergone rapid development. After years of market development, our can material products have taken a relatively significant share in the domestic and overseas markets. With stable and reliable quality, the market has promising prospects.





#### MANAGEMENT PHILOSOPHY

China Hongqiao upholds its core value of "serving the country and benefiting the people", which is taken it as its driving force and mission to facilitate economic development, provide job opportunities, increase income for farmers and build a harmonious society, in a bid to contribute to the local economic and social development. Meanwhile, China Hongqiao responds positively to the PRC's strategic planning of the "Belt and Road Initiative" by promoting international energy production cooperation in the Well Harvest Winning Alumina Project, which has commenced production in Indonesia, and the joint venture bauxite project in Guinea. This not only demonstrates the influence of the PRC's enterprises in the global market, but also boosts the local economic development and the construction of infrastructure, which are highly praised by the local government and residents.

With an aim to establish a "resource-saving and environmentally-friendly" enterprise, China Hongqiao has made every effort to achieve sustainable development by setting up an environmentally-friendly, green and efficient production model. In recent years, China Hongqiao has achieved remarkable results in environmental protection by promoting the transformation of environmental protection facilities, eliminating obsolete production capacity, developing and introducing advanced production equipment, and has commenced standardized, scientific, informatized and professional management in its operation.

#### **ESG RESPONSIBILITY MANAGEMENT**

#### THE BOARD'S STATEMENT

The Group believes that sound ESG governance principles will increase its investment value and bring long-term returns to its stakeholders. In order to establish an appropriate and effective ESG management and control system, the Board has formulated specific duties and responsibilities to directly supervise the Group's ESG related affairs and work. The Board is responsible for formulating and regularly overseeing the progress and quality of the ESG work within the Group to ensure that the various measures are implemented and completed. At the same time, the Board is also responsible for conducting an annual review of the ESG related information, and evaluating the contents and quality of the Report. The Board endeavours to build a communication platform between the Group and major stakeholders to ensure the flow of information.





In addition, the Board has engaged an independent consultant to assist in the management of the Group's ESG affairs, to perform data collection and analysis and to provide recommendations on the improvement of ESG performance. The consultant also assists the Board in the collection and analysis of the Group's stakeholders' views on ESG matters and conducts a materiality assessment to identify the Group's material ESG issues. The materiality assessment is based on questionnaires for collection of the views of stakeholders, including the directors and consolidation of the material ESG issues of the industry. Stakeholders' concern towards various ESG issues are scored and ranked to identify the material issues. The Board ultimately acknowledges and endorses the results of the assessment.

In order to effectively lead the Group's ESG process, the Board monitors the work of each department on an on-going basis to ensure that they work closely together to achieve the sustainable development objectives of compliance operation and fulfilling social responsibility. The Board also reviews the implementation of the relevant work annually in the light of the Group's objectives and will propose and discuss the Group's ESG performance and progress at meetings when necessary.

#### STAKEHOLDER ENGAGEMENT

The Group deeply understands the close relationship between stakeholders and the business development of the Group. The preparation of the Report, with the participation of different stakeholders, has prompted us to be more informed about the Group's current management on the environmental and social levels. The information we collected is both a summary of relevant environmental and social work performed by the Group during the Year and the basis of formulating our strategies for short-term and long-term sustainable development.



In order to understand the stakeholders' opinions and demands, the Group communicated with them through various channels so as to review and enhance our performance in environmental, social and corporate governance and meet their reasonable demands.

		Communication and
Stakeholders	<b>Expectations and Requirements</b>	Response Methods
Government and regulatory authorities	<ul> <li>Compliance with the national policies and laws and regulations</li> </ul>	<ul> <li>Regular submission of information</li> </ul>
	<ul> <li>Promotion of the local economic development</li> </ul>	<ul> <li>Regular communication with regulatory authorities</li> </ul>
	Creation of job opportunities	Special report
	<ul> <li>Tax payment on time and in full</li> </ul>	Inspection and supervision
	Production safety	<ul> <li>Teleconferences and video conferences</li> </ul>
Shareholders	Investment returns	General meeting
	<ul> <li>Operation in compliance with laws and regulations</li> </ul>	<ul> <li>Announcement by the Company</li> </ul>
	Increase of corporate value	E-mail, telephone and website of the Company
	<ul> <li>Transparency of information and effectiveness of communication</li> </ul>	Special report
		On-site inspection
Partners	Integrity management	<ul> <li>Review and assessment meeting</li> </ul>
	Fair competition	Business communication
	<ul> <li>Fulfillment of contracts in compliance with laws</li> </ul>	Communication and seminars
	<ul> <li>Mutual benefit and win-win cooperation</li> </ul>	Discussion of cooperation
Customers	Quality products and services	<ul> <li>Customer service center and hotline</li> </ul>
	Health and safety	Customer opinion survey
	Fulfillment of contracts in compliance with laws	Customer communication meeting
	<ul> <li>Integrity management</li> </ul>	<ul> <li>Social media platforms</li> </ul>
		Return visits
		<ul> <li>Visits</li> </ul>



		Communication and
Stakeholders	<b>Expectations and Requirements</b>	Response Methods
Environment	<ul> <li>Fulfillment of emission standards</li> </ul>	<ul> <li>Communication with local environmental protection departments</li> </ul>
	<ul> <li>Energy conservation and emission reduction</li> </ul>	<ul> <li>Communication with local residents</li> </ul>
	<ul> <li>Efficient use of water resources</li> </ul>	Report submission
	Ecological protection	<ul> <li>Investigation and inspection</li> </ul>
		Real-time online monitoring
Industry	Setting up industry standards	<ul> <li>Communication with local labor departments</li> </ul>
	<ul> <li>Promotion of industry development</li> </ul>	<ul> <li>Participation in industry forums</li> </ul>
		<ul> <li>Visits and inspections with industry peers</li> </ul>
Employees	<ul> <li>Safeguarding rights and interests</li> </ul>	<ul> <li>Internal publication and intranet of the Company</li> </ul>
	Occupational health	<ul> <li>Employee representatives meeting</li> </ul>
	Remuneration and benefits	Democratic forums
	Career development	<ul> <li>Employees mailbox</li> </ul>
	Employee caring	<ul> <li>Employee meetings</li> </ul>
		<ul> <li>Training and workshop</li> </ul>
The community and the public	<ul> <li>Improvement of community environment</li> </ul>	<ul> <li>Communication with the community</li> </ul>
	<ul> <li>Participation in charitable activities</li> </ul>	Website of the Company
	<ul> <li>Openness and transparency of information</li> </ul>	Announcements issued by the Company
		Interviews with media
		<ul> <li>Social media platforms</li> </ul>

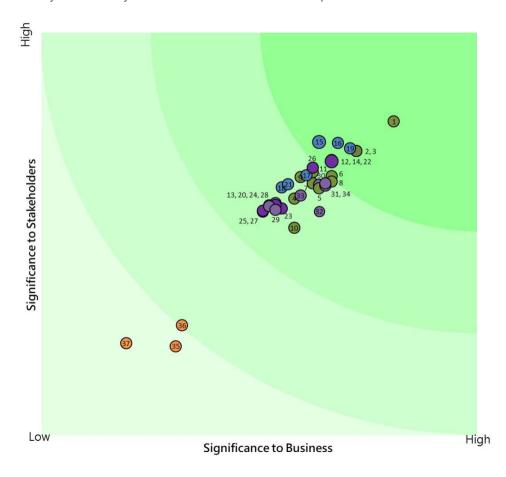


#### MATERIALITY ASSESSMENT

In preparing the Report, China Hongqiao has entrusted an independent third-party consultant to conduct a materiality assessment in a fair and equal manner. The materiality assessment is implemented in three main phases:

- (i) To identify 37 potentially material issues that may affect the Group's business or stakeholders at environmental, social and governance levels based on relevant national and local standards and policies, industrial features and the Group's own development;
- (ii) To invite internal and external stakeholders (including employees, management, directors, customers, suppliers and the community) to complete online questionnaires so as to collect and examine their awareness of each of the issues; and
- (iii) To analyze over 1,800 eligible questionnaires and form a two-dimensional matrix of "Importance to the Group's Business" and "Importance to Stakeholders" to determine the priorities for potential material issues.

Below is the materiality matrix analyzed based on the results of the questionnaires.





	ironment and ources		oloyment and or Practices	Орє	erating Practices		nmunity estment
1.	Environmental compliance	15.	Employment compliance	22.	Operational compliance	35.	Public charity
2.	Exhaust management	16.	Remuneration and benefits	23.	Managing environmental risks of supply chain	36.	Promotion on social development
3.	Wastewater management	17.	Working hours and holiday entitlement	24.	Managing social risks of supply chain	37.	Poverty alleviation
4.	Noise management	18.	Diversity and equal opportunities of staff	25.	Procurement practices		
5.	Greenhouse gas emissions	19.	Occupational health and safety	26.	Quality management		
6.	Waste management	20.	Employee training and development	27.	Customers' health and safety		
7.	Energy use	21.	Prevention of child labor and forced labor	28.	Responsible marketing and promotion		
8.	Use of water resources			29.	Customer services management		
9.	Green energy projects			30.	Protection of intellectual property		
10.	Use of raw and packaging materials			31.	Research and development		
11.	Soil pollution management			32.	Information safety		
12.	Ecological protection			33.	Customers' privacy protection		
13.	Responding to climate change			34.	Anti-corruption		
14.	Prevention and handling of environmental incidents						



By analyzing the results of questionnaires, the Group identified 10 material issues which are disclosed in detail in the Report.

Aspects	Material Topics	Corresponding Sections
Environment and resources	1. Environmental compliance	Promoting Green Production
	2. Exhaust management	Prevention and Control of Pollution
	3. Wastewater management	Prevention and Control of Pollution
	6. Waste management	Waste Management
	12. Ecological protection	Prevention and Control of Pollution
	<ol> <li>Prevention and handling of environmental incidents</li> </ol>	Prevention and Control of Pollution
Employment and labor	15. Employment compliance	Recruiting Talents
practices	16. Remuneration and benefits	Recruiting Talents : Caring for Employees
	19. Occupational health and safety	Occupational Health and Safety
Operating practices	22. Operational compliance	Supply Chain Management

#### **UN Sustainable Development Goals**

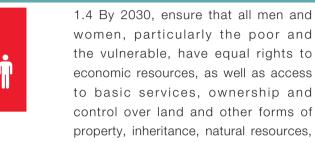
The Group believes that sustainable development is the development direction of an enterprise. We are committed to achieving environmental, social and economic benefits, as well as corporate responsibility. To achieve this vision, the Group takes into account sustainability elements in its governance approach, business decisions and in all aspects of its operations. In addition, we join hands with our stakeholders, including customers, communities and suppliers, to achieve our respective sustainable development goals.

In response to the UN Sustainable Development Goals initiative, the Group has identified 12 sustainable development goals that are most relevant to the Group and we are committed to contributing and exerting a positive influence on these areas. The table below sets out all the relevant targets and summarises the positive benefits generated in each indicator during the Year.



# UN Sustainable Development Goals

#### Summary of specific goals



1.A Ensure significant mobilisation of resources from a variety of sources, including through enhanced development cooperation, in order to provide adequate and predictable means for developing countries, in particular least developed countries, to implement programmes and policies to end poverty in all its dimensions.

appropriate new technologies and

financial services, including microcredit.

#### **Positive impacts**

[Adhering to People-Oriented Governance - Caring for Employees]The Group's administration and human resources department carries out regular surveys and visits to employees in difficulties, and takes the initiative to understand the living situation of employees in difficulties, their family relationships and financial burdens. Assistance was provided to employees who are suffering from illnesses, or whose families encounter misfortunes or difficulties in life. During the Year, the Group made a total relief payment of RMB78,000, benefiting 33 families in need, helping them get out of their predicament as soon as possible.

[Caring for Social Well-Being - Overseas Contributions The Group has provided tens of thousands of jobs for and brought advanced agricultural technology and other technology to Guinea and Indonesia, thereby promoting local economic development. The successful operation of the Group's projects has attracted and driven more enterprises and investors into the local area to engage in development, infrastructure construction, agriculture and other fields, giving impetus to the local economic development. By leveraging China's advanced agricultural facilities, farming techniques and management experience, the Group seeks to develop a scalable agricultural facility and farming model as soon as possible, based on the unique climatic conditions of Guinea, to cultivate a number of reproducible vegetable varieties and to bring in a new breed of local agricultural workers who can manage the fields independently, thereby boosting local economic development.



# UN Sustainable Development Goals

#### Summary of specific goals

#### **Positive impacts**



3.4 By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being.

[Occupational Health and Safety]The Group has developed a comprehensive and detailed safety management system and accident emergency plan, formulated monthly health and safety inspection work plans, conducted safety education activities and formulated pandemic prevention plans to safeguard the occupational safety and health of workshop staff.

[Occupational Health and Safety]The Group actively responds to the pandemic and ensure the health and safety of its employees by conducting safety and prevention training for occupational disease, technical renovation and safe production management.



4.7. By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development.

4.A. Build and upgrade education facilities that are child, disability and gender sensitive and provide safe, nonviolent, inclusive and effective learning environments for all.

