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愛德新能源投資控股集團有限公司

Add New Energy Investment Holdings Group Limited (incorporated in the Cayman Islands with limited liability) Stock Code: 2623

ENVIRONMENTAL, SOCIAL AND GOVERNANCE REPORT



CONTENTS

About This Report		2
APPROACH TO SUSTAINABILITY Materiality Themes Our Stakeholder Engagemen		4 5 6
ABOUT OUR BUSINESS Business Perspective Environmental and Social Exp Environmental and Safety Lic		7 7 8 8
INTERNAL AND EXTERNAL GOV Supply Chain Management Product Responsibility Technology and Intellectual P Privacy Protection		9 10 11 12 13
HARMONY WITH PEOPLE Safety and Health Employment Relations Training and Development Community Engagement		14 14 16 20 23
HARMONY WITH ENVIRONMEN Responding to Climate Chan Resource Management Biodiversity and Land Use		24 24 25 35
APPENDIX ESG Reporting Guide Conten	nts Index	37 37

About This Report



Blossoming Flowers (Yangzhuang Iron Mine)

Reporting Standard

Add New Energy Investment Holdings Limited (the "Company") and its subsidiaries (collectively the "Group" or "we") are pleased to present our Environmental, Social and Governance ("ESG") Report (the "Report") to our stakeholders. The contents of the Report comply with Appendix C2 – Guidelines on Environmental, Social and Governance Reporting (the "ESG Reporting Guide") of the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited (the "Stock Exchange"). Our sustainability approach emphasises workplace health and safety, environmental protection and building harmonious relationships with the communities in which we operate, and we hope to inspire the industry to join in the movement towards greener mines.

Reporting Scope

The information covered in the Report reflects the sustainable development performance of the Group's Yangzhuang Iron Mine and Zhuge Shangyu Ilmenite Mine in Shandong Province, the PRC, from 1 January 2024 to 31 December 2024 (the "Reporting Year"), unless otherwise stated. Since the exploration, blasting and mining work at Zhuge Shangyu Ilmenite Mine is undertaken by outsourced contractors and is therefore excluded from the reporting scope of the Report. In addition, the Qinjiazhuang Ilmenite Mine and Gaozhuang Shangyu Ilmenite Mine owned by the Group had no production operation during the Reporting Year, therefore are excluded in the reporting boundary of the Report.

About This Report

Reporting Principles

In preparation of the Report, due diligence has been taken to adhere to the Reporting Principles stipulated in the ESG Reporting Guide:

- "Materiality" The materiality assessment detailed has ensured that the Report addresses the most material ESG topics pertaining to our businesses.
- "Quantitative" The Report strives to disclose quantitative metrics and related targets whenever possible, to demonstrate our impact. The Report will disclose both the data of the Reporting Year and the previous reporting year to facilitate data comparison.
- "Balance" The Report presents an unbiased representation of our ESG management approach and performance. It avoids misleading omissions and presentation.
- "Consistency" Whenever deemed material, the Report details the standards, tools, assumptions and/or source of conversion factors used, as well as explanations of any inconsistencies to previous reports.

For more information about our social and environmental responsibility, please refer to the Group's official website: addnewenergy.com.hk

Confirmation and Approval

The information contained in the Report has been obtained from official documents, statistics and management operating information collected by the Group. The Report was approved by the Board of Directors (the "Board") of the Company on 28 March 2025.

Opinion and Feedback

The Group values the opinions of its stakeholders. If any stakeholder has any feedback or suggestions on the Report, please send them to the Group's principal place of business in Hong Kong at Room 3105, 31st Floor, Tower 6, Gateway House, Harbour City, 9 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong. Your feedback or suggestions will greatly assist the Group in continuously improving its ESG performance.

Approach to Sustainability

Our Management Approach

The Board has overall responsibility for overseeing the Group's ESG-related issues, including policies, practices, performance and risk management. To assess and review ESG issues promptly, the Board will hold regular board meetings. Meanwhile, the Board closely monitors and keeps abreast of the latest ESG related laws and regulations so as to stay fully informed of any changes in such laws and regulations and maintain timely update of the ESG measures of the Company. This will safeguard our compliance with the latest regulatory requirements. To comply with the ESG requirements of the Stock Exchange, the Board will take responsibility for overseeing the preparation of the ESG report and review the content and quality of the ESG report to ensure that it conforms to regulatory and professional standards.

Our Sustainability Mission

The Group's management integrates the concept of sustainable development into its corporate operation and daily operation, and actively responds to the carbon neutrality target set out in the 14th Five-Year Plan of China. In 2021, the Group joined the Greater Bay Area Carbon Neutrality Association as a founding member. During the Reporting Year, we will continue to actively develop the new energy industry, fully implement the corporate mission of clean energy construction and operation, and strive for the green transformation of the region and the country.

Our Achievement

The Group was awarded the InnoESG Care Prize in 2021 as a recognition of the Group's ESG performance. The InnoESG Prize is organised by a consortium of companies, including the SocietyNext Foundation, and is designed to encourage companies to innovate and transform their core business by adapting to, or incorporating, the sustainability/ ESG dimension. The Group has been committed to achieving sustainable development for many years. The Group was recognised by the judging panel for its efforts over the years in realising a sustainable society, working with stakeholders to create a sustainable future through Corporate Social Responsibility (CSR) programmes and a range of environmental initiatives.