[Caring for Social Well-Being - Community Welfare, Overseas Contributions]The Group actively participated in the Weigiao Rainbow Home (魏橋彩虹之家) project sponsored by the Beijing Rainbow Charity Foundation (北京彩虹公益基金 會). During the Year, Weigiao Rainbow Homes has been committed to the responsibility of aesthetic education in rural areas, providing diversified activities and counselling for left-behind children through aesthetic education programmes, community activities and school culture. Overseas, the Group conducts activities such as donating to schools and establishing schools in Guinea and Indonesia, to promote the development of local education.

[Adhering to People-Oriented Governance – Caring for Employees]The Group has continued to participate in the "Sany Student Aid" charity programme, visited needy students in the towns, street offices and families of our employees with financial needs in Zouping City before the Spring Festival of each year and delivered grants to them, helping them complete their studies.



# UN Sustainable Development Goals

#### Summary of specific goals

#### **Positive impacts**



8.2 Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors.

8.7. Take immediate effective measures to eradicate forced labour, end modern slavery and human trafficking and secure the prohibition and elimination of the worst forms of child labour, including recruitment and use of child labour, and by 2025 end child labour in all its forms.

8.8. Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants,

and those in precarious employment.

[Caring for Social Well-Being – Overseas Contributions]SMB Winning Consortium has more than 21,500 project staff directly or indirectly involved in Guinea, and the number of the subcontractors and merchants who specially served SMB Winning Consortium reached over 4,000, and more than 75,000 job opportunities (including indirect employment) have been cumulatively created in Guinea, hence driving the economic growth of Guinea.

[Adhering to People-Oriented Governance - Recruiting Talents and Talent Cultivation] - The Group strictly prohibits the employment of child labour and forced labour, provides various training to employees on a regular basis, protects the rights and interests of employees, and fosters a strong atmosphere of respect for labour, practical work and creativity.



9.4 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities.

[Pursuing Excellence in Quality]Quality management and innovative research – Through continuously upgrading its production technology and equipment through innovative R&D and encouraging staff members to participate in minor reforms and activities related to tackling key problems of QC (Quality Control) thoroughly, the Group strives to ensure stability and enhancement of product quality.

[Promoting Green Production - Energy Conservation and Consumption Reduction] The Group regards energy-saving transformation as an important part in its production management system. In addition to requiring all production units to attach great importance to energy conservation, it also urges all employees to actively participate in energy-saving technological transformation so as to enhance the utilization efficiency of energy and resources.

#### UN Sustainable Development Goals

#### Summary of specific goals

#### **Positive impacts**



10.3 Ensure equal opportunity and reduce inequalities of outcome, including by eliminating discriminatory laws, policies and practices and promoting appropriate legislation, policies and action in this regard.

[Adhering to People-Oriented Governance - Recruiting Talents]The Group firmly opposes gender discrimination. Employees, regardless of gender, are treated equally and the distribution of work is implemented according to actual needs. The Group also protects the lawful rights and interests of female employees according to law and complies with the relevant laws and regulations to provide female employees with benefits during pregnancy, delivery and lactation, including arranging breastfeeding time for employees returning to work after delivery.



11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons.

[Caring for Social Well-Being – Overseas Contributions] In order to facilitate the development of local villages, SMB Winning Consortium repaired community roads of more than 22 kilometres in total during the Year, and built a number of underpasses along the railway lines to ensure the safety of traffic and property.



12.5. By 2030, significantly reduce waste generation through prevention, reduction, recycling and reuse.

12.7 Promote public procurement practices that are sustainable, in accordance with national policies and priorities.

[Promoting Green Production – Waste Management] The Group actively reduces the volume of waste disposal by recycling of waste materials. Through the use of dual chamber furnace process to melt the waste with impurities, recycled materials, wastes collected from the market and/ or clean materials, the Group recycles aluminum scraps generated during the production process so as to reduce industrial waste.

[Pursuing Excellence in Quality - Supply Chain Management] The Group also advocates green procurement by purchasing or selecting products that have the least impact on the environment wherever possible, for example, products that comply with clean technology production or help reduce water consumption. Moreover, the Group also adopts the principle of conducting procurement from nearby suppliers to reduce transportation costs and carbon emissions caused during transportation.



### UN Sustainable Development Goals

#### Summary of specific goals

#### **Positive impacts**



13.3. Improve education, awareness-raising and human and institutional capacity on, climate change mitigation, adaptation, impact reduction and early warning.

[Promoting Green Production - Energy Conservation and Consumption Reduction, Responding to Climate Change] The Group proactively implemented the "3060" dual-carbon commitment national strategic target by promoting the active participation of staff in energy conservation and emission reduction, carrying out energy conservation and emission reduction related technological transformation, and managing and supervising the entire production process to achieve the purpose of energy-saving and energy efficiency enhancement.

[Pursuing Excellence in Quality – Supply Chain Management]The Group adopts the principle of conducting procurement from nearby suppliers to reduce transportation costs and carbon emissions caused during transportation.



14.1. By 2025, prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris and nutrient pollution.

15.4 By 2030, ensure the conservation of mountain ecosystems, including their biodiversity, in order to enhance their capacity to provide benefits that are essential for sustainable development.

[Promoting Green Production - Prevention and Control of Pollution, Waste Management] The Group formulates and monitors the implementation of our internal environmental protection policies and guidelines, establishes environmental risk contingency plans, organizes training and emergency drills on environmental incidents, regularly inspects the Group's production facilities and pollutants discharge facilities and conducts environmental performance appraisal for each production unit to ensure that exhaust gas, wastewater and solid waste are properly treated and disposed of to reduce the harm to underwater and terrestrial organisms.



17.16 Enhance the global partnership for sustainable development, complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources, to support the achievement of the sustainable development goals in all countries, in particular developing countries.

[Caring for Social Well-Being – Overseas Contributions] While participating in the development of Guinea and Indonesia, the Group has also been committed to promoting the economic and social development of Guinea and Indonesia, making an ongoing contribution to local employment, education, transportation, medical welfare, leisure and sustainable development projects of the community, and creating a new mode for multiparty cooperation and mutual benefit in overseas mining development.



#### **OCCUPATIONAL HEALTH AND SAFETY**



During the Year, in the face of the pandemic, the economy and people's livelihood around the world have been seriously affected. The Group recognises that in order to minimize the impact of the pandemic on its business, it must first adequately protect the health and safety of its employees and create a safe and healthy working environment, so that its employees can work at ease and safely. Adhering to the production safety philosophy of "comprehensive management with priority of safety and emphasis on prevention", while facing the impact of the pandemic, the Group continued to strictly enforce its production safety management and employee occupational health management to minimize personal injury and economic loss in the course of production and operation.

#### **RESPONDING TO THE PANDEMIC**

In order to cope with the pandemic and comprehensively carry out pandemic prevention and control, the Group has formulated and implemented the COVID-19 Emergency Plan ("**Emergency Plan**"), which serves as a blueprint for the prevention and control of pandemic, to ensure the health and safety of employees and the safe and steady production. In accordance with the requirements of the Emergency Plan, the Group has set up a pandemic emergency handling team to keep abreast of the development of any emergency in a timely manner, deploy various emergency rescue forces and supplies, and make decisions on the emergency response after the emergency rescue has been activated, so as to fully direct the emergency rescue work.

In order to fully protect the health and safety of our employees and to prevent the outbreak of the pandemic within the factory area, the Group has taken various steps to enhance the health protection for employees in the factory area:

#### I. Enhance publicity and education to increase awareness

Work meetings on the prevention and control of the pandemic were held at different levels of the Group. Explanations were made to employees by using the pre-shift and post-shift briefings to enhance their awareness of the pandemic and lead the employees in learning the prevention and control of the pandemic.

#### II. Employee health protection

Strictly implemented personal hygiene measures such as body temperature measurements and wearing surgical masks, and carried out regular disinfection of factory areas and non-operating premises such as dormitories, canteens and toilets to ensure environmental hygiene. In addition, external personnel and construction personnel were restricted in a specific area, and no outside personnel were allowed to enter or leave the factory privately to prevent the spread of the virus from outside.

#### III. Production emergency measures

Various departments cooperate closely with each other to ensure the stable transportation of raw and auxiliary materials for production and an adequate supply of labour protection gears, and ensure that the casting of molten aluminum alloy can meet any abnormalities in the downstream customers.

#### IV. Logistics and secured supplies

The Group properly arranged the reserve of various kinds of materials, ensured adequate supply of materials when the number of employees staying in the factory dormitories increase substantially, and inspected the water and electricity supply condition of the dormitories to ensure that the employees can stay in the dormitories normally.



Based on the principle of "not believing and not spreading rumours", the Group attached great importance to the prevention and control of the pandemic, and with the determination to fight the pandemic and the concerted efforts of its employees, China Hongqiao has successfully weathered the difficult moment of the COVID-19 outbreak.



Disinfecting workshops



Providing pandemic prevention and disinfection materials

#### PRODUCTION SAFETY MANAGEMENT

In accordance with laws and regulations such as the Work Safety Law of the PRC, the Special Equipment Safety Law of the PRC, the Interim Provision on the Identification and Treatment of Hidden Perils of Work Safety Accidents, the Provisions on Safety Training of Production and Operation Entities and the Regulations on Safety Production in Shandong Province, the Group has developed a comprehensive and detailed safety management system and accident emergency plan.

In order to continuously monitor whether the working environment and conditions of each workshop are in compliance with the Group's occupational safety and health standards, the Group has formulated a monthly health and safety inspection plan, which carries out various types of special inspections on a monthly basis to prevent any health and safety-related accidents, and to safeguard the occupational safety and health of employees in the workshops. The monthly inspections during the Year focused on the Group's factory areas, such as the special safety management inspection of non-operating areas such as canteens and dormitories in January; special inspection of outsourced construction and demolition sites in March; special inspections of electrical preventive test in May; special inspections of fire and explosion protection for each unit in October, to ensure safety in the factory areas and to provide a safe working environment for employees. In addition, the Group is committed to modifying and upgrading the machinery and equipment in the workshop with a view to strengthening occupational safety and health protection in the working environment.



#### Case studies - Technical transformation for workshop machinery safety

In order to reduce the workload of employees and put an end to the safety hazards faced by employees when dealing with pressure drop, the Group made mechanical polishing devices with aluminum guide rod surface, and introduced laser polishing devices to remove oxide skin and impurities during the Year. Such reform greatly improved the automation level of the cleaning process of the aluminum guide rods and provided strong guarantee for the process operation of electrolysis cells. Similar technical transformation can effectively reduce the occurrence of accidents and ensure the health and safety of employees.

Carrying out safety technical modifications for the cleaning process of aluminum guide rods



High bar brushing machine



Laser washing machine



Guide bar cleaning machine

The Group attaches great importance to providing employees with a safe and healthy working environment while actively providing them with various safety training opportunities to enhance their awareness of protecting themselves and others. The Group sets monthly training topics and targets in the safety training programme, and provides monthly training on safety and health protection to its employees in different areas, such as explanation of safety production liability, emergency training on various contingencies, training on special equipment, occupational disease prevention measures and handling training.



#### **OCCUPATIONAL HEALTH MANAGEMENT**

The Group strictly abides by relevant laws and regulations including the Work Safety Law of the PRC, the Law of the PRC on the Prevention and Control of Occupational Diseases and the Provisions on the Supervision and Administration of Occupational Health at Work Sites, to implement the management work regarding employees' occupational health during the production process, which includes warning and notification of occupational disease hazards, occupational disease prevention education, maintenance of protective equipment and facilities, monitoring and evaluation of hazards, reporting of hazard incidents and emergency rescue, and so on.



Fire drill training



Occupational hygiene and health training



Safe production education seminar



Safe production education seminar



The Group provides employees with complete and professional personal protective equipment such as helmets, safety goggles, earplugs, anti-high temperature protective shoes, insulated shoes and gloves, acid-resistant gloves, dust masks and gas masks and strictly supervises the use of protective supplies and the operation and protective functions of protective devices. In addition, the Group regularly disinfects the production area and production equipment to prevent the spread of any infectious diseases in the production area. In order to identify and control various sources of occupational hazards such as air pollutants, dust, noise and radiation, the Group has entrusted a qualified occupational health and technical service agency to test occupational hazards in each production plant regularly. For new recruits or employees exposed to occupational hazards, the Human Resource Department will arrange occupational health checks before and during employment and create health records to monitor the health conditions of employees regularly. Occupational health checks will also be provided for employees when they leave the Group.

#### PROMOTING GREEN PRODUCTION



In recent years, China has attached great importance to the concept of ecological civilization, comprehensively strengthened the protection on ecological environment, promoted prevention and control of pollution, and increased its construction efforts on environmental protection year by year to deepen the ecological protection policies. By always working hard to adhere to the path of green development, as the abiding theme in the aluminum industry, China Hongqiao actively increased investment in environmental protection to build a green electrolytic aluminum enterprise with low consumption, low emission and high input-output ratio, and strived to become a benchmarking enterprise of green environmental protection in the aluminum industry, while promoting the ecological environmental protection and construction of ecological civilization. During the Year, in strict compliance with environmental laws and regulations of the Country and places of operation, China Hongqiao continued to promote green production in the four aspects of prevention and control of pollution, energy conservation and consumption reduction, resource recycling and reusing, and green office. In addition, the environmental management system established and formulated by the Group was certified with ISO14001:2015 by the International Organization for Standardization, demonstrating the Group's commitment to environment protection management which obtained effective results.

#### PREVENTION AND CONTROL OF POLLUTION

The Environmental Protection Department of the Group is responsible for supervising the environmental protection of the Group comprehensively, including formulating and monitoring the implementation of our internal environmental protection policies and guidelines, establishing environmental risk contingency plans, organizing training and emergency drills on environmental incidents, regularly inspecting the Group's production facilities and pollutants discharge facilities, conducting environmental performance appraisal for each production unit and keeping abreast of the latest development of the environment-related regulations and standards in the PRC. The Group also strictly monitors governance and emissions of "three wastes", and integrates environmental protection equipment into its normal production management system. It implements 24-hour real-time supervision of the pollutant discharge standards and operational parameters of environmental protection facilities to ensure the long-term stable operation and fulfillment of standards. The Group has always been reviewing the management system on emissions, improving the processing facilities for emissions, and striving to control the emission of pollution so as to reduce its impact on the surrounding environment.



#### Exhaust Gas Treatment

The Group's emissions of exhaust gas mainly come from power plant boilers and aluminum production. The Group continued to strictly comply with the relevant laws and regulations such as the Law of the PRC on the Prevention and Control of Atmospheric Pollution. The exhaust gas is emitted in compliance with relevant standards after purification in the factory. Real-time monitoring data is uploaded by our automatic monitoring equipment installed on the exhaust emission outlet to the monitoring platform of the local government's environmental protection department so that the exhaust gas emission level of the Group can be monitored remotely and continuously.

Sources of Exhaust Gas	Major Components	Processing Facilities and Processes
Boilers at power plant	Nitrogen oxides	Denitration system: Low-nitrogen combustion + SCR (Selective Catalytic Reduction) process
	Particulates	Dust removal system: High-efficiency electrostatic precipitator + wet dust collector or tubular dust collector
	Sulfur dioxide	Desulfurization system: Limestone-gypsum wet desulfurization and magnesia wet desulfurization
Alumina production	Sulfur dioxide	Desulfurization system: Tannin extract wet desulfurization
	Nitrogen oxides	Denitration system: Low-nitrogen combustion + SNCR (Selective Non-Catalytic Reduction) + SCR process
	Particulates	Dust removal system: Electric-bag composite dust removal
Electrolytic aluminum	Sulfur dioxide	Desulfurization system: Limestone-gypsum
production	Fluoride	wet desulfurization  Dry flue gas purification system: Alumina
	Particulates	adsorption + bag dust capture
Aluminum deep processing production	Emissions from aluminum melting furnace, holding furnace and ingot heating furnace <sup>1</sup>	Emit after disposal by bag filter
	Tiny amount of non-methane hydrocarbon gas produced from hot rolling and annealing process	Collected by gas-collecting hood and emit after disposal by oil fog purifier/spray and fogging + water treatment

<sup>1</sup> The main fuel of such process is natural gas which belongs to clean energy, and does not produce highly concentrated air pollutants.



#### Wastewater Discharge

The wastewater discharged by the Group was mainly from production wastewater and domestic sewage. The Group continues to strictly comply with the relevant laws and regulations such as the Wastewater Pollution Prevention and Control Law of the PRC. The wastewater is processed in the factory for simple pretreatment to meet the requirements of the Water Quality Standards for Discharge to Municipal Sewers (GB/T 31962-2015) as well as the Integrated Wastewater Discharge Standard for Basin Part 4: Haihe Basin (DB37/3416.4-2018) and discharged into the local municipal sewage treatment plant through municipal pipelines. The Environmental Protection Department of the Group collects samples from outfalls and performs quality sampling test every month to ensure that the wastewater meets the discharge standards. In addition, the outfalls are equipped with online monitoring system and connected with the local environmental protection departments, and the relevant data is uploaded on a real-time basis.

The Group is committed to the goal of water conservation and recycling. In order to improve water efficiency and prevent water pollution, the Group has continued to implement various measures as follows:

- Wastewater produced from alumina production is fully recycled and reused, attaining zero discharge of wastewater;
- Cooling water used in the casting process is recycled for use in the electrolytic aluminum production process;
- Water discharged from the cooling water tower of the power plant is recycled in priority;
- Water used for spraying and cleaning of vehicles is recycled and used to a certain extent before being applied for coal yard spraying;
- The fluoride in the wastewater from desulphurisation can be reduced by neutralisation, flocculation, sedimentation and pharmaceutical purification, thus enabling the wastewater to be reused after treatment;
- Building rainwater precipitation and decontamination pools in the aluminum plant to reduce the content of pollutants such as alumina powder and fluoride salts in rainwater, thus to avoid the discharge of polluted rainwater and to allow part of the treated rainwater to be reused for production;
- Switching to a square, non-filling cooling tower to improve the cooling effect and reduce water consumption.

During the Year, in order to improve the emergency capability of employees at the sewage treatment station to respond to all kinds of accidents, we held annual emergency drills according to the Environmental Emergency Response Plan for the 200,000 Tonne Annual Output Primary Aluminum Production Line of Shandong Weiqiao Alumina & Power Co., Ltd.(《山東魏橋鋁電有限公司年產20萬噸原鋁生產線突發環境事件應急預案》) formulated and implemented by the Group. We simulated the accident of water quality exceeding standards at the Sewage Treatment Plant No. 2 and held an emergency drill for operation in confined spaces, which strengthened the emergency handling capacity of the environmental protection management personnel and ensured control of environmental protection management. Through this exercise, relevant staff were able to master and familiarize themselves with various emergency handling skills, ensuring that adequate emergency supplies are in place and regular checks are conducted to minimize the impact of accidents on the environment and personnel.



#### Soil Pollution Management

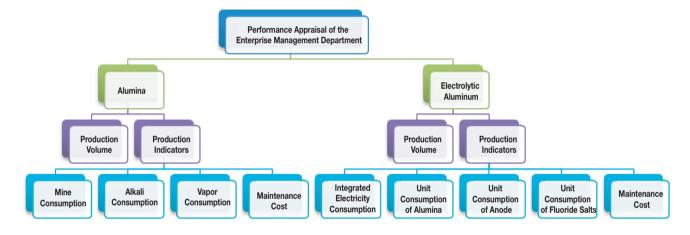
Red mud is a kind of strong alkaline hazardous solid waste generated during the alumina production process of the Group. If the red mud is disposed of improperly, not only the surrounding soil will be heavily polluted, the groundwater and atmosphere will also be affected significantly. In order to prevent the deterioration of the ecological environment caused by red mud and the damage to human health, the Group strictly follows the Regulations on the Prevention and Control of Environmental Pollution Caused by Tailings to conduct prevention and supervision of red mud. The red mud produced is discharged into the red mud storage facility which is under strict leakage prevention and safety management after it is dewatered and filtered. We also set up a control zone around the alumina production facility and the red mud storage facility and a number of groundwater observation wells to monitor whether the red mud has polluted the surrounding environment such as heavily polluting the soil and water. As red mud contains a large number of mineral elements that can be recycled, we recycle the highly magnetic materials by centrifugation and magnetic separation, and make the remaining materials into bricks to be used as roadbeds and building materials. In addition, we also regularly hold emergency drills to simulate the surrounding environment to prevent the spread of red mud in severe weather conditions and enhance the management and control capabilities of red mud.

#### **ENERGY CONSERVATION AND CONSUMPTION REDUCTION**

The Group's energy use target is to strive to reduce energy consumption. With scientific and effective lean management alongside persevering exploration and innovation, in recent years, the Group has made remarkable achievements in saving energy and reducing consumption and has reduced production costs effectively, setting a new model of energy conservation in the industry. Among which, the primary aluminum production line of Shandong Weiqiao Alumina & Power Co., Ltd. (山東魏橋鋁電有限公司) ("Weiqiao Aluminum & Power") is equipped with advanced and reliable technologies and has effectively increased output and energy utilization rate and achieved the environmental goals for energy conservation and emission reduction. In addition, the energysaving standardization management system established by the Group can be integrated into an organic entity through various tasks, including energy-saving assessments, management and control, statistics, monitoring and measurement, so as to achieve the purpose of energy-saving and energy efficiency enhancement. During the Year, the electrolytic aluminum production and energy saving mode of Weigiao Aluminum & Power continued to be listed as a standardized demonstration project by The Standardization Administration of the PRC, making it the only aluminum smelting enterprise selected in the PRC. In the future, Weigiao Aluminum & Power will participate in the revision of energy saving standards, and actively promote advanced energy saving technologies and products. During the Year, Shandong Honggiao was included in the List of Green Factories 2021 by the Ministry of Industry and Information Technology after evaluation and expert verification by the local industry and information technology authorities, which confirmed the Group's efforts and achievements in promoting green manufacturing.



The Group continues to comply with laws and regulations and industry standards regarding energy management, energy measurement and energy consumption quotas, including the Aluminum Industry Standardization Requirements, the Norm of Energy Consumption Units for Products of Aluminum Metallurgical Enterprise (GB 21346-2013) and the Product Energy Consumption Limit for Electrolysis Aluminum Enterprises (DB 37/743-2017). The enterprise management department of the Group is responsible for overseeing the energy conservation and emission reduction work during the production process so as to reduce waste. The enterprise management department organizes training and promotional activities regularly and formulates a monthly quota plan for each production unit and conducts monthly performance appraisals on the fulfillment of indicators of each production unit. In addition, the Group strictly monitors the use of packaging materials for aluminum deep-processing products to eliminate wasteful practices.



#### **Energy-saving Transformation**

The Group regards energy-saving transformation as an important part of its production management system. In addition to requiring all production units to attach great importance to energy conservation, it also urges all employees to actively participate in energy-saving technological transformation so as to enhance the utilization efficiency of energy and resources. During the Year, the Group completed over 300 energy conservation and technology transformation projects, including application of permanent magnet motor technology, failure prediction and predetection of medium-speed coal pulverizers, technical modification frequency converters of circulating pump motors, energy saving projects of evaporation upscale inhibitors, etc., so as to continuously improve environmental protection technologies and maintain ultra-low emissions.



#### Cases studies - Energy-Saving Equipment Upgrading

### Technical modification frequency converters of circulating pump motors





The motor power of circulating pumps with efficiency classes I, II, III and IV at the early-stage evaporation station is 160KW while the direct start-up operation mode runs at 132KW. When the operating current is high, the equipment start-up current is also high. The overall operating energy consumption of the variable frequency control motors is lower than that of the line-start motors. The starting current of the variable frequency control motors is low and the protection functions are complete. The technical modification can improve the economic benefits of the comprehensive motor operation, prolong the lifespan of motors and reduce the overall electricity consumption of production.

# Technical improvement of new materials for medium frequency furnace building





The anode workshop changes the acidic furnace lining materials to electrofused quartz acidic furnace lining materials by learning the improvement of materials of medium frequency furnace building. Through the workshop practice, the heat of intermediate frequency furnace is gradually increased with the furnace times reduced and power consumption effectively reduced.

In order to further increase the effect of energy-saving, the Group and its aluminum-processing enterprises endeavour to avoid the processing of secondary re-melting of traditional re-melted aluminum ingots by using molten aluminum alloy, which helps to minimize energy consumed by aluminum ingots during the process of secondary re-melting, such as heavy oil and natural gas, while reducing the emissions of carbon dioxide, dust and flue gas during the process of re-melting. With the increase in number and proportion of molten aluminum alloy used, the Group's effectiveness in energy-saving and emission reduction has become more significant.



#### Case Studies - Green Aluminium Innovation Industrial Park

In line with the global trend of energy reform and in conformity with the national policies of energy structure optimisation, key industry distribution adjustment and industrial transfer, the Group cooperates with the People's Government of Yunnan Province to establish a green aluminum innovation industrial park ("industrial park") with a planned area of 10,000 Mu and a total investment of RMB40 billion, fully enjoying and utilising the policy for integrating water, electricity and aluminum promoted by the People's Government of Yunnan Province. By banking on the clean hydropower advantage of Yunnan, the industrial park will replace traditional energy with green hydropower, which will further enhance the energy efficiency of the Group's production, reduce its reliance on traditional energy, reduce the emission of pollutants and greenhouse gases and lower production cost. The equipment, technology, process and automated control of the green aluminum innovation industrial park are up to the international leading standard in the industry. Various operations in the production process have achieved basic automation and intelligentization, and achieved an advanced level in terms of average labor efficiency per capita. Among these, the 600KA electrolysis cells were awarded the First Prize of the China Nonferrous Metals Industry Scientific Technology Award in 2016. It is currently the largest electrolysis cells model in the world and can effectively reduce flue gas emission. In addition, the first domestic wet flue gas desulphurization system of electrolysis plants was installed at the back of the feed dry flue gas purification system of the industrial park and the wet desulphurization system was introduced. After electrolysis of flue gas by the wet desulphurization process, the levels of sulphur dioxide, smoke particles and fluorides are controlled at below the aluminum limits of the national industrial pollutant emission standards, truly achieving ultra-low flue gas emission of the aluminum electrolytic industry. At present, a small part of the industrial park is in operation and the Group will continue to increase its capacity and expand in scale, so as to enable the Group to pursue sustainable development.