Add New Energy is one of the Founding Members of GBA Carbon Neutrality Association



Add New Energy was awarded the InnoESG Care Prize 2021

Approach to Sustainability

Materiality Themes

In order to identify the material themes to be disclosed in the Report, we conducted stakeholder engagements. These engagements aim to understand our stakeholders' concerns, prioritise the material topics, and decide the material themes. We conducted surveys and host workshops during this process, especially by engaging with our employees and department heads. Four material themes with prioritised topics are confirmed: About Our Business, Internal and External Governance, Harmony with People and Harmony with the Environment.

ESG aspects set out	in the ESG Reporting Guide	Material Themes	
A. Environmental	A1: Emission		
	A2: Use of Resources		
	A3: The Environment and Natural Resources	 Harmony with the Environment 	
	A4: Climate Change	-	
B. Social	B1: Employment		
	B2: Health and Safety	-	
B3: Development and Training		 Harmony with People 	
	B4: Labour Standards	_	
	B5: Supply Chain Management		
B6: Product Responsibility		- Internal and External Governance	
	B7: Anti-corruption		
	B8: Community Investment	Harmony with People	

Approach to Sustainability

Our Stakeholder Engagements

We value the advice of our internal and external stakeholders, and strive to improve the channels of communication and engagement with our stakeholders. By adopting more ways, we deepen our understanding of the perspectives of our stakeholders, including investors, customers, suppliers, employees and the community, on our business in order to help us become a sustainable business. During the Reporting Year, we continued to communicate with our stakeholders through the following channels:

Stakeholders	Stakeholder Category	Communication Channels/Methods
Investors	Shareholder	Meeting of Shareholders Performance Report Online media and roadshows
Customers	Steel manufacturers	Service hotline Online media
Suppliers and Contractors	Facility supplier Contractors	Supplier questionnaire Site visits to suppliers
Employees	Frontline workers Administrative staffs Senior managers Directors	Vocational training and development of employees Launching of staff activities Satisfaction survey
Community and Non-governmental Organizations	Neighbouring counties	Community public welfare project Organise employees to participate in volunteer activities
Research Institutes and Associations	Academic institutions Industry associations	Research collaborations Research investments Participate in industry associations and forums
Government and Regulatory Agencies	Local governments	Thematic presentations Disclosure of information

About our Business

Business Perspective

We are the largest privately-owned producer of ilmenite in Shandong Province, the People's Republic of China (the "PRC"). The mines currently owned by us include Yangzhuang Iron Ore Mine, Zhuge Shangyu Ilmenite Mine, Oinjiazhuang Ilmenite Mine and Gaozhuang Shangyu Ilmenite Mine. We are principally engaged in the exploration, mining and processing of iron ore and ilmenite, with a focus on the production and sale of iron ore concentrates and the development of the business of titanium concentrates. Our iron and titanium concentrate products are primarily sold to producers of iron ore and steel.



During the Reporting Year, our principal operations were focused on the Shangyu Ilmenite Mine in Zhuge. In order to further safeguard the operation of our mines, we seized the favourable opportunity to make full use of our existing resources and intensified the trading of foreign mines. During the Reporting Year, we processed 1.01 million tonnes of Brazilian ore and produced 829,100 tonnes of iron ore concentrates.

About our Business

Environmental and Social Expenditures

At all stages of our mine projects, from planning to completion, we have managed well the positive or negative impacts of the projects (please refer to the sections on "Harmony with People" and "Harmony with the Environment" for details). During the Reporting Year, in order to fulfill our commitment to sustainable development, we have cumulatively invested RMB12.2441 million in conserving natural resources and rebuilding ecological systems.

Our environmental contributions include, but are not limited to:

- Cooperation with scientific and research institutions to improve ore processing techniques and preserve mineral resources;
- Innovation of patented tailing dry discharge system saves water resources and minimizes the risk of tailing dam break;
- Afforestation to offset greenhouse gas ("GHG") emissions; and
- Reclamation of fields to improve soil fertility.

Our social contributions include, but are not limited to:

- Environmental stewardship for the surrounding community; and
- Poverty alleviation, education system construction and sponsorship for community activities.

Environmental and Safety Licenses

Our applications for new or renewal of existing exploration and mining rights are subject to approval by the relevant local government authorities, including the passing of environmental impact assessments and the issuance of production safety permits. In addition to confirming our compliance with relevant laws and regulations, the application process also provides us with an opportunity to reaffirm our corporate responsibility and strong commitment to sustainable development.

We currently own the exploration and mining rights of the Zhuge Shangyu Ilmenite Mine, which has an annual mining capacity of 800,000 tonnes.

The mining license for Zhuge Shangyu Ilmenite Mine has been successfully obtained, while the process for the safety production permit is currently underway. Therefore, there were no mining operations conducted during the Reporting Year.

According to the relevant laws and regulations, our third-party contractors currently have legal permits for mine blasting work and can legally carry out blasting work at the Zhuge Shangyu Ilmenite Mine.

Ethics and Conduct

We believe that honesty, integrity and justice are the cornerstones of the long-term development of the Group. All staff should consciously safeguard the Group's reputation and overall interests, and are strictly prohibited from bribery, extortion, fraud, money laundering, disloyalty and corruption. To this end, we have formulated the "Integrity Pledge", "Integrity Agreement" and "Disciplinary Regulations" to prevent, monitor and report any disciplinary offences that may occur in the daily operation of the Group. In the event that any employee violates the relevant regulations, we will immediately investigate and dismiss them by the management system; if any employee is suspected of committing a crime, they will be transferred to the judicial authorities to pursue criminal liability; if any employee has caused any economic loss, they should bear all the compensation responsibilities.

The Board is committed to regularly monitoring and reviewing the Group's anti-corruption programme and ensuring that all anti-corruption controls are working effectively. During the Reporting Year, the Board participated in a training programme on anti-corruption topics for listed companies, and we also conducted anti-corruption training for our general staff to enhance their awareness and knowledge of anti-corruption.

Since the foundation of the Group and under good internal governance, we have not received any report or complaint case of malpractice against the Group or its staff.

O Legal Cases

Our Complaints Hotline is open to the public at all times, and stakeholders may feedback their suggestions or complaints through our hotline, email or letter. We are fair and responsive to all feedback, and all personal information will be treated in the strictest confidence to provide full protection for their right of privacy.

Supply Chain Management

As one of our most important stakeholders, suppliers are the cornerstone of our sustainable development. Since the activities of our suppliers will indirectly affect our environmental and social performance, we have formulated corresponding supplier management policies and management practices, such as the "Procurement Management Regulations", "Supplier Management Regulations", "Contractor Management Regulations" and "Qualified Supplier Evaluation Form", to ensure that the activities of our suppliers comply with the requirements of the local regulatory authorities as well as our supplier selection criteria. The principal supplier management practices include supplier questionnaire surveys and site visits to their factories, thereby ensuring that our suppliers have fulfilled their responsibilities in such areas as product quality, environmental protection, employee benefits, and community development. At the same time, we are committed to building a transparent supply chain by requiring all suppliers and contractors to sign an "Integrity Agreement" and to comply with the "Disciplinary Management Requirements" in the course of cooperation so that our business collaborations proceed with integrity and compliance practices.

We are committed to decreasing the environmental impact of our suppliers, an example of which is our focus on reducing the carbon dioxide emissions generated by the vehicles used by our suppliers to transport their products to us. Currently, we strive to select our production equipment suppliers and office facility suppliers from within Shandong Province, respectively, thereby minimizing unnecessary indirect greenhouse gas emissions during our transportation.

Besides our facility suppliers, we also highly appreciate the well-being of our contractors. As one of our most important suppliers, blasting and mining contractors are responsible for blasting and mining works at Yangzhuang Iron Mine. We regularly hold safety meetings every ten days, review the work safety together with them, and enhance the emergency response capabilities of the workers in the event of a sudden emergency, so that production activities proceed safely.

Number of suppliers by geographical region		
	2024	2023
Mainland China	139	146
Other regions	0	0

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Product Responsibility

Production Quality Assurance

Producing quality products not only brings confidence to our stakeholders but also represent the goal we continuously strive to achieve. Based on the cornerstone of internal governance and external supply chain management, we implement a stringent quality assurance management system to further improve the quality of our products. We firstly ensure that production activities are carried out in a disciplined manner by our employees, and secondly, we carry out daily inspections and regularly overhaul and upgrade our production equipment to maintain the operating stability of our production lines. In addition, we provide our employees with job skills training to enhance their vocational skills and their awareness of quality control throughout the process. Through the above quality assurance methods, we eliminate the sale of any substandard products to the market, and these initiatives help ensure all of our products comply with the regulations and rules of the relevant regulatory authorities and meet the needs of our customers.

After-sales Service

To improve our after-sales service, we formulate relevant complaint and monitoring mechanisms for our customers and regulatory bodies respectively. For our customers, to establish a long-term harmonious and stable relationship, we adopt a responsible and proactive attitude and endeavour to solve any problems related to product quality. When a product quality problem arises, we will take samples of the problematic product and test it, and if the quality problem is caused by our company, we will assume the responsibility according to the relevant system and compensate for the loss caused to the customer.

Under the above management system, during the Reporting Year, we did not receive any complaints or returns regarding the quality of our products, nor did we recall any of our sold products due to any safety or health concerns.



To compensate customers by the relevant regulations

Technology and Intellectual Property

Technology Innovation

To improve the quality of ilmenite concentrates and strengthen the competitiveness of the industry, we maintain close co-operation with the Institute of Process Engineering of the Chinese Academy of Sciences, and at the same time introduce the latest ore processing technology from the Siberian Branch of the Russian Academy of Sciences. These innovative technologies not only improve end-product quality and value, but also effectively reduce processing costs.

Protection of Intellectual Property Right

In order to strengthen the protection of intellectual property rights and regulate the management of intellectual property rights, we have established an intellectual property management department and related internal policies. Our intellectual property rights include:

- Patent rights and technical secrets;
- Trademark right and know-how;
- Copyright (including computer software and programmes); and
- Other intellectual property rights listed in relevant national laws and regulations.

In particular, we were awarded a national patent in China for our tailings dry-drainage system, which greatly enhances our efficient use of water and mineral resources.

During the Reporting Period, the Company received:

- **3** utility model patents were granted, and;
- **8** invention patents were obtained.

We encourage our employees to realize their subjective initiative and creative power, and promote the application of scientific and technological achievements in their daily work. All of our employees are expected to raise awareness of IP management within their areas of responsibility.

During the Reporting Year, the Group did not experience any breach of intellectual property rights.

Privacy Protection Customer Privacy

In order to protect the privacy of our clients, we have established a personal information management system following the regulations on file management and confidentiality, and ensure our clients' files are managed and encrypted by dedicated personnel.