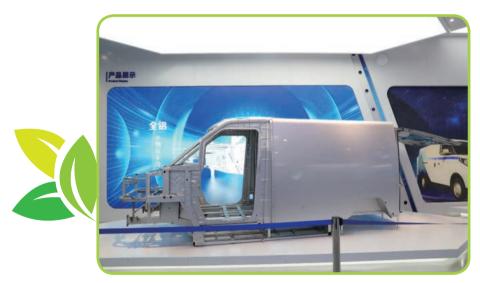


Yunnan green aluminium innovation industrial park



#### Case Studies - Light weight automotive

Automotive lightweighting, which adopt lightweight materials to reduce the weight of car, is one of the major methods to realise energy saving and emission reduction of automobiles nowadays, so the fuel consumption and emissions in the operation of the vehicle will be reduced. During the Year, the Group initiated production and research in relation to light-weight automotive, with the objective of developing light-weight parts of motor vehicles and the core technology of the whole-vehicle manufacturing system, and endeavoring to build a world-leading and the largest full-process automotive lightweight R&D and manufacturing base in China and a world-class R&D center for lightweight aluminum materials. Supported by domestic and foreign research institutions such as the University of Chinese Academy of Sciences and Soochow University, the R&D center for lightweight aluminum materials in Shandong Province has established a complete research and development system and research team with more than 200 research and development personnel and more than 20 top experts at home and abroad. At the initial stage, it is mainly committed to the research and development of core technologies such as lightweight parts of motor vehicles and whole-vehicle manufacturing systems. In the future, the Group will gradually expand its technology to the research and development lightweight materials and spare parts for rail transportation, aviation and aerospace, military industry, etc., so as to improve the development of lightweight materials in China.



Light-weight automotive showroom

#### **Publicity and Education**

In order to encourage employees to actively participate in energy conservation and emission reduction, the Group raises the employees' awareness of energy conservation and emission reduction through publicity and education, and guides and drives all employees to create a good atmosphere for energy conservation and emission reduction. The Group provides employees with training on energy conservation and emission reduction, covering enterprise production and national energy conservation policies, the importance of environmental protection as well as the energy conservation and emission reduction requirements and environmental control indicators, etc. The training and evaluation can help employees further understand the importance of clean production, energy saving and emission reduction and thus strengthen their awareness of environmental protection.



#### **WASTE MANAGEMENT**

The final solid waste generated by the Group can be classified into non-hazardous waste and hazardous waste. The Group strictly implements the regulations such as the Law of the PRC on Prevention and Control of Environmental Pollution by Solid Waste, the Standard for Pollution Control on the Storage and Disposal Site for General Industrial Solid Wastes (GB 18599-2020), the Control Standard of Contaminated Hazardous Waste Storage (GB18597-2001(2013 Revision)) and so on, to ensure that solid wastes are properly disposed.

Types of Wastes	Major Components	Disposal Methods
Non-hazardous waste	Domestic garbage	Cleared and handled by the Municipal Sanitation Department
	Waste accessories	Sold to qualified recycling companies
	Ash from power plant, slag, desulfurization gypsum	Sold to construction materials companies for recycling
	Scrap and dust of carbon anode blocks	Sold to external parties for comprehensive utilization
	Electrolyte powder, electrolyte blocks	Sold to qualified entities for handling
	Construction waste	Entrusting qualified entities for handling
Hazardous waste	Waste lubricants, waste denitration catalyst	Sold to qualified companies for extracting valuable ingredients through smelting, purification and other methods
	Coal tar	Entrusting qualified entities for handling
	Waste carbon residue (slag)	Recycling the useful substances through the flotation process and selling them to qualified recycling companies
	Scrapped paint barrel, scrapped oil barrel	Sold to qualified entities for handling
	Red mud	Stored in sepcific red mud storage facilities, recycling and reusing some of the useful substances, or making them into bricks and selling them to construction companies

The Group is committed to the goal of minimizing waste emissions and proactively reduces the amount of waste by recycling and reusing waste. Through using dual chamber furnace process to melt the waste with impurities, recycled materials, wastes collected from the market and/or clean materials, the Group recycles and reuses aluminum scraps generated during the production process so as to reduce industrial waste. Such technique provides a comprehensive system that can be easily operated, and in particular, for the melting of waste with thin wall and impurities, which reduces the wasting of thin-wall materials and the environmental impact caused by the recycling of aluminum scraps. Moreover, the Group adopts flotation process and comprehensively utilizes the waste carbon residue (slag) generated from the aluminum smelting process. Part of the products obtained from flotation are reused as raw material for electrolytic aluminum production and part for selling. The comprehensive utilization of aluminum electrolytic waste carbon residue serves as a good illustration of resource recycling of waste carbon residue to avoid environmental pollution, and at the same time, creates greater economic benefits for the Group.



#### Case studies - Aluminum recycling technology industrial park

In order to improve the efficiency and automation of scrap metal recycling and to overcome the current difficulties in China in failing to produce high quality secondary aluminum, the Group has collaborated with Schlolz, which is the largest vehicle dismantling and metal recycling company in Germany, to introduce its state-of-the-art scrapped vehicle dismantling technology and secondary aluminum production technology, so that China can achieve non-downgrade use of secondary aluminum and the aluminum industry to realise green recycling. In the dismantling, crushing and sorting processes, the project uses first-class metal crushing and sorting processes which has a recycling rate of 97% for scrapped vehicles, exceeding the standards of Germany and Europe (95%). In addition, the automation level of metal sorting is also at an advanced international level. This has completely changed the state of sorting scrap metal by labour in China, and achieved the sorting of scrap aluminum in accordance with the alloy series. In addition, the project will also construct a complete recycling production line to achieve the non-downgrade use of the scrap ring-pull cans. The Group expects that after the completion of the Sino-German Honggiao Scholz Circular Economy Science & Technology Industrial Project, it can recycle and dismantle 100,000 scrapped motor vehicles annually, produce 500,000 tonnes of secondary aluminum and 200,000 tonnes of selected raw materials of aluminum alloy and aluminum alloy products annually, realizing an output value of more than RMB10 billion. The Group believes that the secondary aluminum project will raise the level of recycled aluminum conservation in China, and greatly enhance the economic value of secondary aluminum, which will serve as a leading demonstration for the development of the secondary aluminum industry in China.



Sino-German Hongqiao Scholz busy with construction during the pandemic



Secondary aluminum workshop of Sino-German Honggiao Scholz



#### **GREEN OFFICE**

The Group proactively responds to the national environmental and protection policies, adheres to low carbon and environmental protection philosophy in office, and encourages all employees to set their own examples and take small steps, such as saving water and electricity, and reducing the consumption of paper and other office supplies in daily office activities. We also encourage employees to commute to and from workplace on foot or by public transports and comply to the restriction on the use of private cars that is based on even- and odd-numbered license plates in order to reduce the use of motor vehicles and adopt a greener and healthier way of travel.

### Water Consumption Management

- Posting water-conservation slogans in toilets
- Purchasing and using water saving appliances
- Strengthening daily maintenance of water meters, plumbing and water appliances to avoid the "running", "spraying", "dripping" and "leakage" of water and eliminate water leakage
- Reusing of steam condensation
- Changing supply pumps of domestic water and purified water and improving the utilization efficiency of devices
- Establish a mechanism for water use records and statistical analysis of water consumption to clarify water consumption plan, water saving plan, water saving measures, and conduct reasonable water consumption analysis on a regular basis

### Electricity Consumption Management

- Posting energy-conservation slogans in office
- Purchasing and using office supplies with energy efficiency labels
- Turning off power supply of various kinds of electrical appliances after work to reduce standby energy consumption
- Installing LED and other lightings with high efficiency
- Strengthening the management of lightings to save power, turning on the lights selectively in big office, and installing voice-activated switch in staircases
- Setting temperature of air conditioners at 26°C or above during summer
- Using video and teleconferences to replace unnecessary business trips

### Office Supplies Management

- Posting paper-saving slogans in office
- Making full use of paperless office platform, intranet, communication software and other channels to process documents online
- Reducing font size and margins when printing, making text format more compatible with paper and promoting double-sided printing and paper recycling
- Sharing printer and fax machine to reduce idle equipment
- Collecting and reusing paper bags and card indexes
- Following the principle of "Adjusting first, reporting after" to strengthen the audit and reporting on various plans
- Repairing and utilizing old and used materials to improve material usage efficiency



#### **RESPONDING TO CLIMATE CHANGE**

In recent years, climate change has attracted international attention and is of high relevancy to all enterprises. Therefore, the Group is committed to reducing greenhouse gas emissions as its goal, actively participates in coping with climate change and has adopted a series of energy saving and consumption reduction measures. In addition, the Group also advocates the green environmental volunteerism, encourages employees to actively participate in environmental protection charity activities such as voluntary planting of trees and contribute to environmental protection. Through the tree planting activities, greening the surrounding environment and reduction of greenhouse gases in the atmosphere over the Year, the Group made contributions to tackle climate change. The Group organized cadres and workers to carry out extensive tree planting activities both for the plant areas and home. Through tree planting activities, the environmental protection consciousness of "everybody being responsible for afforestation and greening" is further enhanced among cadres and workers.





In order to strictly control the relevant risks arising from climate change, the Group regularly monitors global and local government policies and regulations on climate change to identify potential climate-related risks and opportunities that may affect the Group's operations We also conduct risk assessments to determine the appropriate level of exposure to climate-related risks and associated vulnerability to business operations, so as to formulate responding and preventive measures as early as possible.



During the Year, the Group was aware of the natural environmental risks brought about by the increased severity of extreme weather events. Extreme weather may cause transportation difficulties and disruption to the supply chain, which in turn may reduce our production capacity. In addition, due to the increasingly stringent policies and enhanced emission reporting obligations, the Group may also be exposed to transitional risks such as policy risks. As the national carbon emission trading system commenced operation, the aluminum industry will be included in the carbon emission trading system in the future, and the price of greenhouse gas emissions may increase due to the government policies. Furthermore, as stakeholders have increasing concern over the Group's response to climate change and whether the goods and services we provided are environmentally friendly or low-carbon, the Group may need to increase its investment in environmental protection technology, which may lead to higher costs.

To cope with the increased frequency of extreme weather events due to climate change, the Group has developed a number of risk mitigation measures and emergency management plans. The Group provides comprehensive insurance coverage for properties and other assets vulnerable to extreme weather damage and enhances the resilience of the physical structure of buildings through design and appropriate maintenance. We will adopt special work arrangements and issue safety warnings according to special weather conditions, and have developed emergency evacuation plans for extreme weather events to protect the health and safety of employees. In addition, the Group assesses climate-related risks in the supply chain to identify alternative sources of supplies and requires suppliers to take climate-related risk prevention measures to ensure stable plant production. Besides, we regularly exchange points of view and opinions with stakeholders on climate-related issues to help us continuously review and improve our climate change and energy policies.

Looking ahead, the Group will continue to adhere to the "innovative, harmonious, green, open and sharing" new development philosophy, actively respond to national development policies, and proactively implement the country's "3060" dual-carbon commitment strategic target. The Group has initiated its planning, layout and implementation of dual-carbon work in advance, and through promoting its dual-carbon strategic planning project, the Group shall be able to fulfill its environmental and social responsibilities, while contributing to the sustainable development of the community and the industry.



#### ADHERING TO PEOPLE-ORIENTED GOVERNANCE



Excellent talents are the cornerstone to achieve the Group's strategic goals and driving force for sustainable development. By adhering to the employment principle of "selecting appropriate talents, respecting value and being people-oriented", the Group not only strives to protect employees' rights and maintain employees' physical and mental health, but also attracts talents through scientific talent training methods, an effective incentive mechanism, a platform of fair competition and vast opportunities of career development, enabling all employees to fully demonstrate their personal value in the Group, match their personal planning with the business development goals of the enterprise and achieve mutual growth of the employees and the enterprise.

#### **RECRUITING TALENTS**

In order to facilitate the development needs, we recruit talents from different cultures, different backgrounds and different regions to join our team to increase the diversity of employees. The Group strictly complies with the relevant laws and regulations, in the recruitment, dismissal, promotion and remuneration of employees such as the Labor Law of the PRC, the Labor Contract Law of the PRC and the Labor Contract Regulations of Shandong Province, to protect the legitimate rights and interests of employees in a legal manner.