When handling confidential information, our staff are required to comply with the "Staff Responsibility for Integrity and Self-discipline Statement" and relevant laws and regulations. To maintain confidentiality, we only collect and retain necessary information about our business partners and customers, and obtain informed consent from stakeholders before collecting data to ensure that they understand the purpose of data collection and how it will be used.

"Harmony with people" is one of the core values of the Group, we always pay attention to and protect the rights of employees, continue to improve the employee welfare system, and strengthen the management of employee health and safety. We are committed to creating a fair, open, harmonious and inclusive working environment, thus enhancing the employees' sense of belonging to the Group.

Safety and Health

We deeply understand the inherent dangers of the mining industry, so we put the safety and health of our employees in the first place. Based on the characteristics of our work, we have consolidated the possible risks to the safety and health of our personnel, and have formulated relevant safety management policies such as the "Safety Inspection Work Management Regulations" and the "Labour Protective Equipment Issuance and Management System". We believe that by strengthening various forms of safety management, we can protect the occupational safety and health of our employees, avoid and minimise the occurrence of safety accidents, improve the safety of the Group's property, and prevent and control the hazards of occupational diseases.



Fire drill sites



Fire Safety Awareness Month – Safety Knowledge Competition

Number of deaths due to work in the past three years including the Reporting Year

Number of working days lost due to work injury

Adhering to the core production safety policy of "Safety First, Prevention First, Comprehensive Management", the Group has established a responsibility system for production safety at all levels of leadership, functional departments, engineers and technicians, and post operators in the production process. Under this production safety responsibility system, we conduct regular inspections of the overall production process to eliminate major accidents. If any responsible person is found to be in dereliction of duty, he or she will be held accountable.

The Group's approach to the implementation of our employee safety policy to ensure the occupational safety of our employees is detailed below:

- Developing emergency rescue plans and regularly holding exercises;
- Holding safety meetings regularly with our blasting and mining contractors;
- Holding regular safety meetings;
- Organising physical examinations on occupational hazards for employees before, during and after operations;
- Providing education and training for employees;
- Setting up emergency sheltering system, monitoring and inspection system, personnel location system (PLS), communication system, water and air supply system for the underground personnel;

- Maintaining underground drainage system from the dangers of underground water flooding;
- Establishing a publicity room and publicity corridor for safety education; and
- Recording the distribution and condition of personal protective equipment (PPE).

We not only focus on the physical health of our employees by providing them with a safe working environment, but also their mental health by providing them with mental health management, which includes regular communication with our employees and organising health seminars. Under our comprehensive health management system, we did not have any work-related injuries or absences from work during the Reporting Year, and our employees were able to maintain good physical and mental health.

Employment Relations

We place great importance on the human resource management of the Group, and persist in our people-oriented management concept. In order to regulate the recruitment process and hiring system, avoid unfair recruitment problems and enhance the core competitiveness of the Group, we have formulated stringent recruitment, hiring, and related administrative procedures, including relevant recruitment management regulations such as the "Recruitment Management Regulations", "Salary Management Regulations" and "Training Management Regulations", etc. The Group mainly adopts an open recruitment mode, with recruitment being conducted by the Human Resources Department and supervised by the Supervisory Department. If any recruitment irregularities are detected, including the employment of minors under the age of 16, forced labour or illegal labour, the human resources department and the supervisory department will jointly investigate, implement and deal with the matter according to the law.

To further establish a harmonious relationship with employees, we provide equal career development and promotion opportunities to our employees, and treat employees of different genders, ages, regions and cultural backgrounds fairly and equitably. At the same time, in order to improve the enthusiasm and creativity of all employees, the Group encourages employees to give full play to their potential. And set up a reward mechanism to reward employees according to the completion of their performance.

To protect the legitimate rights and interests of all employees and provide them with work efficiency, we strictly comply with the international labour laws and the labour standards of the regions where we are located, and have formulated several internal system documents, such as the "Employee Welfare Management Regulations", "Attendance Management Regulations", "Performance Management Measures", "Incentive and Merit Assessment Management Regulations", etc., to standardise our management.

During the Reporting Year, the Group has not experienced any incidents of labour discrimination, harassment, child labour, forced labour and other violations of labour employment regulations.

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Employee Activities

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In order to create a more favourable working atmosphere, to balance the daily work and life of the staff. The Group regularly holds a series of activities for employees, such as educational support events for employees' children, luncheons on the Women's Day, visits to employees' parents during the Mid-autumn Festival, knowledge competition during Fire Safety Awareness Month, and other staff activities. We hope that through different types of staff activities, we can promote the interaction and communication between employees, improve the ability to collaborate with each other, so as to enhance the cohesion of all employees.



Educational Support Events for Employees' Children



Luncheons on the Women's Day



Visits to Employees' Parents during the Mid-autumn Festival



Safety Knowledge Competition

By the end of the Reporting Year, we had a total of 147 active employees (excluding contractors), the distribution of which is characterised below:

Key Performance	2024	2023
Total	147	147
By Gender		
Male	124	124
Female	23	23
By Employee Category		
Directors and above	7	7
Senior Managers	11	11
Administrative Staff	32	32
Workers	97	97
By Age Group		
Below 31	17	17
Between 31-40	56	56
Between 41-50	40	40
Above 50	34	34
By Geographical Region		
Mainland China	147	147
Other regions	-	-

By Gender 16% 84% By Gender Male Female





By Age Group







Turnover Rate

By the end of the Reporting Year, our turnover rate was 35.4%.

Turnover Rate (%)	2024	2023
Total	35.4%	35.4%
By Gender		
Male	31.4%	31.5%
Female	56.5%	56.52%
By Age		
Below 31	-	-
Between 31-40	3.6%	3.6%
Between 41-50	30.0%	30.0%
Above 50	111.8%	52.78%
By Geographical Region		
Mainland China	35.4%	52.0%
Other regions	-	-

The HR department of the Group organises seminars, communications and distributes employee satisfaction surveys to employees annually, and collects, analyses, discusses and summarises the results of the surveys in order to formulate and implement targeted improvement plans. The survey questionnaire includes employees' satisfaction with the Group's management, policies, culture, welfare benefits and environmental atmosphere. Communication through staff seminars and anonymous staff surveys helps the management to better understand its staff, thereby reducing staff turnover.

Training and Development

We encourage our employees to continue their education and enhance their professionalism after joining our company, therefore, we continue to improve our employee training system. Each year, we update our training programmes based on our overall business planning, business development needs and feedback from staff surveys. In the Reporting Year, we elaborated our staff training system and launched specialised training courses for different types of talents, in order to enhance the Group's competitiveness in terms of talent and promote the sustainable development of the enterprise. Furthermore, we have revised the "Staff Training Management Regulations", providing a diversified range of staff training programmes to support employees' continuing development.

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New Employee Orientation



Emergency Skills and Knowledge Training

During the Reporting Year, the coverage rate of staff participation in occupational training was 95%, and the average number of hours of occupational training was 5.14 hours. We have implemented our policy of equal treatment of staff and there is no gender discrimination.

During the Reporting Year, the Group achieved the following staff development and training targets.

	Percentage o receive	f staff that ed training	Average tra completed pe	-
	2024	2023	2024	2023
By Gender				
Male	96 %	100%	5.58	2.097
Female	91%	100%	1.22	10.435
By Employee Category				
Directors and above	100%	100%	7	7
Senior Managers	100%	100%	11	11
Administrative Staff/Workers	95%	100%	122	129

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Community Engagement

We always regard social responsibility as an important part of our corporate development strategy, and therefore continue to pay attention to and respond to key community development issues. In order to deepen our partnership with local communities, we are committed to creating a win-win situation, building a green and harmonious mining environment, and at the same time promoting the sustainable development of the local environment, society and economy.

Responding to Climate Change

We actively respond to international and domestic policies such as the Paris Agreement and the "Chinese government's National Climate Change Adaptation Strategy 2035", in order to achieve the goals of "carbon peaking" and "carbon neutrality". Furthermore, we have initiated a comprehensive risk assessment and management programme across the Group with reference to the disclosure framework recommended by the Task Force on Climate-related Financial Disclosure (TCFD).

Governance

We integrate ESG governance into the Group's strategic development, with each department head regularly reviewing and updating the Group's development plans, activities, targets and objectives.

Strategy

In response to the trend of global climate change, the Group understands that the mutual balance between energy utilisation and world climate change is of great significance to our long-term sustainable development. Therefore, we co-operate with scientific research institutes to enhance the processing technology of ore resources and the efficiency of energy utilisation, so as to adapt to the transformation of a low-carbon economy and slow down the pace of climate change.

Risk Management

We recognise that climate change may affect the Group's operations and business. Climate change can lead to a higher frequency of extreme weather events, which may affect the safety and health of our employees and our daily operations. To address the challenges of climate change, we will endeavour to improve energy efficiency and enhance resource recycling to reduce emissions. We will consider developing climate-related policies to identify risks and opportunities in the low-carbon transition, including physical risks and transition risks. In addition, we will keep abreast of the latest policies and standards to ensure that the Group's business meets the relevant requirements.

Metrics and Targets

We have compiled and disclosed statistics on emissions of air pollutants, greenhouse gases, energy consumption, water consumption and waste generation in the Reporting Year. In the future, we will continue to improve the collection and analysis of relevant data to demonstrate our concerns on climate change-related issues more comprehensively.

Resource Management



Flowers blossom in the Spring Season (Yuanzhuang Iron Mine)

The natural environment is our fundamental basis for survival and development. In the process of development, the Group adheres to the concept of "protection in development, development in protection", and carries out environmental management for production processes with potential environmental impacts to ensure and maintain a good surrounding ecological environment. To provide a green working environment for our employees, a green living environment for our neighbouring communities, and to enhance the international competitiveness of our industry, we have proactively initiated environmental management work within the Group and in the neighbouring communities. During the Reporting Year, the Group did not find any major environmental-related incidents of non-compliance.

To minimise energy consumption, we strictly comply with the Energy Conservation Law of the People's Republic of China and other relevant laws and regulations in the places where we operate, and have formulated the corresponding "Energy Management Measures" and set up an energy control organisation and an energy conservation leading group to improve the Group's management system, and to manage and supervise the rational use of energy by the enterprise.

During the Reporting Year, equipment with outdated production capacity within our plant premises was eliminated and new equipment such as high gradient magnetic separators, cyclones and filters were installed. This measure improved work efficiency and reduced energy consumption, resulting in a reduction in electricity consumption of approximately 8,353,727 kilowatt-hours during the Reporting Year. Meanwhile, the Company used advanced mine processing equipment to process imported Brazilian ores. The Shangyu plant processed 1.01 million tonnes of Brazilian ores and produced 829,100 tonnes of iron ore concentrates. Due to the decline in processing volume, the scale of related production activities also decreased during the Reporting Period. Such factor resulted in a decline in energy consumption, greenhouse gas emissions, and other environmental indicators as compared to last year.