#### Employment Policy

The Group carries out its recruitment mainly through a variety of channels such as social recruitment, online recruitment, campus recruitment, telephone contact, employee recommendation and talent exchange. Eligible applicants will be assessed in the form of medical examinations, paper examinations and interviews, during the process, the Group upholds the principle of equal opportunity, and considers and employs talents in a fair, open and just manner and promises that it will never discriminate on grounds of gender, age, race, religion, marital status, and so on. In order to eliminate the employment of child labor and forced labor, the Group not only checks the identity and age of candidates carefully during recruitment in accordance with the relevant laws and regulations such as the Provisions on the Prohibition of Using Child Labor, but also strictly prohibits any employee from working overtime on a compulsory basis or to arrange work beyond their job duties. Once any such case is found, the Group will make thorough investigation and immediately dismiss the related employee. Exit interviews will be conducted by the Group for departing employees to find out their reasons for leaving and make improvements according to their reasonable suggestions.



The Group has established a sound remuneration management system and provides competitive remuneration packages to attract talents. Under the premise of ensuring fairness and incentives for the assessment of wages, each department regularly assesses and adjusts the wage level according to the salary standard of the post, workload, work performance, years of service, skill levels of the employees and other factors. In addition to the basic wage, the employees' remuneration also includes performance-based bonus and various types of subsidies such as skill subsidies, position subsidies, and high temperature allowances. We will purchase and pay social insurances for employees, such as pension insurance, medical insurance (including maternity insurance), unemployment insurance, work injury insurance, etc., in accordance with related labor and social welfare laws and regulations, while providing them with additional benefits such as free accommodation, medical, food and transportations. The Group has also established a reasonable dismissal system and formulated legal conditions of dismissal in accordance with the relevant laws and regulations.

During the Year, the Group found no cases of child labor or forced labor.

# Rights Protection

The Group is committed to safeguarding the rights of its employees and eliminating any exploitation of rights. In order to ensure that employees have enough resting time, the Group stipulates that the working hours of employees should not exceed the statutory standards and relevant provisions shall be set out in labor contract. Eight-hour working system and three shifts with four groups are adopted for employees in each production unit. Employees are required to work overtime only under specific circumstances. Overtime payment is made to employees in accordance with the applicable standards stipulated in relevant laws. All employees enjoy statutory holidays, home leave, marital leave, funeral leave and maternity leave.

The Group firmly opposes gender discrimination. Employees, regardless of gender, are treated equally and the distribution of work is implemented according to actual needs. The Group also protects the lawful rights and interests of female employees according to law and complies with the relevant laws and regulations to provide female employees with benefits during pregnancy, delivery and lactation, including arranging breastfeeding time for employees returning to work after delivery.



#### **TALENT CULTIVATION**

"Strong enterprise with great talents" is one of the important strategic goals of the Group. The Group highly values personal development of our employees by not only creating a clear career development path for all kinds of talents, but also encouraging their continuous growth through performance appraisal, job selection and training, so as to provide backup force for the sustainable and stable development of the enterprise.

#### Performance Evaluation and Promotion

Apart from serving as the basis for employees' compensation adjustment, the Employees Performance Dynamic Management System of the Group is also an important basis for employee competition, promotion and change of position. Employees who have achieved outstanding results in performance appraisal will be given priority in the process of promotion.

In addition, the Job Selection System is adopted in each production unit and the Group has also set up a selection and employment mechanism that can better identify the outstanding talents from the peers. Following the principles of "fair, just, open, competitive and merit-based", outstanding employees will have the opportunity to compete for different positions. The most suitable candidates are selected level by level through a series of assessments, including branch factory assessment, written tests, interviews, practice exams, safety assessment and democratic evaluation. The job selection process is closely monitored by all the employees for reporting and complaining about any violations.



Career Path - Maintenance

# Employees' Training

By adhering to the talent concept of "cultivating talents by demand", the Group has established a comprehensive and diversified staff training system for our employees to help them master the skills and knowledge for their work. We provide specific training programs which are guided by experienced staff for all new employees to help them master all necessary skills during the first four months of their internships. In addition, we also provide employees with various trainings such as production safety, emergency training, fire training, for operation in confined spaces and trainings related to risk control and clean production, to cultivate their awareness of production safety and energy conservation. In terms of quality control, we regularly provide technical and theoretical learning and technical practice tests for our employees. We also provide award for outstanding employees in such trainings to motivate them to improve their skills and ensure product quality. Furthermore, we also conducted a number of trainings to develop the soft skills in communication, decision-making and team spirit, including effective communication skills, team management and growth mindset.



During the Year, the Group continued to implement each of the annual training programmes and commence job training, professional and technical personnel training, elementary management training and middle and senior management training.

Trainees	Training Goals	Training Methods and Contents
Management training for middle and senior management cadre	To improve management skills and overall quality of management cadres	Participating in training classes for middle and senior management cadre taught by experts and professors; reading educational materials; cadre warning education is performed through watching films and televisions for integrity advocacy, corruption punishment cases, warning videos and so on
Branch factory employees	To meet eligibility criteria and be able to operate independently	New employees: receiving educations about rules and regulations of the Company, safety awareness, environmental awareness, dedication, ethics, compliance with disciplines and laws and other aspects
		After determining the type of job or changing position: learning knowledge of the environment quality system, job responsibilities, fire safety and emergency knowledge, environmental protection knowledge and the related skills of the assigned position
Production plant employees	To meet eligibility criteria and be able to operate independently	Trainings targeting at technical courses on process, machine operation knowledge, equipment maintenance and care, and at the same time providing chemical knowledge, emergency knowledge, fire safety and environmental awareness, job safety regulation, strengthening sense of responsibility, and so on
Logistics department employees	To improve the overall capability of employees	Personnel training, business skills and specialized trainings on the integrated management system
Electricians, welders, climbing workers, chemical managers, and so on	To ensure the normality and safety of electricity consumption for production and living of the Company and improve environmental quality	Political thoughts and professional ethics education, safety education, environmental education, emergency knowledge training, job safety regulation training, technical theory study and practice
Special types of work, internal auditors, firefighters, safety officers, and so on	To standardize operations and eliminate employees who are not competent for the work	ISO14001 Environmental Management System Standards Training, professional skills operation training, safety management training, environmental awareness and concept training





Safety training



Special training on product quality standards



Training on efficient communcation skills



Monthly training of technical personnel



Factors of steam deficiency in flash evaporators and mud layer control and liquid balance in settling tanks



Growth mindset training

In addition to providing internal trainings, during the Year, the Group continued the cooperation with Binzhou Technical College, Shandong University and Northeastern University, respectively, according to which, the Group may select its internal staff to attend relevant training programs organized by these institutions, which helps improve workforce quality and management capabilities. In the meantime, apart from the courses in those training programs, the Group may organize specialized training for relevant staff when requirements of designated products or recommendations for improvement are received. We have put the mechanism of training evaluation in practice to review the training outcomes and enhance the whole training system. The evaluation includes safety examination, professional examination, skill examination, etc.



### Commendation and Rewards of Employees

In order to evaluate employee performance fairly and objectively, the Group has formulated and implemented the Employees Performance Dynamic Management System and grants extra bonuses as incentives to outstanding employees after conducting regular employee performance assessments to enhance the quality of work, work efficiency and motivation of the employees. During the Year, the Group held the Celebration of the International Labor Day and the Commendation conference of "technical talents", at which workers, technicians, operation technical talents, equipment technical talents, energy saving and efficiency enhancement award winners as well as scientific research innovation award winners were commended, and bonuses, prizes, medals, trophies and certificates of honor were awarded to create a strong atmosphere of respecting labor, advocating pragmatism and encouraging innovation.



Awarding ceremony of "technical talents"



Commendation conference of "technical talents"

# **CARING FOR EMPLOYEES**

The support and dedication of each employee are indispensable for the growth and development of the Group. In addition to providing an ideal working environment for employees, the Group also extends its care to employees' families and lives.

# Welfare System

The Group upholds the principle of "ensuring housing for employees, medical services for the illness, pension insurance for the retired and education for their children". We are continuously improving the employees' welfare system that integrates housing, education, health care and pension insurance mechanisms. The benefits include:

- establishment of salary growth mechanism, pursuant to which the Group has granted salary raises for several times in the last few years and increased remuneration for probation (training) stage;
- payment of social insurance for employees in accordance with laws;
- providing free dormitory with heating supply, air-conditioner, Wi-Fi and other facilities for single employees;
- construction of a number of normalised high-standard kindergartens at each industrial park, providing convenient education services for the children of employees with a low tuition fee;
- establishment of non-profit outpatient hospitals at each industrial park to provide basic medical services for the employees and their families;
- provision of venue and facilities for recreational activities such as construction of culture event plaza and cinemas and provision of physical exercise equipment;
- establishment of honours such as "Outstanding Party Affairs Workers", "Outstanding Party Members", etc., so as to motivate employees for improvement.



### Helping Employees in Need

The Group always adheres to the philosophy of "thinking from the employees' perspective, considering their worries, resolving their concerns", providing them with what they are in need and caring about their families and lives. The Group's Administration Department and Human Resources Department carry out regular surveys and visits to employees in difficulties, and takes the initiative to understand the living situation of these employees, their family relationships and financial burdens. Priority is given to employees who are suffering from illnesses, or whose families encounter misfortunes or difficulties in life. The Group encourages the spirit of "All for one and one for all" and encourages staff to make donations to colleagues in financial difficulties, creating an atmosphere of solidarity and love. During the Year, the Group invested a total relief payment of approximately RMB78,000 to provide assistance to 33 families in need, helping them to overcome the hardships.



Visiting employees in need



Donations for workers in financial difficulties

In addition, the Group has continued to participate in the "Sany Student Aid" charity programme, visited needy students in the towns, street offices and families of our employees with financial needs in Zouping City before the Spring Festival of each year, and delivered grants to them. The grants are provided on a basis of RMB2,000 per annum for each student and there are two visits each year to deliver a grant of RMB1,000 to each student each time, giving them a sense of care and warmth from the Group and helping them complete their studies.





Sany student aid programme



# **Cultural and Sports Activities**

In order to help employees achieve work-life balance, enrich their spare-time life and enhance their sense of belonging and cohesion for the Group, the Group held various types of employee activities during the Year, including a series of cultural, sports and recreational activities including Hiking alongside Daixi River, walk event in Qinhuanghe Wetland Park, Lantern riddles, Cadre Fitness Games, Zhonghai Lake Cycling Race, Red Education Base Tour and International Women's Day Event, etc. Meanwhile, the Group holds large-scale technical competitions in autumn and winter every year. In addition to demonstrating the technical level of the participants, the competitions also test the safety knowledge and safety operation skills of the employees, ensuring the quality and safety. Generous rewards are given to employees who have excellent performance in the competitions, and the Group will also arrange work experience sharing sessions among employees to promote learning and communications between employees, improve employees' business skills and foster their spirits of excelling at work.



Autumn operation technical competition



Lantern riddles



New employee apprenticeship ceremony



Hiking alongside Daixi River



May Day Games



The 100th Anniversary of the Founding of the Communist Party of China



Close to the Yellow River



Visit to Yangxin County Yangcheng Pension Service Center



Xibaipo Red Education Tour



International Women's Day Event



Walk event in Qinhuanghe Wetland Park



Volunteering at Yangxin County Yangcheng Pension Service Center



#### **PURSUING EXCELLENCE IN QUALITY**



Molten aluminum alloy, the major product of China Hongqiao, is the main material for manufacturing aluminum products and other products including aluminum deep-processing products such as coils, can stocks, aluminum foils, etc. China Hongqiao possesses advanced manufacturing equipment, specialized production technology, strong R&D (research and development) capability as well as scientific and highly efficient management model. By virtue of pursuit and persistence of excellence in quality, China Hongqiao is able to continue providing customers with high quality, safe and stable products along with excellent service.

#### **SUPPLY CHAIN MANAGEMENT**

The raw materials necessary for the production and operation of the Group mainly include raw coals, bauxites and anode carbon blocks, and the required supplies mainly include equipment, accessories, production ancillaries, labor insurance and office supplies. In order to maintain a healthy and orderly supply chain system, continuously optimize the supplier teams and reduce the environmental and social risks posed by substandard suppliers, the Group has been devoted to improving the procurement process and regularly identifying, assessing, managing and monitoring environmental and social risks of the supply chain. The Group will conduct environmental surveys in the form of questionnaires or site visits to assess and monitor the performance of suppliers in terms of environmental compliance, environmental protection and resource conservation, and give priority to suppliers with ISO50001 energy management system certification, ISO14001 environmental management system certification or low carbon product certification. In addition, the Group assesses and monitors the safety and health performance of products and services provided by suppliers and gives priority to suppliers with ISO45001 occupational health and safety management certification in order to effectively manage and monitor environmental and social risks in the supply chain. The Group has established long-term relationships with many suppliers and has endeavoured to ensure that they comply with the Group's commitment to quality and ethics and the Group's anti-bribery policy. In addition, the Group adheres to strict procurement practices in selecting suitable suppliers and currently has more than 3,000 suppliers with whom the Group has relationships in accordance with the following procurement practices.