Resource Consumption and Intensity	Units	2024	2023
Water (mining, processing, municipal use)	m ³	171,068.00	499,775.000
Water intensity (per tonne output)	m³/tonne	0.169	0.410
Electricity (mining, processing, municipal use)	kWh	10,790,445.00	19,144,172.000
Electricity intensity (per tonne output)	kWh/tonne	10.864	15.720
Petrol (transportation use)	GJ	368.95	814.164
Petrol intensity (per tonne output)	GJ/tonne	0.0004	0.001
Diesel (transportation use)	GJ	9,663.58	15,235.762
Diesel intensity (per tonne output)	GJ/tonne	0.010	0.013
Total Energy	GJ	10,032.53	16,049.926
Total Energy Intensity	GJ/tonne	0.010	0.013

Mining Tailing Dry Discharge **Ore Processing** Exploration (outsourced) Crushing Centrifugation • • • Blasting (out-sourced) • Grinding Treated water storage • • Magnetic Separation Mining (out-sourced) • Tailing sands storage Dehydration • Transportation • Ore Storage •

Our production activities, which primarily consist of mining, ore processing and tailings dry drainage management, are associated with a variety of potential environmental impacts.

Potential impacts on air quality Carbon dioxide	 Particulate matters (PM) produced and emitted during mining and ore processing stages period GHG produced and emitted in all operation stages period Air pollutants produced and released during blasting and ore transport
Potential impacts on water resources	 Reduction of groundwater content during exploration and blasting Change of surface and groundwater dynamics during exploration and blasting Degradation of the quality of water resources during ore processing
Potential impacts on land	 Land area occupied by treated water and tailings storage Change in geological structure during exploration and blasting
Potential impacts on ecosystem	 Loss of flora and fauna habitat within and outside the mine area Decreased abundance and diversity of flora and fauna, and declining populations Ecosystem fragmentation

We have taken effective measures to avoid and minimise the above potential environmental impacts, which are described in the following sections.

Water Resources Management



Spring lake (Yangzhuang Iron Mine)

Zero sewage discharge – As one of the first licensed green mines in China, this reflects that we have been applying the basic principle of "conserving water and using water for multiple purposes". Zero sewage release refers to the wastewater from the ore production process and domestic sewage, which are fully collected and treated in our tailings dry discharge system and domestic sewage treatment facilities respectively.

We strictly comply with all local regulations regarding wastewater discharges. During the Reporting Year, the sewage compliance discharge and disposal rate was 100%, and no major incidents of non-compliance related to wastewater discharges were detected.

We do not have a problem with water abstraction. We aim to improve water efficiency and reduce water consumption by implementing the following directional objectives:

- Using reclaimed water in daily operations;
- Reducing water consumption by increasing the use of water saving devices;
- Maintaining water intensity levels by increasing the proportion of water saving devices;
- Using closed-circuit water, the plant achieves zero wastewater discharge, which greatly saves water.

Our production process uses physical processing methods to minimise any impacts that may be caused by challenges from chemical processing methods. In addition, we have also invented a tailings dry drainage treatment system to help us achieve zero wastewater discharge and maximise the use of tailings sand. Our water recycling is shown in the diagram below:



- 1. Collecting groundwater, rainwater and reservoir water generated by the underground mining process for use as mining water and spraying water to reduce dust, and part of the well water is used for domestic purposes;
- 2. Collecting water is mainly used in the ore processing workshop, and ore processing wastewater will be collected in the water recycling equipment;
- 3. Using the tailings dry drainage system to treat the wastewater collected in the ore processing workshop, separating the water from the tailings sand and storing the water in the reuse pond for recycling in the ore processing;



- 4. Part of the water from the reuse basin will be used in the artificial lake;
- 5. Furthermore, domestic sewage is treated in our own treatment facilities and then used for greening and irrigation in the mine area.

Our tailings dry drainage system has obtained a national patent, and our treatment capacity fully meets our daily production needs, achieving fully recycled water for our production process. Both our natural water resources and treated recycled water meet the relevant national standards and can be extensively used for production, domestic and greening purposes.

Energy Management

Resources Utilisation

We aim to increase our operational recovery rates by selecting shallow hole retention and segmented room mining methods for mining, thereby maximising the efficiency of utilising proven iron ore and extending the life of the mine.

Energy Utilisation

We are deeply conscious of the key role that business plays in reducing global greenhouse gas emissions. We are therefore committed to reducing our own greenhouse gas emissions and encouraging our stakeholders to participate. Our main approaches to reducing GHG emissions are described below:

- We pre-screen the iron ore we mine to remove waste rock and reduce our mill throughput. Ore pre-sorting helps us to reduce our energy and electricity consumption, as well as our direct GHG emissions and air pollutants.
- We improved our processing steps to reduce the size of the ore fed into the mill by using more crushing and less grinding. This improvement also helps us to reduce energy and electricity consumption, with a corresponding reduction in greenhouse gas emissions, while the smaller ore size helps to improve the operational efficiency of the magnetic separation process and the quality of the final iron ore concentrate.
- As one of the first licensed green mines in China, we planted a large number of selected flora within the mine area, laying the groundwork for the implementation of carbon offsets to offset our greenhouse gas emissions. For more information on greening and afforestation, please refer to "Biodiversity and Land Use".

We are reducing the Group's emissions and energy consumption by setting the following directional targets:

- Maintaining (or reducing) the level of energy consumption compared to last year;
- Using cleaner fuels to replace conventional fossil fuels;
- Increasing the proportion of renewable energy used; and
- Optimising mining and iron ore processing processes to reduce electricity consumption.



Almond flowers white like clouds (Yangzhuang Iron Mine)

GHG Emissions ¹	Units	2024	2023
Direct GHG emissions (Scope 1)	Tonnes of CO ₂ e	689.71	1,087.793
Energy indirect GHG emissions (Scope 2)	Tonnes of CO ₂	6,695.47	12,659.084
Total	Tonnes of CO ₂ e	7,385.18	13,746.877
Total GHG emissions intensity (per tonne output)	Tonnes of CO ₂ e/tonnes	0.007	0.011
Energy indirect GHG emissions (Scope 2) Total	Tonnes of CO_2^{T}	6,695.47 7,385.18	12,659.08 13,746.87

Depending on the current type of energy consumption, we will consider the possibility of replacing part of our energy needs with renewable electricity (e.g. wind power). During the Reporting Year, the Group did not identify any major non-compliance incidents related to emissions.

¹ The scope of data does not include exploration and blasting works outsourced to our contractors.



Tree-lined road (Yangzhuang Iron Mine)

OTHER EMISSION

Air Pollutants

The suspended particles generated mainly from mining and open storage of ores, the plant implements regular water spraying measures to reduce dust. During the processing of ore-dressing, suspended particles are reduced by water spraying, and then emitted into the atmosphere after being dusted by dust removal towers, the emission concentration complies with the standards of the Law of the People's Republic of China on Prevention and Control of Air Pollution. Our owned vehicles, which are minimal in number and equipped with exhaust gas cleaning devices, produce minimal levels of SOX and NOX which are not disclosed at this stage. For exploration, blasting and mining work outsourced to contractors is also not disclosed in the Reporting Year.

Non-hazardous Emissions

Our non-hazardous emissions consist mainly of domestic waste.

We use waste rock from our mines for paving, tailings sand and tailings mud cake for cement production and land backfilling. These measures eliminate the need for tailings dams and significantly reduce the area of land occupied and the risk of dam breaks.

During the Reporting Year, the Board attended the training on "Paperless Listing and Subscription Mechanism, Online Document Display and Guidance Materials on Reducing the Types of Documents to be Displayed" which advocates the reduction of paper consumption. Therefore, the Report will continue to be published in electronic format, which will help to reduce resource consumption and waste generation.

We are committed to creating a low-waste environment and will minimise adverse environmental impacts by implementing the following targeted objectives:

- Upgrading raw materials from substandard products or wastes;
- Reusing raw materials from the mining process to reduce waste; and
- Maintaining (or reducing) the intensity of generation of non-hazardous waste compared to last year.



Due to our business nature, packaging materials are not a material issue to our operations. Therefore, we do not disclose them in the Report.

Biodiversity and Land Use

We recognise that mining activities can cause a certain degree of impact on the surface and local physical environment, which in turn may further influence its ecosystem. Without effective management measures, the local biotic environment may become unbalanced, causing irreversible environmental damages. Therefore, we focus on protecting the land and ecosystems through prevention, control, mitigation and compensation. In recent years, we have invested more than RMB12.2441 million in natural resource conservation and ecological construction, including resource conservation covering water and mineral resources.

- 100% green coverage of the greenable area;
- 100% of the recycled water treated in the tailings dry drainage system was utilised as production water during the Reporting Year;
- High recovery rate of magnetised iron, increasing the utilisation of mineral resources;
- Over 200,000 trees and other plants were actively planted;
- Geographical remediation and afforestation to Gong Dan Mountain, including slope preparation of about 9,500 m², crack treatment of about 1,280 metres, blasting of about 15,425 m³ of dangerous rocks, earth backfilling of about 3,900 m³, and grassland greening of about 10,479 m²; and
- Landscaping of the damaged hills on both sides of the highway will be carried out comprehensively afforested.

Case Study

For open-pit mines and tailings dams used prior to the establishment of the Group, we minimise the possibility of tailings dams collapsing by greening mining areas and cutting slopes, widening and stabilising tailings dams, as well as greening the tailings dams. With the witness of the local government and neighbouring communities, we achieved effective results in environmental management and eventually became one of the first batch of national green mines jointly certified by the Ministry of Land and Resources and China Mining Association, one of the five iron ore mines certified. In 2016, the Group was awarded the 2015 top 10 most influential green eco-environmental enterprises in Shandong Province.

During the Reporting Year, the Group promoted green mines and garden-style mine construction, in order to restore the ecosystem, we planted a large number of trees in the Yangzhuang iron ore mine area, and constructed the artificial lake attraction.