# Procurement of Raw Materials and Supplies

The Group appoints tender companies to procure the raw materials (other than bauxites) and supplies in accordance with the materials consumption plan submitted by each production unit. The procurement is in compliance with its internal procurement management system, which covers the procurement process, procurement discipline, quality requirements, contract execution and management, acceptance process upon arrival and punishment standards for non-conforming products, and so on. After supplier's operation qualifications, economic strength, equipment conditions and supply capacity are inspected and assessed by the tender company, the eligible suppliers are then selected to participate in the tender. The bidding process strictly follows the regulations such as the Bidding Law of the PRC and is conducted in an open, fair and equal manner to secure the interests of both parties. In addition to the principle of "comparing quality of the same products, comparing price of the same quality and comparing service of the same price", The Group also advocates green procurement by purchasing or selecting products that have the least impact on the environment wherever possible, for example, products that comply with clean technology production or help reduce water consumption. Moreover, the Group also adopts the principle of conducting procurement from nearby suppliers to reduce transportation costs and carbon emissions caused during transportation.

# Procurement of Raw Coal

Due to the ongoing impact of the pandemic, the Group has not implemented centralised tendering for coal suppliers since this year. At the same time, due to the volatility of the coal market and frequent price changes, the Group has adopted a system of direct pricing followed by adjustments according to market conditions. To avoid over-purchase and waste production, coal-using units report the monthly coal use plan on the basis of monthly usage amount, and then the Purchasing Department determines the amount of coal required and target purchasing amount through tender on the basis of inventory. Apart from considering the price, the Group also evaluates factors such as the bidder's integrity, the environmental impact (including sulphur content), etc., to ensure the quality of the coal purchased.



#### QUALITY MANAGEMENT AND INNOVATION RESEARCH AND DEVELOPMENT

The Group implements the "one-vote veto system" for quality control. Every process of the production line is checked carefully, forming a quality control network that all steps are closely connected and monitored by all staff members. "Two prohibitions", which include prohibition of passing defective products from the former procedures to the latter procedures and prohibition of storing and outputting disqualified products, are enforced in our production. While "three unacceptance", which comprise unacceptance of unconvinced reasons, unacceptance of unimproved measures and unacceptance of the irresponsibility of any personnel in charge, are put in place for quality incidents.

The Group has set up a well-equipped and highly functional quality control center, and the quality management system is also in line with the standard of the International Organization for Standardization ISO 9001: 2015. Through continuously upgrading its production technology and equipment through innovative R&D and encouraging staff members to participate in minor reforms and activities related to tackling key problems of QC (Quality Control) thoroughly, the Group strives to ensure stability and enhancement of product quality.

# **Quality Control**

The Group has set up a quality control system that closely monitors the quality of raw materials, semi-finished products and finished products step by step. All production processes of raw materials from entering to leaving the factory are traceable, in which composition testing, random sampling, labeling, packing, transportation and storage all strictly comply with relevant standards and specifications. For raw materials, ancillary materials and non-conforming products which fail in the initial and final testing procedures, the Group will conduct isolation, analysis and correction and provide opinions and suggestions for the incident according to the Control Procedures of Non-Conforming Products.

To guarantee the health and safety of its products, the Group strictly conforms to the requirements of national, industrial and international standards such as the National Food Safety Standard for Food Contact Materials and Use of Additives Standards for Products (GB9685-2016) and the National Food Safety Standard for Water-based Modified Epoxy Paint of the Inner Wall Cans (GB 11677-2012) to ensure that the toxic and harmful contents contained in the packing products for food and drugs meet the legal standards and make sure the production environment and processes fulfill the specific hygienic requirements. Can materials produced by the Group currently meet the width and thickness requirements of all domestic and foreign can factories and are capable to satisfy the specific requirements of customers. The performance in terms of indicators is widely recognized by clients. The Group has established stable partnerships with more than one hundred renowned enterprises at home and abroad, including Baosteel Packaging, CPMC, ORG Packaging, Shengxing Group, United Can, Ball Corporation.



If a complaint of a customer about the quality of the Group's products is received, the Group will analyse the cause of the product quality problem and formulate preventive measures and product quality improvement plans. For products that need to be returned, we will communicate with the customer before proceeding to the return process, and such returns will be completed within 5 days. The Group will continue to follow up on product improvements and production workshops are required to strictly follow the product quality improvement plans to ensure that the product quality is improved. During the Year, the Group did not recall any aluminum products for safety and health reasons.

#### Promotion of SAP&MES Information Platform

In order to deal with the increasingly complex information management needs, and facilitate the transition of refinement, digitization and informatization management of the Group, we cooperated with IBM Company and Shanghai Baosight, to build the System Applications and Products (SAP) & Manufacturing Execution System (MES) informatization platform through years of research. SAP&MES platform provides a comprehensive system that connects enterprise management, all production lines and on-site production equipment to help us plan and organize production and operation activities reasonably and efficiently, and achieve efficient control and management on quality. Meanwhile, by collecting and utilizing production management data, we can more objectively analyze and discover problems in production technology, capacity planning, quality management, etc., providing a new source of power for the Company to improve the overall operational efficiency and quality management.

# Innovation and R&D

Innovation and R&D are the major driving forces for the Group to reduce energy consumption, optimize production techniques and enhance product quality. The Group paid high attention to innovative platform construction and industry and academic collaboration. On the one hand, we actively invest resources into the R&D team, establish research centers and laboratories, and hire research and development personnel purchase advanced equipment, etc. On the other hand, we continue to strengthen the partnership with scientific research institutions in the form of industrial and academic collaboration. During the Year, the Group continued to exchange and cooperate with Soochow University, Central South University, Northeastern University, Binzhou Technical College and other universities. Besides, the Group encourages its staff to work on improvements of production facilities and techniques regarding safety, energy conservation, efficiency enhancement and environmental protection and to learn from and promote the technical transformation projects with promotional value. During the Year, the Group implemented a total of 130 minor reform projects and applied for 153 patents. Hence, the Group spares no effort in continually improving its performance in environmental protection, employee safety safeguard and quality control.



# Facilitating development of the industry

The Group took part in formulating several national and industrial standards, such as the Assessment Specification for Green Aluminum Plants (《鋁行業綠色工廠評價規範》), the Unalloyed Aluminum Ingots for Remelting (GB/T 1196-2017) and the Safety Guidance for Use of Vacuum Ladles (DB37/T2800-2016), promoting the standardization in the PRC's aluminum industry and improving the quality control of aluminum products and production safety management. In addition, we wrote papers on innovation and R&D jointly with a number of renowned scholars, in an effort to explore how to enhance the quality of aluminum alloy in all aspects and promote the continuous and mutual progress and development of the Group and the industry.

As a leader in the industry standards, the Group has won a number of national and local awards, including the Standards Excellence Prize from the National Nonferrous Metals Standardisation Technological Committee and the Enterprise Standard Forerunner Certificate from the Institute of High Quality Standardisation. The above certificates confirm China Hongqiao's leading position in the aluminum industry in China in terms of quality management and technical standards.



Enterprise Standard Forerunner Certificate



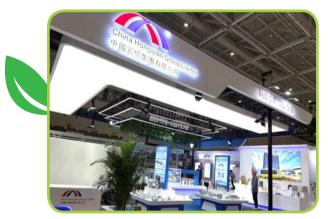
Technical Standards Excellence Prize

As a Chinese enterprise with global exploration and international cooperation, the Group is determined to meet the high standards of the global aluminum industry. By joining the Aluminium Stewardship Initiative (ASI), the Group will be able to accelerate the pace of carbon neutrality and sustainable development, promote responsible aluminum production and establish close cooperation with other national partners.



#### **SALES AND SERVICES**

The Group maintains long-term relationships with multiple clients and adopts a business model of "production based on sales" and provides various products with different specifications in accordance with the requirements of downstream customers, which ensures its product supply and minimizes the stock inventory. The Group mainly promotes its sales and services through participating in customer seminars and exhibitions and publishing promotional videos and booklets. During the year, many of the Group's products were exhibited and marketed at various international exhibitions and exchange sessions, including the China (Qingdao) International Aluminum Industry Exhibition (中國(青島)國際鋁工業展覽會), Aluminum China and Asia's Lightweight Automotive Trade fair (中國國際鋁工業展覽會暨亞洲汽車輕量化展), New Growth Drivers • Qingdao Exhibition Fair (新動能·青島展覽洽談會) etc.



2021 China (Qingdao) International Aluminum Industry Exhibition



2021 Aluminum China and Asia's Lightweight
Automotive Trade fair

During the Year, the Group continued to strictly comply with relevant laws and regulations such as the Advertising Law of the PRC and the Trademark Law of the PRC, as well as its internal rules including the Working Rules of Sales Corporation and the Corporate Customer Credit Management System. All products and business information shall be carefully reviewed before being publicly disclosed to eradicate any acts of misleading or cheating clients with false information. The Group has registered multiple trademarks in China and Hong Kong according to relevant laws while signing cooperation agreements with different working partners, showing that the Group highly respects the trademark rights of others and lawfully protects the trademarks of the Group from any violation.

In order to understand customer's satisfaction with the Group's products, the Group has stipulated working regulations for sales companies and required sales personnel to actively contact customers and establish a continuous and stable communication channel, so as to collect customers' opinions and improve service quality. If we receive complaints from customers relating to our products, we will reply to customers as soon as possible after completing investigation and take appropriate improvement measures if necessary, to prevent the recurrence of similar incidents. During the Year, the Group did not receive any complaints in relation to the Group's products and services.



#### PRIVACY PROTECTION

The Group gives priority to information security to protect both internal privacy and client information. Its information center provides training sessions regarding information safety, system application and security on a non-regular basis to improve employees' skills in system application and arouse their awareness of security. In order to regulate the use and management of computers and internet resources, according to internal regulations and rules such as the Administrative Rules for Security of Using Office Computers and Network, the Group regulates relevant data backup and protection, anti-virus system management, central computer room management and user password setting, and strictly prohibits unauthorized access to external devices and disclosure of confidential documents and ensures the normal operation of the equipment in computer room and proper storage of important data. In addition, the Group has formulated contingency plans for illegal system intrusion and illegal data tampering, which clearly specify the remedial and corrective measures to be taken by the system administrators in the event of illegal network intrusion and system content tampering, in order to minimise the risk and impact of information leakage to the Company and its customers. The system administrators should immediately shut down the server and the system, block or delete the compromised login accounts, and use antivirus software to remove the hacker program. In addition, the system administrators should identify and restore all tampered or deleted data to restore the system and network as soon as possible.

In addition to improving information security, the Group also ensures that the privacy interests of both the Group and its customers are protected by supervising the bidding and purchasing procedures strictly, carrying out education regarding secrecy, signing confidentiality agreements with employees in specific positions, and with customers and suppliers.

#### **ANTI-CORRUPTION PRACTICE**

The Group always adopts the attitude of "zero tolerance" towards unlawful acts such as bribery, extortion, fraud and money laundering. During the Year, the Group continued to abide by the relevant laws and regulations such as the Anti-Money Laundering Law of the PRC and the Criminal Law of the PRC and put the Anti-fraud Control Procedures, the Administrative Measures on Complaints and Reports and other internal rules and regulations into practice. The Group has set up the Economic Supervision Department as a permanent body to urge each department to carry out the anti-fraud duties. All departments convene an anti-corruption meeting each month to summarize, review and study cases of non-compliance occurred in the past. The Chairman of the Board also holds regular anti-corruption meetings to mobilize and supervise the leaders of various departments to strengthen the building of a clean and honest organization. In addition, the Disciplinary Inspection Committee and the Economic Supervision Department of the Group jointly prepared an anti-corruption publication entitled Anti-Corruption In Organization (《勤廉陣地》), which recorded a number of typical cases of corruption and carried out in-depth information collection and analysis.

In order to support the Group's middle and senior cadres to serve the public interest wholeheartedly and uphold integrity, we engaged experts to organise anti-corruption and integrity training this Year. Through films and televisions for integrity advocacy, educational materials, corruption punishment cases, warning videos and so on., we have been able to educate our cadres and raise their awareness of the need to combat corruption and maintain integrity.



For bidding and purchasing, the Group has adopted strict monitoring measures. In addition to ensuring fairness, openness and justness in the bidding process, the Group also requires personnel and management cadres related to bidding and procurement to sign an undertaking of integrity. The procurement department also signs an agreement on anti-corruption with the bidders to prevent the acts like accepting rebates or engaging in private transactions. During the Year, the Group did not violate any laws and regulations in relation to bribery, extortion, fraud and money laundering that has a significant impact on the Group, nor did any corruption lawsuits brought and concluded against the Group or its employees.

# CARING FOR SOCIAL WELL-BEING



The successful development of China Hongqiao is attributed to the full support and trust of the Country and all parties from the society. China Hongqiao always keeps in mind the initial mission of "building a business for the Country and benefiting the people". We accumulate our love through little acts of kindness and give back to society and people by actively participating in social welfare undertakings and fulfilling our responsibilities and missions as a corporate citizens.

# **COMMUNITY WELFARE**

The Group always pays close attention to the interests of the community where it operates and regards improving the community's well-being as an important way to realize its value. Over the years, the Group has actively organized and participated in various types of charity and social welfare activities and encouraged employees to participate in such activities. During the year, the Group donated RMB40 million to flood-affected areas in Henan Province and Shanxi Province, demonstrating its corporate social responsibility and commitment.