Mining Area Greening Achievements (Yangzhuang Iron Mine)

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ESG Reporting Guide Contents Index

KPIs	Description	Statement/Section	Page No.
Main Category (A)) Environmental		
Aspect A1: Emissio	ons		
General Disclosure	Information on: (a) the policies; and (b) compliance	Harmony With Environment	25
A1.1	The types of emissions and respective emissions data.	Harmony With Environment	32
A1.2	Total hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility).	Detailed data on hazardous and non-hazardous waste is not currently available, and relevant information is being collected for further disclosure.	N/A
A1.3	Total non-hazardous waste produced (in tonnes) and, where appropriate, intensity (e.g. per unit of production volume, per facility).	Detailed data on non-hazardous waste is not currently available, and relevant information is being collected for further disclosure.	34
A1.4	Description of emission target(s) set and steps taken to achieve them.	It is recommended to set quantifiable emission reduction targets with a clearly defined baseline year.	34
A1.5	Description of how hazardous and non- hazardous wastes are handled, and a description of reduction target(s) set and steps taken to achieve them.	No waste reduction targets have been set at this stage. Waste reduction initiatives have been disclosed. It is recommended to enhance the waste data collection system, and set waste reduction targets and steps.	34

KPIs	Description	Statement/Section	Page No.			
Aspect A2: Use of	Aspect A2: Use of Resources					
General Disclosure	Policies	Harmony With Environment	25			
A2.1	Direct and/or indirect energy consumption by type (e.g. electricity, gas or oil) in total (kWh in '000s) and intensity (e.g. per unit of production volume, per facility).	Harmony With Environment	26			
A2.2	Water consumption in total and intensity (e.g. per unit of production volume, per facility).	Harmony With Environment	26			
A2.3	Description of energy use efficiency target(s) set and steps taken to achieve them.	Harmony With Environment	31			
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.	Harmony With Environment	29			
A2.5	Total packaging material used for finished products (in tonnes) and, if applicable, with reference to per unit produced.	Due to our business nature, packaging materials are not a material issue to our operations. Therefore, we do not disclose them in the Report.	N/A			

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KPIs	Description	Statement/Section	Page No.
Aspect A3: The En	vironment and Natural Resources		
General Disclosure	Policies	Harmony With Environment	27
A3.1	Description of the significant impacts of activities on the environment and natural resources and the actions taken to manage them.	Harmony With Environment	27
Aspect A4: Climate	e Change		
General Disclosure	Policies	Harmony With People	24
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.	Harmony With People	24
Main Category (B)	Social		
Aspect B1: Employ	vment		
General Disclosure	Information on: (a) the policies; and (b) compliance	Harmony With People	16
B1.1	Total workforce by gender, employment type (for example, full – or part-time), age group and geographical region.	Harmony With People	19
B1.2	Employee turnover rate by gender, age group and geographical region.	Harmony With People	20

KPIs	Description	Statement/Section	Page No.
Aspect B2: Health	and Safety		
General Disclosure	Information on: (a) the policies; and (b) compliance	Harmony With People	14
B2.1	Number and rate of work-related fatalities occurred in the past three years including the reporting year.	Harmony With People	14
B2.2	Lost days due to work injury.	Harmony With People	14
B2.3	Description of occupational health and safety measures adopted, and how they are implemented and monitored.	Harmony With People	15
Aspect B3: Develo	pment and Training		
General Disclosure	Policies	Internal and External Governance	20
<i>B3.1</i>	The percentage of employees trained by gender and employee category (e.g. senior management, middle management).	Internal and External Governance	22
<i>B3.2</i>	The average training hours completed per employee by gender and employee category.	Internal and External Governance	22
Aspect B4: Labour	Standards		
General Disclosure	Information on: (a) the policies; and (b) compliance	Internal and External Governance	16
B4.1	Description of measures to review employment practices to avoid child and forced labour.	Internal and External Governance	16
B4.2	Description of steps taken to eliminate such practices when discovered.	Internal and External Governance	16

KPIs	Description	Statement/Section	Page No.
Aspect B5: Supply	Chain Management		
General Disclosure	Policies	Internal and External Governance	10
<i>B5.1</i>	Number of suppliers by geographical region.	Internal and External Governance	10
<i>B5.2</i>	Description of practices relating to engaging suppliers, number of suppliers where the practices are being implemented, and how they are implemented and monitored.	Internal and External Governance	10
<i>B5.3</i>	Description of practices used to identify environmental and social risks along the supply chain, and how they are implemented and monitored.	Internal and External Governance	10
<i>B5.4</i>	Description of practices used to promote environmentally preferable products and services when selecting suppliers, and how they are implemented and monitored.	Internal and External Governance	10
Aspect B6: Product	t Responsibility		
General Disclosure	Information on: (a) the policies; and (b) compliance	Internal and External Governance	11
B6.1	Percentage of total products sold or shipped subject to recalls for safety and health reasons.	Internal and External Governance	11
<i>B6.2</i>	Number of products and service related complaints received and how they are dealt with.	Internal and External Governance	11
B6.3	Description of practices relating to observing and protecting intellectual property rights.	Internal and External Governance	12
<i>B6.4</i>	Description of quality assurance process and recall procedures.	Internal and External Governance	11
B6.5	Description of consumer data protection and privacy policies, and how they are implemented and monitored.	Internal and External Governance	13

KPIs	Description	Statement/Section	Page No.
Aspect B7: A	Anti-corruption		
<i>B7.1</i>	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.	Internal and External Governance	9
<i>B7.2</i>	Description of preventive measures and whistle-blowing procedures, and how they are implemented and monitored.	Internal and External Governance	9
<i>B7.3</i>	Description of anti-corruption training provided to directors and staff.	Internal and External Governance	9
Aspect B8: 0	Community Investment		
<i>B8.1</i>	Focus areas of contribution (e.g. education, environmental concerns, labour needs, health, culture, sport).	Harmony With People	23
B8.2	Resources contributed (e.g. money or time) to the focus area.	Detailed data on community investment is not currently available, and relevant information is being collected for further disclosure.	23