The Group has also actively carried out poverty alleviation work through education. We launched a series of educational sponsorship activities this Year. During the activities, we have donated approximately RMB170,000 of scholarships to 71 children and donated clothes, scarves, quilts and other loving materials to provide them with fair education opportunities and a suitable learning environment.

Furthermore, the Group actively participated in the Weiqiao Rainbow Home (魏橋彩虹之家) project sponsored by the Beijing Rainbow Charity Foundation (北京彩虹公益基金會) to ensure the sustainable development of the Rainbow Homes with hardware and software facilities, providing the children with a healthy and interesting learning life and a warm and loving home. During this Year, Weiqiao Rainbow Homes has been committed to the responsibility of aesthetic education in rural areas and educating children with art, allowing them to enjoy art in the natural environment of the village and guiding young people to develop a correct aesthetic and cultural outlook through aesthetic education programmes, community activities and school culture. Weiqiao Rainbow Homes have been established and carried out activities in Binzhou, Linyi and Heze of Shandong Province as well as Yanshan and Deqin of Yunnan Province, providing activities and counselling to left-behind children to enable them to attain all-round growth and feel love and warmth in the company. Up to now, the number of children benefited from the "Weiqiao Rainbow Homes" project has reached over 20,000.



# Case studies - Weiqiao Rainbow Homes in various places

# Wenshan, Yunnan - 9 Weiqiao Rainbow Homes

The 9 Weiqiao Rainbow Homes in Yanshan, Yunnan Province, jointly organised a reading programme and a "Reading Star" award. The 30 children who were selected as "Reading Stars" came to Shandong Province to participate in the Qilu Chinese National Learning Summer Camp(齊魯大地國學夏令營), where they were able to experience the Chinese culture of Qilu and visit Weiqiao Group. In addition, all Weiqiao Rainbow Homes students received a Rainbow reading pack as a gift for the new school year. The Rainbow reading pack is not only to encourage the village children to read, but also to stimulate their reading enthusiasm. Through regular reading classes, occasional reading activities and summer camps every summer, the children are able to develop their reading habits and improve their reading skills.











# Case studies - Weiqiao Rainbow Homes in various places

# Deqin, Yunnan - 8 Weiqiao Rainbow Homes

With the support of the Yunnan Development and Reform Commission(雲南省發展和改革委員會), the CCP Tuoding Lisu Township Committee(中共拖頂傈僳族鄉委員會) and Tuodinglisuzuxiang People's Government(拖頂傈僳族鄉人民政府), 8 "Weiqiao Rainbow Homes" were officially launched in Tuoding Township, Deqin County, Yunnan Province, donating total 1,400 sets of rainbow reading pack, which contains a school bag, 7 to 8 extracurricular books for children and a box of 36 colour pens, for each child in the third primary school in Degin County and all kindergartens in Tuoding Township.

Mr. Zhang Bo, Chairman of the Board of the Group, who learnt that the local students did not have school uniforms, arranged for "Xiang Shang Sports", an apparel brand of the associated company Shandong Weiqiao Chuangye Group Co., Ltd., to make 1,036 sets of winter school uniforms and 1,036 sets of summer school uniforms for all the students of the third primary school in Deqin County (including kindergarten), and specially customize 50 sets of football uniforms for the school's football team.









# Case studies - Weiqiao Rainbow Homes in various places

# Four locations in Shandong Province - 4 Weigiao Rainbow Homes

The four Weiqiao Rainbow Homes in Shandong Province offer a wide range of aesthetic education programmes, including choirs, calligraphy classes, science and creativity, as well as organising competitions and activities to broaden students' horizons. Children from Zhuzhuang Primary School in Shan County, Heze, Shandong Province came to Mingran Art Museum (明冉美術館) and Xie Kongbin Art Museum (謝孔賓藝術館) to visit and study, allowing students to walk out of the campus and go into the art museum. Ms. Cao Xia, deputy dean of the School of Fine Arts of Qilu Normal University, brought a vivid and intuitive reputation course to the children. The flexible classroom turned knowledge into interest, and the interactive teaching allowed students to learn easily and give free rein to their imagination and creativity.









### **OVERSEAS CONTRIBUTIONS**

To advocate the economic strategy of "The Belt and Road Initiative" of the Country, China Hongqiao has devoted itself to promoting the economic development of the places where it has overseas projects in recent years, and also contributing to the local economic development to fulfill its corporate social responsibility.

#### Guinea

The SMB Winning Consortium formed by the Group, Winning International Group of Singapore, Yantai Port Group and United Mining Supply (UMS) of Guinea established in Guinea upheld the concept of "development in mutual benefit, benefiting the people". Since 2014, while developing bauxite resources, the SMB Winning Consortium has also been committed to promoting the economic and social development of Guinea, making an ongoing contribution to local employment, education, transportation, medical welfare, leisure and sustainable development projects of the community, and creating a new model for multi-party cooperation and mutual benefit in overseas mining development.

During the Year, the SMB Winning Consortium continued to abide by relevant local laws and regulations in Guinea including the Mining Law and the Environment Law and made generous investments in the community construction to promote the development of the local community and economy, which greatly improved the living standards of the citizens of Boké in Guinea. During the Year, the SMB Winning Consortium completed a total of 48 wells in Boké area to ensure that local residents can have a clean and stable water supply, and to resolve problems in villages with inadequate drinking water and water-related diseases. In order to provide convenient conditions for the development of local villages, the SMB Winning Consortium repaired community roads during the Year with an aggregate of more than 22 km. At the same time, in order to ensure the safety of traffic along the railway line and property, the SMB Winning Consortium built a number of underground passages along the line to effectively strengthen and consolidate relations with local communities. In addition, on the premise of being adaptable to the unique climate condition of Guinea, the SMB Winning Consortium will utilise China's advanced agricultural facilities, techniques and management experience to develop an agricultural facility and farming model that can be widely promoted, and cultivate a number of breedable vegetable varieties, with the aim of developing a group of new local agricultural workers who can independently carry out field management, and thereby driving the development of the local economy. During this Year, the SMB Winning Consortium has successfully carried out vegetable farming projects, pineapple field projects and rice trial field projects in five communities. In order to maintain good relations with the surrounding communities, the SMB Winning Consortium has made a number of donations, for example: every quarter, the SMB Winning Consortium distributes rice and cooking oil to surrounding villages that maintain peace and stability, as well as donating cattle and sheep for Eid al-Fitr and Eid al-Adha during religious festivals in the community villages. In addition, the SMB Winning Consortium has donated 148 sets of tables and chairs to primary schools in the region, funded the renovation of local public buildings and bridges, and participated in funeral assistance activities in the community. SMB Winning Consortium continues to increase its social responsibility commitment, with a cumulative investment of approximately 18 billion Guinea francs, equivalent to approximately RMB12 million.

#### Contributions and outcomes from SMB Winning Consortium to the Guinean Community

# Employment

- · Actively supported youth employment and gave priority to recruiting candidates from surrounding communities
- Promoted localization by hiring more qualified local individuals and gradually reducing the proportion of foreign employees
- Provided local employees with tailor-made training and cultivation programs to facilitate the handover of key
  positions and major management positions to local employees
- Donated fishing boats and life jackets to the local residents to support fishermen in developing offshore fisheries

# Education

- Established literacy training centres, built and reconstructed primary schools
- Cooperated with Jiangsu Maritime Vocational Institute to jointly establish the "Winning Mariners College of Jiangsu Maritime Vocational Institute (江蘇海事職業技術學院韋立船員學院)" with an aim of training the young mariners from Guinea and other West African countries

# Medical welfare

- Provided local employees with free medical services and their immediate families with medical services
- Provide local employees with free annual body check services and actively commenced education training on diseases
- Donated to local villages to build clinics and temporary isolation clinics, and provided residents with medical security and limit the spread of virus
- In response to the novel coronavirus pneumonia pandemic, donated anti-pandemic supplies and funds to the locals

# Transportation

- Donated funds to repair the national highway from Kankan to Kerouane near Simandou mine with a total length
  of 145km to tackle the difficulty in travelling by foot during rainy season and the road dust dispersion
- Cooperated with local railway company to establish the first local green railway company and construct local railway facilities which are in line with the concept of sustainable development

# Well-being

- Invested more than RMB1.0 million on the construction of a local water treatment plant, ensuring the water is safe for consumption
- Drilled wells in surrounding communities and repaired some existing wells with faults or damages, solving the water shortage problem
- Showed respect to local customs and culture with active involvement in the community, such as giving out rice
  and livestock at local festivals, actively participating in and funding weddings and funerals as well as religious
  ceremonies of local villagers
- Gave out candies, notebooks and footballs to children in local villagers before International Children's Day

# Culture and leisure

- Sponsored and organized social football matches and sponsored the local professional team
- Installed outdoor large-screen TVs with electricity supplied for villagers to watch TV shows such as football matches

# Sustantable community development

- Planted the cashew trees in the restored mining area and returned the administrative right of the land to the local villagers after the bloom; the mining area after reclamation will become an orchard that brings the villagers income
- Promoted the planting technology of agricultural sheds and vegetable farms to support the local sustainable development

# Others

- Organized several China-Guinea economic forums to promote economic development between both countries
- Donated USD4 million to sponsor the completion of the future entire development planning of the capital, Conakry, and to assist in clean-up activities in Conakry and Boké, which greatly improved the living environment of the two cities
- Donated USD5 million to sponsor the comprehensive inspection of mining resources in Guinea and help the local government accurately understand the status of national resources
- Cooperated with the local outstanding enterprises to jointly develop the mining industry in Boké
- Procured the application for international commercial port of Boké to turn Boké to a major port of Guinea







SMB Winning Consortium's agriculture project

As of December 2021, SMB Winning Consortium has more than 21,500 project staff directly or indirectly involved in Guinea, and the number of the subcontractors and merchants who specially served SMB Winning Consortium reached over 40,000, and more than 75,000 job opportunities (including indirect employment) have been cumulatively created in Guinea. During the Year, tax paid by SMB Winning Consortium to Guinea amounted to approximately USD235 million. Its projects have been running smoothly in Guinea which attracted more enterprises and investors to invest in the mining, infrastructure construction and agricultural industries, hence driving the economic growth of Guinea.

#### Indonesia

PT. Well Harvest Winning Alumina Refinery ("PT. Well Harvest Winning"), jointly established by the Group, Indonesian Halida Group (印尼哈利達集團) and Singapore Winning Group (新加坡章立集團), is the largest industrial alumina company in Indonesia and even in Southeast Asia, which fills the domestic industrial gap in Indonesia and promotes the progress of Indonesia's industrial modernisation. By adhering to the vision of "people-oriented governance and cooperation for achieving mutual benefits", PT. Well Harvest Winning consecutively hired thousands of Indonesian labor, which greatly contributed to local employment, driving both economic and social development. By adhering to the vision of "people-oriented governance and cooperation for achieving mutual benefits", PT. Well Harvest Winning consecutively hired thousands of Indonesian labor, which greatly contributed to local employment, driving both economic and social development. In addition, PT. Well Harvest Winning has established a specialized social responsibility group to launch various projects to actively participate in donating funds to people in need, providing education funds, medical assistance, religious assistance, and repairing infrastructure.



During the Year, PT. Well Harvest Winning has accumulatively invested approximately RMB1.20 million. PT. Well Harvest Winning established a cooperation union with the local villagers to continue teaching them farming, fishing and other skills and providing them with agricultural equipment, fishing gear and other equipment and material so that the local villagers can be self-reliant and this improves their living standards. PT. Well Harvest Winning also actively carried out charity events including coastline restoration, maintenance of churches, investment in school construction and education funds. Through various methods, including improving education, health conditions and family economic status and increasing villagers' income, PT. Well Harvest Winning helps the local villagers to establish a comprehensive and sustainable development of human and natural resources. Through the provision of food subsidiaries, education and consultation on healthy living and free medicine to children, pregnant women and the elderly, PT. Well Harvest Winning improves the standard of health services and continuously improves the public health environment.

During the pandemic, while performing its internal pandemic prevention, PT. Well Harvest Winning strengthened its publicity and education and joint prevention and control efforts for the surrounding communities, schools, medical institutions and police stations. PT. Well Harvest supports local community pandemic prevention activities and improves self-isolation infrastructure. PT. Well Harvest Winning donated some protective materials to local schools and hospitals, and donated pandemic prevention materials such as surgical masks and disinfectants and supplies for their daily lives such as rice, edible oil and cereals to nearby communities and local governments. Such efforts received favourable comments from local governments.

Along with self-development, PT. Well Harvest Winning will continue to integrate the fulfilment of social responsibility into the development strategy and cooperate culture of the Company, organically integrate economic and social benefits as a value pursuit, and give back to the local community through various means.



PT. Well Harvest supported the repair work of the local church



PT. Well Harvest provided educational facility assistance



# **APPENDIX I: SUMMARY OF KEY PERFORMANCE INDICATORS**

KEY PERFORMANCE INDICATORS	2021	2020
Environment		
Emissions		
Exhaust gas		
Nitrogen oxides (tonnes)	9,415	10,773
Sulfur dioxide (tonnes)	19,775	22,117
Particulates (tonnes)	761	824
Fluoride (tonnes)	171	159
Wastewater		
Ammonia nitrogen (tonnes)	7	7
Total nitrogen (tonnes)	71	88
Chemical oxygen demand (tonnes)	219	222
Greenhouse gas ("GHG")		
Total GHG emissions (scope 1&2) (ten thousand tonnes of CO <sub>2</sub> equivalent) <sup>1</sup> Scope 1 Total direct GHG emissions (ten thousand tonnes of CO <sub>2</sub>	7,810	7,611
equivalent) <sup>2</sup> Scope 2 Total indirect energy GHG emissions (ten thousand tonnes	5,139	5,003
of CO <sub>2</sub> equivalent) <sup>3</sup> GHG emission intensity (tonnes of CO <sub>2</sub> equivalent/tonne of production	2,731	2,608
capacity per annum)	12.19	11.78
Solid waste		
Non-hazardous waste <sup>4</sup>		
Total non-hazardous waste generated (ten thousand tonnes) Non-hazardous waste intensity (tonnes/tonne of production capacity	716	851
per annum)	1.11	1.32
Hazardous waste⁵		
Total hazardous waste generated (ten thousand tonnes) Hazardous waste intensity (tonnes/tonne of production capacity per	1,766	1,872
annum)	2.73	2.90
Use of resources		
Energy		
Total energy consumption (TWh) <sup>6</sup> Energy consumption intensity (MWh/tonne of production capacity	196	186
per annum)	30.32	28.74
Total electricity consumption (TWh) <sup>7</sup>	82	82
Total steam consumption (ten thousand tonnes)8	3,301	3,275
Water		
Total water consumption (ten thousand cubic meters) Water consumption intensity (cubic meters/tonne of production	20,181	17,894
capacity per annum)	31.24	27.70



KEY PERFORMANCE INDICATORS	2021	2020
Environment		
Packaging materials <sup>9</sup>		
Wood products		
Total consumption (tonnes)	3,407	2,010
Intensity (tonnes/ten thousand tonnes of finished products)	50.70	32.32
Paper products		
Total consumption (tonnes)	769	574
Intensity (tonnes/ten thousand tonnes of finished products)	11.45	9.23
Plastic products		
Total consumption (tonnes)	314	277
Intensity (tonnes/ten thousand tonnes of finished products)	4.68	4.46
Metal products		
Total consumption (tonnes)	159	127
Intensity (tonnes/ten thousand tonnes of finished products)	2.37	2.03

### Note:

- 1. The list of greenhouse gases of the Group includes carbon dioxide and greenhouse gases produced by refrigerants. GHG emissions are presented in carbon dioxide equivalent.
- 2. Scope 1 included the GHG emissions involved in the consumption of stationary sources and consumption of refrigerants. The emission data were calculated based on the method and relevant conversion factor for greenhouse gas emissions of enterprises set out in the Requirements of the Greenhouse Gas Emission Accounting and Reporting-Part 4: Aluminum Smelting Enterprises issued by the Standardization Administration of the PRC and Appendix 2: Reporting Guidance on Environmental KPIs of the Stock Exchange.
- 3. Scope 2 included the GHG emissions involved in the purchased electricity. The emission data were calculated based on the average carbon dioxide emission factor of regional power grids in China published by National Development and Reform Commission, the People's Republic of China.
- 4. Non-hazardous wastes include: desulfurization gypsum, slag, ash, scrap carbon anode, electrolyte powder, electrolyte blocks, construction waste and waste accessories.
- 5. Hazardous wastes include: waste lubricants, waste denitration catalyst, coal tar, red mud, scrapped paint barrel and scrapped oil barrel.
- 6. The total energy consumption includes the consumption of coal and diesel oil for generating electricity and steam, natural gas for producing aluminum products, and purchased electricity. The emission data were calculated with reference to the conversion factor set out in the Requirements of the Greenhouse Gas Emission Accounting and Reporting-Part 4: Aluminum Smelting Enterprises issued by the Standardization Administration of the People's Republic of China.
- 7. The total electricity consumption of the Group includes the self-generated electricity and purchased electricity. All self-generated electricity of the Group was for internal use.
- 8. All steam of the Group was self-generated, part of it was for internal use, and the rest was sold to external parties.
- 9. The finished products involving the consumption of packing materials are the aluminum alloy processing product of the Group.



KEY PERFORMANCE INDICATORS	2021	2020
Social		
Employment		
Number of employees (turnover rate)		
Gender		
Male	35,945 (10)	36,078 (9)
Female	6,705 (10)	6,367 (7)
Age		
Below 30	7,602 (9)	8,489 (9)
30-50	31,585 (10)	30,985 (9)
Over 50	3,463 (10)	2,971 (2)
Region		
Mainland China	39,011 (10)	38,929 (9)
Indonesia	3,603 (9)	3,509 (8)
Guinea <sup>1</sup>	29 (7)	0 (0)
Hong Kong	7 (14)	7 (0)
Type of employment		
Full-time	42,650 (10)	42,445 (9)
Part-time	0 (0)	0 (0)
Average training hours of employee (Percentage of trained employees)		
Gender		
Male	8 (100)	416 (100)
Female	8 (100)	416 (100)
Rank of employee		
Senior management	8 (74)	208 (100)
Middle management	8 (94)	416 (100)
Base-level management	8 (87)	416 (100)
Frontline employees	8 (100)	416 (100)

# Notes:

1. From this year, the management and employees of the Group began to enter Guinea



KEY PERFORMANCE INDICATORS	2021	2020	2019
Health and safety			
Number of work-related fatalities (persons)	0	0	0
Number of work injuries (persons)	0	0	0
Lost days due to work injury (days)	0	0	0

KEY PERFORMANCE INDICATORS	2021	2020
Major suppliers		
China	122	64
Others <sup>1</sup>	3	5

# Notes:

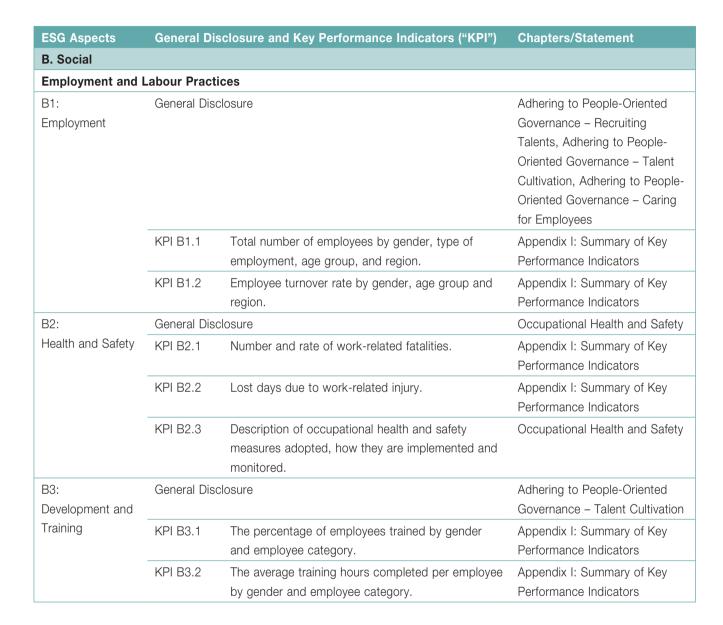
1. Other countries include Australia and Guinea

# **APPENDIX II: ESG REPORTING GUIDE CONTENT INDEX**

ESG Aspects	General Di	sclosure and Key Performance Indicators ("KPI")	Chapters/Statement	
A. Environment				
A1: Emissions	General Disclosure		Promoting Green Production  - Prevention and Control of Pollution	
	KPI A1.1	The types of emissions and respective emissions data.	Appendix I: Summary of Key Performance Indicators	
	KPI A1.2	Direct (Scope 1) and energy indirect (Scope 2) greenhouse gas emissions and, intensity.	Appendix I: Summary of Key Performance Indicators	
	KPI A1.3	Total hazardous waste produced and intensity.	Appendix I: Summary of Key Performance Indicators	
	KPI A1.4	Total non-hazardous waste produced and intensity.	Appendix I: Summary of Key Performance Indicators	
	KPI A1.5	Description of emissions target(s) set and steps taken to achieve them.	Promoting Green Production  - Prevention and Control of Pollution, Promoting Green Production – Energy Conservation and Consumption Reduction, Promoting Green Production – Green Office Promoting Green Production  - Responding to Climate Change	
	KPI A1.6	Description of how hazardous and non-hazardous wastes are handled, and a description of reduction target(s) set and steps taken to achieve them.	Promoting Green Production  - Prevention and Control of Pollution, Promoting Green Production – Waste Management, Promoting Green Production – Green Office	



ESG Aspects	General Di	sclosure and Key Performance Indicators ("KPI")	Chapters/Statement	
A2: Use of Resources	General Dis	closure	Promoting Green Production  - Energy Conservation and Consumption Reduction	
	KPI A2.1	Direct and/or indirect energy consumption by type in total and intensity.	Appendix I: Summary of Key Performance Indicators	
	KPI A2.2	Water consumption in total and intensity.	Appendix I: Summary of Key Performance Indicators	
	KPI A2.3	Description of energy use efficiency target(s) set and steps taken to achieve them.	Promoting Green Production  – Energy Conservation and Consumption Reduction, Promoting Green Production – Green Office	
	KPI A2.4	Description of whether there is any issue in sourcing water that is fit for purpose, water efficiency target(s) set and steps taken to achieve them.	Promoting Green Production  - Prevention and Control of Pollution, Promoting Green Production – Green Office	
	KPI A2.5	Total packaging material used for finished products and with reference to per unit produced.	Appendix I: Summary of Key Performance Indicators	
A3:	General Dis	closure	Promoting Green Production	
The Environmental and Natural Resources	KPI A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them.	Promoting Green Production	
A4: Climate Change	General Dis	closure	Promoting Green Production - Responding to Climate Change	
	KPI A4.1	Description of the significant climate-related issues which have impacted, and those which may impact, the issuer, and the actions taken to manage them.	Promoting Green Production – Responding to Climate Change	





ESG Aspects	General Disclosure and Key Performance Indicators ("KPI")		Chapters/Statement	
B4: Labor Standards	General Dis	closure	Adhering to People-Oriented Governance – Recruiting Talents	
	KPI B4.1	Description of measures to review employment practices to avoid child and forced labour.	Adhering to People-Oriented Governance – Recruiting Talents	
	KPI B4.2	Description of steps taken to eliminate such practices when discovered.	Adhering to People-Oriented Governance – Recruiting Talents	
Operating practic	es			
B5: Supply Chain	General Dis	closure	Pursuing Excellence in Quality – Supply Chain Management	
Management	KPI B5.1	Number of suppliers by geographical region.	Appendix I: Summary of Key Performance Indicators	
	KPI B5.2	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, how they are implemented and monitored.	Pursuing Excellence in Quality – Supply Chain Management	
	KPI B5.3	Description of practices used to identify environmental and social risks along the supply chain, and how they are implemented and monitored.	Pursuing Excellence in Quality – Supply Chain Management	
	KPI B5.4	Description of practices used to promote environmentally preferable products and services when selecting suppliers, and how they are implemented and monitored.	Pursuing Excellence in Quality – Supply Chain Management	
B6: Product Responsibility	General Dis	closure	Pursuing Excellence in Quality – Quality Management and Innovative Research, Pursuing Excellence in Quality – Sales and Services, Pursuing Excellence in Quality – Privacy Protection	
	KPI B6.1	Percentage of total products sold or shipped subject to recalls for safety and health reasons.	Pursuing Excellence in Quality Quality Management and Innovative Research	
	KPI B6.2	Number of products and service-related complaints received and how they are dealt with.	Pursuing Excellence in Quality – Sales and Services	
	KPI B6.3	Description of practices relating to observing and protecting intellectual property rights.	Pursuing Excellence in Quality – Sales and Services	
	KPI B6.4	Description of quality assurance process and recall procedures.	Pursuing Excellence in Quality  - Quality Management and Innovative Research	
	KPI B6.5	Description of consumer data protection and privacy policies, how they are implemented and monitored.	Pursuing Excellence in Quality – Privacy Protection	



ESG Aspects	General Di	sclosure and Key Performance Indicators ("KPI")	Chapters/Statement
B7: Anti-corruption	General Dis	closure	Pursuing Excellence in Quality – Anti-Corruption Practice
	KPI B7.1	Number of concluded legal cases regarding corrupt practices brought against the issuer or its employees during the reporting period and the outcomes of the cases.	Pursuing Excellence in Quality – Anti-Corruption Practice
	KPI B7.2	Description of preventive measures and whistle- blowing procedures, how they are implemented and monitored.	Pursuing Excellence in Quality – Anti-Corruption Practice
	KPI B7.3	Description of anti-corruption training provided to directors and staff.	Pursuing Excellence in Quality – Anti-corruption Practice
Community			
B8 : Community Investment	General Dis	closure	Caring for Social Well-Being
	KPI B8.1	Focus areas of contribution.	Caring for Social Well-Being
	KPI B8.2	Resources contributed to the focus area.	Caring for Social Well-Being



# ENVIRONMENTAL, SOCIAL 2021 AND GOVERNANCE REPORT

